NEW YORK STATE OF OPPORTUNITY. | NY Power Authority | Canal Corporation

MINUTES OF THE ANNUAL JOINT MEETING
OF THE
POWER AUTHORITY OF THE STATE OF NEW YORK AND
NEW YORK STATE CANAL CORPORATION

March 26, 2019

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March 26, 2019

Minutes of the annual joint meeting of the New York Power Authority and Canal Corporation held at the Clarence D. Rappleyea Building at 123 Main Street, White Plains, New York at approximately 10:06 a.m.

Members of the Boards present were:

John R. Koelmel, Chairman
Eugene L. Nicandri, Vice Chairman
Dr. Anne M. Kress
Anthony J. Picente, Jr.
Michael A.L. Balboni
Dennis G. Trainor

Tracy McKibben - Excused

Gil Quiniones	President and Chief Executive Officer
Justin Driscoll	Executive Vice President and General Counsel
Joseph Kessler	Executive Vice President and Chief Operating Officer
Robert Lurie	Executive Vice President and Chief Financial Officer
Kristine Pizzo	Executive Vice President and Chief Human Resources & Administrative Officer
Sarah Salati	Executive Vice President and Chief Commercial Officer
Lee Garza	Senior Vice President – Financial Operations & Acting Controller
Angela Gonzalez	Senior Vice President – Internal Audit
Kimberly Harriman	Senior Vice President Public & Regulatory Affairs
Robert Piascik	Senior Vice President and Chief Information Officer
Soubhagya Parija	Senior Vice President and Chief Risk Officer
Karen Delince	Vice President and Corporate Secretary
John Canale	Vice President – Strategic Supply Management
Kenneth Carnes	Vice President – Critical Secure Services and CISO
Ruth Colon	Vice President – Enterprise Shared Services
Keith Hayes	Vice President – Economic Development
Patricia Lombardi	Vice President – Project Management
Daniella Piper	Vice President – Digital Transformation Office / Acting Chief of Staff
Ethan Riegelhaupt	Vice President – Corporate Communications
Scott Tetenman	Vice President – Finance
Susan Craig	Director – Media Relations
Mary Cahill	Manager – Executive Office
Gerard McLoughlin	Manager – Business Power Allocations & Compliance
Benjamin Miga	Deputy Treasurer
Michael Tarney	Senior Investment Manager – Treasury
Carley Hume	Strategy Project Manager – Strategy Planning & Delivery
Matthew Lichtash	Electric Transportation Analyst – Strategy Planning & Delivery
Philip Kamrass	Communications Specialist I – Photography Services
Lorna Johnson	Senior Associate Corporate Secretary
Sheila Quatrocci	Associate Corporate Secretary
Megan Bertino	Staff Attorney – CTI Towers
	Intern

Chairman Koelmel presided over the meeting. Corporate Secretary Delince kept the Minutes.

Introduction

Chairman Koelmel welcomed the Board and staff members who were present at the meeting. He said that the meeting had been duly noticed as required by the Open Meetings Law and called the meeting to order pursuant to the Authority's Bylaws, Article III, Section 3.

1. Adoption of the March 26, 2019 Proposed Meeting Agenda

Upon motion made by Vice Chairman Nicandri and seconded by member Dennis Trainor, the meeting Agenda was adopted, as amended.

Conflicts of Interest

Chairman Koelmel, Vice Chairman Nicandri and members Picente, Balboni and Trainor declared no conflicts of interest based on the list of entities previously provided for their review.

Member Anne Kress declared a conflict of interest as indicated below and said she would not participate in the discussion or vote as it relates to that matter.

- *Bergmann Associates, Architects, Engineers, Landscape Architects & Surveyors, DPC (#4i iii)*

2. Motion to Conduct an Executive Session

"Mr. Chairman, I move that the Board conduct an Executive Session to discuss the financial and credit history of a particular corporation." On motion made by member Michael Balboni and seconded by member Anthony Picente, the members held an executive session.

3. Motion to Resume Meeting in Open Session

"Mr. Chairman, I move to resume the meeting in Open Session." On motion made by Vice Chairman Nicandri and seconded by member Anne Kress, the meeting resumed in Open Session.

Chairman Koelmel said that no votes were taken during the Executive Session.

4. CONSENT AGENDA:

On motion made by member Michael Balboni and seconded by member Anne Kress, the Consent Agenda was approved.

a. Governance Matters:

i. **Approval of the Minutes**

The Minutes of the Regular Joint Meeting of the New York Power Authority's Trustees and Canal Corporation's Board of Directors held on January 30, 2019 were unanimously adopted.

ii. **Appointment of Acting Executive Vice President and Chief Financial Officer**

The Chair of the Governance Committee submitted the following report:

"SUMMARY

The Trustees and the Canal Corporation Board of Directors are requested to consider the appointment of Lee Garza as Acting Executive Vice President and Chief Financial Officer of the Authority and Canal Corporation effective May 1, 2019.

BACKGROUND & DISCUSSION

The appointment of acting officers is governed by the Bylaws, Article IV, Section 4, which provides that the Trustees/Board of Directors may fill officer positions with an acting or interim appointment until such time as a permanent replacement is appointed.

RECOMMENDATION

It is recommended by the Governance Committee that the Authority's Trustees and the Canal Corporation's Board of Directors appoint Lee Garza as Acting Executive Vice President and Chief Financial Officer, effective May 1, 2019, to hold such office until a permanent replacement is appointed.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the Chair of the Governance Committee, was unanimously adopted.

RESOLVED, That pursuant to Article IV, Section 4 of the Authority and Canal Corporation's Bylaws, Lee Garza is hereby appointed as Acting Executive Vice President and Chief Financial Officer, effective May 1, 2019 to hold such office until a permanent replacement is appointed.

b. Power Allocations

i. **Extension of the Industrial Incentive Award to Pratt Paper (NY), Inc. and Economic Development Plan**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to:

1) approve an extension, from June 1, 2019 to May 31, 2020, of the Economic Development Plan ('Plan') covering the use of net revenues produced by the sale of Expansion Power ('EP') to provide electric bill discounts in the form of Industrial Incentive Awards to manufacturing companies located in New York State that are at risk of closure or relocation to another state;

2) authorize submission to the Economic Development Power Allocation Board ('EDPAB') of a request to approve such extension; and

3) approve a one-year extension, from June 1, 2019 to May 31, 2020, of the term of the Industrial Incentive Award ('IIA') previously awarded to Pratt Paper (NY), Inc. ('Pratt') in the amount of up to $1 million in connection with its Staten Island operations, contingent upon EDPAB's approval of an extension of the Plan.

BACKGROUND

Public Authorities Law ('PAL') §1005 (eighth unnumbered paragraph) directs the Authority to identify 'net revenues' produced by the sale of EP and, further, to identify an amount of such net revenues that will be used solely for IIAs. The Authority is directed in Section 1005 to identify net revenues available for IIAs no less often than annually. Net revenues are defined by PAL §1005 as any excess of revenues properly allocated to the sales of EP over costs and expenses properly allocated to such sales.

IIAs are to be made in conformance with an economic development plan covering all such 'net revenues.' The Authority submits a plan to EDPAB pursuant to Economic Development Law ('EDL') §188, which also provides for EDPAB's approval of the Plan upon its determination that such Plan is consistent with, among other things, the economic development criteria provided for in EDL §§ 184 and 185 that evaluate applications for certain power.

At its October 26, 2009 meeting, EDPAB approved an Economic Development Plan that allows the use of net revenues from the sale of EP for the calendar years of 2008 up through and including 2016 to provide electric bill discounts to manufacturing companies located in New York State that are at identifiable risk of closing or relocating to another state. EDPAB subsequently approved an extension to the Plan allowing the use of net revenues from the sale of EP through May 31, 2018.

At its May 21, 2013 meeting, the Trustees authorized an IIA to Pratt upon determining that Pratt had demonstrated that it meets the qualifying criteria for an IIA and after careful consideration of Pratt's business case. The Trustees approved an annual amount of up to $1 million per year for up to five (5) years.

Pratt operates a paper mill, a corrugated box factory and a sorting facility in Staten Island within Consolidated Edison's service territory. Manufacturing processes represent a substantial portion of Pratt's total electricity consumption, and energy costs are a primary consideration for the economic viability of the plant. Pratt's IIA, in the form of a cents per kWh price discount applied to a level of annual electric consumption, was approved subject to, among other appropriate terms and conditions:

- Reevaluation and reduction should Pratt's electric rates decline during the term of the IIA.
- The availability of EP net revenue funding for IIAs, which is in NYPA's sole discretion.
- Appropriate determination(s) by the Trustees that the funding of IIAs in any fiscal year will not have a significant impact on the Authority's finances.
- A reduction in the amount of the IIA if Pratt does not meet agreed-upon job commitments (256 full time employees) at the Staten Island facility.
- An agreement providing for the IIA and which address these and other appropriate terms and conditions in a form satisfactory to the Authority.

The Authority executed an agreement with Pratt ('Agreement') providing for the terms and conditions applicable to the Pratt IIA. The Agreement provided for an initial one-year term for the IIA and an extension of the IIA for four subsequent one-year terms at the Authority's discretion subject to conditions specified in the Agreement. As approved by the Trustees and in accordance with the Agreement, Pratt was eligible to receive up to $1 million for each year and has received $1 million for each year of the IIA for a total of $5 million.

At the completion of each annual term, a compliance review and due diligence was performed on the terms and conditions of the Agreement prior to offering each subsequent annual term. Pratt has been compliant for each annual term, including employing an average of 256 persons at its facility during the fifth annual term ending May 31, 2018, and, most recently, reporting 283 employees as of August 2018.

In May 2018, Pratt requested an extension of the IIA based on the continued need for electricity cost relief and other factors in its business case. Upon review, staff determined that Pratt continued to meet the IIA requirements of being a manufacturing company at risk of closing or curtailing operations. The Authority and Pratt reached agreement on an offer to extend the IIA for one year contingent upon necessary Trustee and EDPAB approvals. On October 2, 2018, the Trustees approved both extending the Plan for one year and providing up to $1 million of IIA funds to Pratt from June 1, 2018 to May 31, 2019. At its December 10, 2018 meeting, EDPAB approved extension of the Plan to support an additional year of IIA funds to Pratt through May 31, 2019.

DISCUSSION

On January 16, 2019, Pratt submitted a request for an extension of the IIA beyond May 31, 2019. Upon review of Pratt's current business case, staff determined that Pratt continues to meet the IIA requirements of being a manufacturing company at risk of closing or curtailing operations, and continues to be negatively impacted by high electricity costs within Consolidated Edison's service territory which threatens the economic viability of operations at its Staten Island facility.

Pratt further stated that it is anticipating electricity price increases in the near term based upon review of forward market prices. The company also cited both higher utility taxes and recent unexpected significant increases in delivery costs of natural gas as making the Staten Island plant less competitive than its facilities in other states, further jeopardizing its successful operations in New York.

An extension of the IIA would support Pratt's ability to maintain the committed employment level of 256 jobs at its facility.

Accordingly, the Trustees are requested to:

1) approve an extension, from June 1, 2019 to May 31, 2020, of the Plan covering the use of net revenues produced by the sale of EP to provide electric bill discounts in the form of an IIAs to manufacturing companies located in New York State that are at risk of closure or relocation to another state;

2) authorize submission to EDPAB of a request to approve an extension, from June 1, 2019 to May 31, 2020, of the Plan; and

3) approve a one-year extension, from June 1, 2019 to May 31, 2020, of the term of the IIA previously awarded to Pratt in the amount of up to $1 million in connection with its Staten Island operations, contingent upon EDPAB's extension of the Plan as described above.

FISCAL INFORMATION

IIAs awards may only be paid out if sufficient net revenues are produced by the sale of EP. Given that such net revenues and associated awards are anticipated in each year's budget, extension of the Plan from June 1, 2019 through May 31, 2020 to accommodate an additional year of IIA benefits will not have a significant impact on the Authority's finances.

RECOMMENDATION

The Vice President – Economic Development recommends that the Trustees

1) approve an extension, from June 1, 2019 to May 31, 2020, of the Economic Development Plan ('Plan') covering the use of net revenues produced by the sale of Expansion Power to provide electric bill discounts in the form of Industrial Incentive Awards ('IIAs') to manufacturing companies located in New York State that are at risk of closure or relocation to another state;

2) authorize submission to the Economic Development Power Allocation Board ('EDPAB') of a request to approve an extension, from June 1, 2019 to May 31, 2020, of the Plan; and

3) approve a one-year extension, from June 1, 2019 to May 31, 2020, of the term of the IIA previously awarded to Pratt Paper (NY), Inc. in the amount of up to $1 million in connection with its Staten Island operations, contingent upon EDPAB's extension of the Plan as described above.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That the Authority hereby approves an extension to the Economic Development Plan ("Plan") covering the use of net revenues produced by the sale of Expansion Power to provide electric bill discounts to manufacturers in the form of an Industrial Incentive Award ("IIA") to May 31, 2020, as described in the foregoing report of the President and Chief Executive Officer; and be it further

RESOLVED, That the Authority is authorized to submit the Plan, as modified, to the Economic Development Power Allocation Board ("EDPAB") to request its approval; and be it further

RESOLVED, That the Authority hereby approves an extension to the term of the IIA previously awarded to Pratt Paper (NY), Inc. to May 31, 2020, as described in the foregoing report of the President and Chief Executive

Officer, contingent upon EDPAB's approval of the requested extension of the Plan; and be it further

RESOLVED, That the Chairman, the Vice Chair, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

ii. **Transfer of Recharge New York Power, Expansion Power and High Load Factor Power**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to approve the transfer of the following power allocations awarded by the New York Power Authority ('Authority'):

1. Transfer of a 17,600 kilowatt ('kW') High Load Factor Power ('HLF') allocation awarded to Air Products and Chemicals, Inc. ('Air Products') for use at its 461 River Road, Glenmont, New York facilities, to East Coast Nitrogen Company LLC ('ECNC'), in order to address organizational changes.

2. Transfer of a 7,700 kW portion of a 15,750 kW HLF allocation awarded to Messer LLC ('Messer'), formerly known as Linde LLC, for use at its 76 West Yard Road, Feura Bush, New York facilities, to ECNC in order to address organizational changes.

3. Transfer of a 2,070 kW Recharge New York ('RNY') Power allocation awarded to Cascades New York, Inc. ('CNY') for use at its 510 South Main Street, Mechanicville, New York facilities to Cascades Holding US Inc. ('CHUS') in order to address organizational changes.

4. Transfer of a 2,990 kW RNY Power allocation and 1,600 kW Expansion Power ('EP') allocation awarded to Norampac Industries, Inc. ('Norampac') for use at its 4001 Packard Road, Niagara Falls, New York facilities, to CHUS in order to address organizational changes.

The Economic Development Power Allocation Board ('EDPAB'), at its March 4, 2019 meeting, approved the transfer of the RNY Power allocations. Transfers of RNY Power are subject to EDPAB review and approval.

The Trustees have previously approved transfers of Authority power allocations in similar circumstances.

DISCUSSION

The following discussion describes the facts relating to the recommended transfers.

1) East Coast Nitrogen Company LLC

Air Products manufactures nitrogen, oxygen and argon gases. It was awarded a 17,600 kW HLF allocation for use at its 461 River Road, Glenmont, New York facility.

Messer separates air and manufactures liquid nitrogen, liquid oxygen and liquid argon at its facility located at 76 West Yard Road, Feura Bush, New York. Messer has a 15,750 kW HLF allocation for use at this location.

ECNC is a joint venture that has been formed by Air Products and Messer. ECNC's new facilities are located at the same location as Air Products' Glenmont facility, and will manufacture nitrogen and oxygen.

In connection with the joint venture, the parties request that Air Products' 17,600 kW HLF allocation, and a 7,700 kW portion of Messer's HLF allocation, be transferred to ECNC for its use by ECNC at its Glenmont, New York facilities. Neither the Air Products nor the Messer allocations have a firm term, and neither allocation has capital investment and employment commitments associated with it.

In exchange for the proposed transfers, ECNC will commit to, among other things, a ten- year term, with an employment commitment of 66 jobs and a capital investment commitment of $45 million. Air Products will cease manufacturing operations at its Glenmont facilities.

2) Cascades New York, Inc.

CNY was awarded a 2,070 kW RNY Power allocation for use at its facilities at 510 South Main Street, Mechanicville, New York, where the company operates as Cascades Tissue Group – Mechanicville, a division of CNY. This facility hosts a paper machine business, where the company produces packaging and tissue products comprised mainly of recycled materials.

The company merged into its affiliate, CHUS and the Mechanicville location is now operated as Cascades Tissue Group – Mechanicville, a division of CHUS.

In light of the merger, the companies have asked that the 2,070 kW RNY Power allocation be transferred to CHUS. The merger will not result in changes to operations at the Mechanicville facility, and CHUS has indicated that it will honor all terms and commitments made by CNY under its RNY Power sale agreement with the Authority if the transfer is approved.

3) Norampac Industries Inc.

Norampac has a 2,990 kW RNY Power allocation and 1,600 kW EP allocation for use at its facility in Niagara Falls, New York. This facility manufactures corrugated medium from new and recycled fibers. Like CNY, Norampac merged into CHUS, also an affiliate, and this location is now operated as Cascades Containerboard Packaging – Niagara Falls, a division of CHUS.

In light of the merger, the companies have asked that the 2,990 kW RNY Power allocation and 1,600 kW EP allocation be transferred to CHUS. The merger will not result in changes to operations at the facility and CHUS has indicated it will honor all terms and commitments made by Norampac under its RNY Power and EP sales agreements with the Authority.

RECOMMENDATION

Staff recommends that the Trustees approve the transfers discussed above, subject to: (1) the commitments by the proposed transferees described above; and (2) the transfers are addressed in contract documents containing such terms and conditions determined by the Authority to be appropriate to effectuate each transfer.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That the transfer of the 17,600 kilowatt ("kW") High Load Factor Power ("HLF") allocation awarded to Air Products and Chemicals, Inc., for use at its facilities at 461 River Road, Glenmont, New York, to East Coast Nitrogen Company LLC ("ECNC"), for use at the same location, as described in the foregoing report of the President and Chief Executive Officer ("Report") be, and hereby is, approved subject to (i) such terms and conditions as are set forth in the foregoing report, and (ii) such terms and conditions as are required by the Authority in contract

documents prepared by the Authority in order to effectuate the transfer; and be it further

RESOLVED, That the transfer of a 7,700 kW portion of a 15,750 kW HLF Power allocation awarded to Messer LLC, for use at its facilities located at 76 West Yard Road, Feura Bush, New York to ECNC, for use at its facilities at 461 River Road, Glenmont, New York, as described in the foregoing report be, and hereby is, approved subject to (i) such terms and conditions as are set forth in the foregoing report, and (ii) such terms and conditions as are required by the Authority in contract documents prepared by the Authority in order to effectuate the transfer and the reallocation/apportionment of the Messer LLC allocation between the respective facilities; and be it further

RESOLVED, That the transfer of the 2,070 kW Recharge New York ("RNY") Power allocation awarded to Cascades New York, Inc. for its use at its facility at 510 South Main Street, Mechanicville, New York, to Cascades Holding US Inc. ("CHUS"), for use at the same facility, as described in the foregoing report be, and hereby is, approved subject to (i) such terms and conditions as are set forth in the foregoing report, and (ii) such terms and conditions as are contained in contract documents prepared by the Authority to effectuate the transfer, and be it further

RESOLVED, That the transfer of the 2,990 kW RNY Power allocation and 1,600 kW Expansion Power allocation awarded to Norampac Industries Inc. for use at its facility at 4001 Packard Road, Niagara Falls, New York, to CHUS for use at the same facility, as described in the foregoing report be, and hereby is, approved subject to (i) such terms and conditions as are set forth in the foregoing report, and (ii) such terms and conditions as are contained in contract documents prepared by the Authority to effectuate the transfer; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

iii. **Recharge New York Power – Revised Contract Form**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to:

1. Approve the revised form of contract ('Revised Contract Form') that is attached hereto as Exhibit '4b iii-A' for use in the Recharge New York ('RNY') Power program. The Revised Contract Form would replace the contract form that the Trustees approved on October 2, 2018 for use in the RNY Power program for the sale of RNY Power allocations awarded or extended on or after October 2, 2018.

2. Determine that the Revised Contract Form, in a final form substantially similar to that attached as Exhibit '4b iii-A,' with existing Authority Service Tariff No. RNY-1 ('ST RNY-1'), will apply to the sale of RNY Power allocations that are awarded or extended on or after October 2, 2018.

DISCUSSION

Last year, staff developed a revised form of contract for the sale of RNY Power. The purpose of this exercise was to, among other things, revise the terms and conditions of the contract based on the Authority's experience with implementing the RNY Program over several years; and (2) include terms and conditions that would enhance the Authority's ability to administer the RNY Power program in a manner that is consistent with the State Energy Plan ('SEP'), including the State's Clean Energy Standard ('CES'), and recover its compliance costs from RNY customers whose load is served under the RNY Power program.

At their meeting on October 2, 2018, the Trustees approved the form of contract proposed by staff, and approved the use of that contract form for the sale of RNY Power allocation awarded or extended after October 2, 2018 (the **'**October 2 Contract Form**'**). On the same day, the Trustees authorized the Authority to take further actions to establish and implement comprehensive compliance programs for each of the Authority's power supply programs for which the Authority serves as load serving entity, for the purpose of implementing the Authority's power supply programs, including the Expansion Power, Replacement Power, Preservation Power, RNY Power, and the Authority's governmental power supply programs, in a manner that the Authority determines to be consistent with the policies and long-term planning objectives of the SEP and the CES.

In connection with the implementation of such compliance programs, the October 2 Contract Form included two charges, a monthly Zero Emission Credit Charge and Renewable Energy Charge (set forth in Schedule D and Schedule E, respectively), to enable the Authority to recover costs it incurs in connection with compliance with the SEP and CES for the load that the Authority serves under the RNY Power program.

The modifications to the October 2 Contract Form that have resulted in the Revised Contract Form may be summarized as follows:

- Non-substantive changes were made to address some formatting issues.

- Changes were made to Schedule A in order to clarify the instructions for completing Schedule A.

- Two separate charges – the Zero Emission Credit Charge and the Monthly Renewable Energy Charges that were contained in Schedules D and E – have been eliminated in lieu of a single 'Monthly Clean Energy Implementation Charge.' The Monthly Clean Energy Implementation Charge is described in Schedule D of the Revised Contract Form. This revised approach is

intended to provide additional transparency and simplify cost recovery related to the Authority's compliance with any applicable state energy standards as concerns the RNY Power program. It is also expected that the new approach reflected in Schedule D will better accommodate the use of energy credits like renewable energy credits through self-supply mechanisms, such as Authority-financed wind projects by way of example, and cost recovery related thereto.

In addition to approving the Revised Contract Form, staff is also requesting that the Trustees determine that the Revised Contract Form, in a final form substantially similar to that attached as Exhibit '4b iii-A,' along with existing Authority Tariff ST RNY-1, will apply to the sale of RNY Power allocations that are awarded or extended on or after October 2, 2018.

The October 2 Contract Form has not been distributed to customers for execution, and therefore use of the Revised Contract Form will not cause any disruptions in the administration of the RNY Power program.

RECOMMENDATION

The Vice President, Economic Development recommends that the Trustees:

1. Approve the Revised Contract Form that is attached hereto as Exhibit '4b iii-A' for use in the RNY Power program, in place of the October 2 Contract Form previously approved.

2. Determine that the Revised Contract Form, in a final form substantially similar to that attached as Exhibit '4b iii-A,' with existing Authority Tariff ST RNY-1, will apply to the sale of RNY Power allocations that are awarded or extended on or after October 2, 2018.*

For the reasons stated, I recommend the approval of the above-requested action by adoption the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That the Trustees hereby approve the revised contract form that is attached hereto as Exhibit "4b iii-A" ("Revised Contract Form") for use in the Recharge New York ("RNY") Power program, in place of the contract form that was approved on October 2, 2018; and be it further

RESOLVED, That the Trustees hereby determine that the Revised Contract Form, in a final form substantially similar to that attached as Exhibit "4b iii-A," with existing Authority Tariff ST RNY-1, will apply to the sale of RNY Power allocations that are awarded or extended on or after October 2, 2018; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any

* The Revised Contract Form will need to be populated with customer-specific information, including the customer's supplemental commitments. This exercise and the task of finalizing the Revised Contract Form and preparing it for execution, may necessitate other modification to the Revised Contract Form. Staff expects that the final, execution version of the Revised Contract Form will be substantially similar to the form attached as Exhibit '4b iii-A.'

and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

c. Energy Efficiency:

i. **Operations and Maintenance Program for Outdoor Lighting – Authorization for Program**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to authorize the inclusion of an Operation and Maintenance Program for Outdoor Lighting ('O&M Program') as part of the Authority's Energy Services Program ('ESP'). The O&M Program will complement the Governor's Smart Street Lighting NY initiative by providing maintenance of LED outdoor light fixtures installed through ESP. The O&M Program will be available to the Authority's Governmental or Statewide Energy Efficiency Program customers participating in the Smart Street Lighting NY initiative. Customers will be charged a fee to participate in the O&M Program.

BACKGROUND

Public Authorities Law 1005 (17) authorizes the Authority to finance and design, develop, construct, implement, provide, and administer energy-related projects, programs and services for any public entity, any independent not-for-profit institution of higher education within the state, and any recipient of the economic development power, expansion power, replacement power, preservation power, high load factor power, municipal distribution agency power, power for jobs, and recharge New York power programs administered by the Authority.

In 2018, the Governor launched Smart Street Lighting NY, which sets the goal of converting 500,000 streetlights to LED technology by 2025. This initiative focuses on dramatically reducing electricity consumption and greenhouse gas production, while meeting the State's ambitious goals of a 40 percent reduction in emissions by 2030. As municipalities statewide begin to convert their outdoor lighting to LED technology, periodic maintenance may be required to ensure a fully functioning system. However, municipalities may not have the staff or expertise to maintain the systems. The proposed program fills that void.

DISCUSSION

ESP provides energy efficiency and renewable energy services to program participants statewide. As part of the ESP, the Authority has supported program participants with converting outdoor lighting to LED technology. Many municipalities converting their outdoor lights to LED technology must first purchase the lighting systems from the utility. When the municipality purchases the equipment it also assumes responsibility for equipment maintenance. Maintaining LED outdoor lights is an operational challenge. Street lighting system ownership is new to most municipalities and they may not have the staff or expertise to maintain the equipment. The Authority is creating the O&M Program to address this need. Through the O&M Program, the Authority can enter into term maintenance agreements to service the outdoor lights.

Although failures are uncommon with LED technology, there is sensor technology available that monitors the on/off status of each streetlight and communicates this data through cell towers or radio frequencies to a central location. These state-of-the-art advanced controls can be used to monitor streetlight performance across the State. This will make most of the administrative process completely digital and enable rapid response times to system outages.

The Authority will secure LED technology maintenance firms following the Authority's Procurement Guidelines to implement the O&M Program. The O&M Program will provide a full range of lighting equipment maintenance services (e.g. replacing poles, arms, wiring or the entire fixture) regardless of the source of the problem (e.g., weather, traffic accidents, manufacturer defects, and/or age). The O&M

Program provides customers that own their outdoor lighting systems a reliable way to maintain streetlights without adding staff and equipment to their operations. Information about how the program will be operationalized will be summarized in any implementation contract award resolution.

FISCAL INFORMATION

The funding for this contract will be provided from the Authority's operating funds and/or from the proceeds of the Authority's Commercial Paper Notes or other financing instruments, as deemed appropriate. In addition, projects may be funded, in part, with monies from POCR funds. All Authority costs, including Authority overheads and the costs of advancing funds, but excluding the POCR and other non-Authority grants as applicable, will be recovered. The program will be available to Authority customers participating in the Smart Street Light NY program.

RECOMMENDATION

The Vice President – Clean Energy Business and Market Development, and the Vice President – Energy Efficiency recommend that the Trustees approve inclusion of the Operations and Maintenance Program for Outdoor Lighting as part of the Energy Services Program.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED That the Trustees hereby authorize the Operation and Maintenance Program for Outdoor Lighting as part of the Authority's Energy Services Program consistent with Public Authorities Law 1005 (17); and be it further

RESOLVED, That the Trustee authorize the President and Chief Executive Officer, the Chief Operating Officer, the Chief Commercial Officer, the Vice President – Clean Energy Business and Market Development, and or such officer designated by the President and Chief Executive Officer, to execute agreements and other documents between the Authority, the Governmental Customers Energy Efficiency Program ("GCEEP") and the Statewide Energy Efficiency Program ("Statewide EEP") participants and to execute agreements and other documents with contractors, such agreements having such terms and conditions as the executing officer may approve, subject to the approval of the form thereof by the Executive Vice President and General Counsel, to facilitate the implementation of the GCEEP and Statewide EEP; and be it further

RESOLVED, That the Vice President – Clean Energy Business and Market Development and the Vice President – Energy Efficiency are authorized to determine which projects will be deemed to be projects within the meaning of Section (7) of Part P of Chapter 84 of the Laws of 2002 (the "Section (7) POCR Legislation") to be funded, in part, with Petroleum Overcharge Restitution ("POCR") Funds

allocated pursuant to the Section (7) POCR Legislation; and be it further

RESOLVED, That POCR funds allocated to the Authority by the Section (7) POCR Legislation may be used to the extent authorized by such legislation, in such amounts as may be deemed necessary or desirable by the Chief Commercial Officer, Vice President for Clean Energy Business and Market Development, and Vice President – Energy Efficiency to finance projects within both Energy Services Programs; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

d. Procurement (Services) Contracts:

i. **Procurement (Services) Contracts –**
Business Units and Facilities –
Awards, Extensions and/or Additional Funding

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to approve the award and funding of the multiyear procurement (services) contracts listed in Exhibit '4d i-A,' as well as the continuation and/or funding of the procurement (services) and other contracts listed in Exhibit '4d i-B,' in support of projects and programs for the Authority's Business Units/Departments and Facilities. Detailed explanations of the recommended awards and extensions, including the nature of such services, the bases for the new awards if other than to the lowest-priced, lowest total cost of ownership or 'best valued' bidders and the intended duration of such contracts, or the reasons for extension and the projected expiration dates, are set forth in the discussion below.

BACKGROUND

Section 2879 of the Public Authorities Law and the Authority's Guidelines for Procurement Contracts require the Trustees' approval for procurement contracts involving services to be rendered for a period in excess of one year.

The Authority's current Expenditure Authorization Procedures ('EAPs') require the Trustees' approval for the award of non-personal services, construction, equipment purchase or non-procurement contracts in excess of $6 million, as well as personal services contracts in excess of $2 million if low bidder or best value, or $1 million if sole-source, single-source or other non-competitive award.

The Authority's current EAPs also require the Trustees' approval when the cumulative change order value of a personal services contract exceeds $500,000, or when the cumulative change order value of a non-personal services, construction, equipment purchase, or non-procurement contract exceeds the greater of $6 million or 25% of the originally approved contract amount not to exceed $6 million.

DISCUSSION

Awards

The Trustees are requested to approve the award and funding of the multiyear procurement (services) contracts listed in Exhibit '4d i-A,' where the EAPs require approval based upon contract value or the terms of the contracts will be more than one year. Except as noted, all of these contracts contain provisions allowing the Authority to terminate the services for the Authority's convenience, without liability other than paying for acceptable services rendered to the effective date of termination. Approval is also requested for funding all contracts, which range in estimated dollar value from $250,000 to $9.5 million. Except as noted, these contract awards do not obligate the Authority to a specific level of personnel resources or expenditures.

The issuance of multiyear contracts is recommended from both cost and efficiency standpoints. In many cases, reduced prices can be negotiated for these long-term contracts. Since these services are typically required on a continuous basis, it is more efficient to award long-term contracts than to rebid these services annually.

Extensions

Although the firms identified in Exhibit '4d i-B' have provided effective services, the issues or projects requiring these services have not been resolved or completed and the need exists for continuing these contracts. The Trustees' approval is required because the terms of these contracts will exceed one year including the extension, the term of extension of these contracts will exceed one year and/or because the cumulative change-order limits will exceed the levels authorized by the EAPs in forthcoming change orders. The subject contracts contain provisions allowing the Authority to terminate the services at the Authority's convenience, without liability other than paying for acceptable services rendered to the effective date of termination. These contract extensions do not obligate the Authority to a specific level of personnel resources or expenditures.

Extension of the contracts identified in Exhibit '4d i-B' is requested for one or more of the following reasons: (1) additional time is required to complete the current contractual work scope or additional services related to the original work scope; (2) to accommodate an Authority or external regulatory agency schedule change that has delayed, reprioritized or otherwise suspended required services; (3) the original consultant is uniquely qualified to perform services and/or continue its presence and rebidding would not be practical or (4) the contractor provides proprietary technology or specialized equipment, at reasonable negotiated rates, that the Authority needs to continue until a permanent system is put in place.

The following is a detailed summary of each recommended contract award and extension.

Contract Awards in Support of Business Units/Departments and Facilities:

Commercial Operations – Business Development

The proposed personal services contracts with **AECOM USA, Inc. ('AECOM'), Burns & McDonnell Engineering Company, Inc. ('Burns'), The Louis Berger Group (Domestic), Inc. ('Louis'), SNC Ltd. ('SNC'), Tetra Tech, Inc. ('Tetra') and TRC Engineers, Inc. ('TRC') (Q18-6517JGM)** would provide consulting services in developing, licensing, permitting and implementing compliance both during and after construction. NYPA is undertaking many initiatives to replace and upgrade its aging assets and introduce innovative new technologies to transform how these assets are managed. Additionally, NYPA is pursuing numerous opportunities to help New York State reach the goals of the Clean Energy Standard, which mandates that 50% of all electricity consumed in the state comes from renewable energy sources by 2030. To support these initiatives, NYPA is retaining consultants that will assist in the licensing/permitting of current and future transmission and generation projects. Bid documents were developed by staff and were accessible through the NYPA.gov site. The Request for Quotations was advertised on the New York State *Contract Reporter* website and posted on the Procurement page of the Authority's website. Thirty-four firms / entities were listed as having been invited to, or requested to participate in, the Ariba event. Sixteen proposals were received electronically via Ariba and were evaluated, as further set forth in the Award Recommendation documents. Staff recommends the award of contracts to AECOM, Burns, Louis, SNC, Tetra and TRC which are technically and commercially qualified and meets the bid requirements on the basis of 'best value', which optimizes quality, cost and efficiency among responsive and responsible offerors. These contracts are for an intended term of five years, subject to the Trustees' approval, which is hereby requested. Approval is also requested for the aggregate amount expected to be expended for the term of these contracts, $9.5 million.

Human Resources and Shared Services – Benefits

Due to the need to meet and maintain the Authority's project schedule, the proposed personal services contract **(4600003593)** with **BCHR US Acquisitions, Inc. dba Buck Global LLC ('Buck')** became effective December 16, 2018, for the initial interim award amount of $20,000, subject to the Trustee's approval as soon as practicable, in accordance with the Authority's Guidelines for Procurement

Contracts and EAP's. The contract provides actuarial, financial and regulatory compliance administration, and consulting services for NYPA and NYS Canal Corporation employee benefit programs and the Controller's Other Post-Employment Benefit valuations. Bid documents were developed by staff and were accessible through the NYPA.gov site. The Request for Quotations was advertised on the New York State *Contract Reporter* website and posted on the Procurement page of the Authority's website. Eleven firms / entities were listed as having been invited to, or requested to participate in, the Ariba event. Two proposals were received electronically via Ariba and were evaluated, as further set forth in the Award Recommendation documents. Staff recommends the award of a contract to Buck which is technically and commercially qualified and meets the bid requirements on the basis of 'best value', which optimizes quality, cost and efficiency among responsive and responsible offerors. The contract is for an intended term of five years, subject to the Trustees' approval, which is hereby requested. Approval is also requested for the amount expected to be expended for the term of the contract, $1,544,350 ($1,266,367 for NYPA and $277,983 for NYS Canal Corporation).

Utility Operations – NIA

The proposed non-personal services contract with **National Vacuum Environmental Services Corp. ('National') (N19-20133253GJ)** would provide environmental cleaning services for various systems throughout the Western New York NYPA Facilities including Niagara Power Project. National has performed this service under previous contracts and are familiar with the Niagara Power Project facility. Bid documents were developed by staff and were accessible through the NYPA.gov site. The Request for Quotations was advertised on the New York State *Contract Reporter* website and posted on the Procurement page of the Authority's website. Eight firms / entities were listed as having been invited to, or requested to participate in, the Ariba event. Three proposals were received electronically via Ariba and was evaluated, as further set forth in the Award Recommendation documents. Staff recommends the award of contract to National which is technically and commercially qualified and meets the bid requirements on the basis of 'best value', which optimizes quality, cost and efficiency among responsive and responsible offerors. The contract is for an intended term of four years, subject to the Trustees' approval, which is hereby requested. This contract will begin on April 1, 2019 and end on March 31, 2023. Approval is also requested for the amount expected to be expended for the term of the contract, $750,000.

Utility Operations – NIA

The proposed non-personal services contract with **Anderson Medical PC dba Emergency One ('Anderson') (N19-20133099GJ)** would provide on-site Occupational Health Services for employees at the Niagara, St. Lawrence and Blenheim-Gilboa Power Projects. Anderson and their staff are familiar with the Niagara, St. Lawrence and Blenheim-Gilboa Power Projects and have provided service to the Authority under the existing contract for such work. Bid documents were developed by staff and were accessible through the NYPA.gov site. The Request for Quotations was advertised on the New York State *Contract Reporter* website and posted on the Procurement page of the Authority's website. Eleven firms / entities were listed as having been invited to, or requested to participate in, the Ariba event. Two proposals were received electronically via Ariba and was evaluated, as further set forth in the Award Recommendation documents. Staff recommends the award of contract to Anderson which is technically and commercially qualified and meets the bid requirements on the basis of 'best value', which optimizes quality, cost and efficiency among responsive and responsible offerors. The contract is for an intended term of two years, subject to the Trustees' approval, which is hereby requested. This contract will begin on May 1, 2019 and end on April 30, 2021. Approval is also requested for the amount expected to be expended for the term of the contract, $348,600. Anderson Medical PC dba Emergency One is a NYS-certified Minority-owned Business Enterprise.

Utility Operations – Project Management

The proposed construction services contract with **Crown Castle International Corp. dba Crown Castle USA, Inc. ('Crown') (Q18-6458DK)** would support the Smart Generation & Transmission ('SG&T')

Communication Backbone Program Dark Fiber, Rock Tavern to White Plains Project ('RT-WPO'). The Dark Fiber, RT-WPO connection project will support the Authority's Communication Backbone Program which was established to deploy a robust, secure and scalable communications network. Bid documents were developed by staff and were accessible through the NYPA.gov site. The Request for Quotations was advertised on the New York State *Contract Reporter* website and posted on the Procurement page of the Authority's website. Eleven firms / entities were listed as having been invited to, or requested to participate in, the Ariba event. One proposal was received electronically via Ariba and was evaluated, as further set forth in the Award Recommendation documents. Staff recommends the award of contract to Crown which is technically and commercially qualified and meets the bid requirements on the basis of 'best value', which optimizes quality, cost and efficiency among responsive and responsible offerors. The construction services contract is for an intended term of three years plus an additional 20-year Lease Agreement and a 20-year Maintenance Agreement for communication capability, subject to the Trustees' approval, which is hereby requested. Approval is also requested for the amount expected to be expended for the term of the contract, $2,236,800.

Utility Operations – Project Management

The proposed construction services contracts with **GoPower, Inc. ('GoPower'), Haugland Energy Group LLC ('Haugland') and Underground Systems, Inc. ('Underground') (Q18-6520DKT)** would provide emergency repair and restoration services for the equipment associated with the Authority's underground transmission facilities. The Authority's underground transmission assets require a specialized level of expertise to repair in the event of a failure. There have been a total of six underground transmission cable faults requiring specialized assistance within the past ten years. Bid documents were developed by staff and were accessible through the NYPA.gov site. The Request for Quotations was advertised on the New York State *Contract Reporter* website and posted on the Procurement page of the Authority's website. Eight firms / entities were listed as having been invited to, or requested to participate in, the Ariba event. Five proposals were received electronically via Ariba and were evaluated, as further set forth in the Award Recommendation documents. Staff recommends the award of contracts to GoPower, Haugland and Underground which are technically and commercially qualified and meets the bid requirements on the basis of 'best value', which optimizes quality, cost and efficiency among responsive and responsible offerors. These contracts are for an intended term of five years, subject to the Trustees' approval, which is hereby requested. Approval is also requested for the aggregate amount expected to be expended for the term of these contracts, $7.5 million.

Utility Operations – SENY

The proposed non-personal services contract with **Westrock Mechanical Corp. ('Westrock') (A18-001072DW)** would provide HVAC services covering SENY region. Bid documents were developed by staff and were accessible through the NYPA.gov site. The Request for Quotations was advertised on the New York State *Contract Reporter* website and posted on the Procurement page of the Authority's website. Eight firms / entities were listed as having been invited to, or requested to participate in, the Ariba event. Six proposals were received electronically via Ariba and were evaluated, as further set forth in the Award Recommendation documents. Staff recommends the award of contract to Westrock which is technically and commercially qualified and meets the bid requirements on the basis of 'best value', which optimizes quality, cost and efficiency among responsive and responsible offerors. The contract is for an intended term of five years, subject to the Trustees' approval, which is hereby requested. This contract will begin on April 1, 2019 and end on March 31, 2024. Approval is also requested for the amount expected to be expended for the term of the contract, $5 million.

Utility Operations – SENY

The proposed non-personal services contract with **North Hills Office Services, Inc. ('North Hills') (A19-001107DW)** would provide housekeeping and janitorial services for the Richard M. Flynn Power Plant and Brentwood Power Plant. Bid documents were developed by staff and were accessible through the NYPA.gov site. The Request for Quotations was advertised on the New York State *Contract*

Reporter website and posted on the Procurement page of the Authority's website. Four firms / entities were listed as having been invited to, or requested to participate in, the Ariba event. One proposal was received electronically via Ariba and was evaluated, as further set forth in the Award Recommendation documents. Staff recommends the award of contract to North Hills which is technically and commercially qualified and meets the bid requirements on the basis of 'best value', which optimizes quality, cost and efficiency among responsive and responsible offerors. The contract is for an intended term of five years, subject to the Trustees' approval, which is hereby requested. This contract will begin on April 1, 2019 and end on March 31, 2024. Approval is also requested for the amount expected to be expended for the term of the contract, $250,000.

Utility Operations – SENY

The proposed non-personal services contract with **Universal Plant Services of Chicago, Inc. ('Universal') (Q18-6466SR)** would provide gas compressor maintenance at the Authority's SENY Power Plant locations. The Authority owns and operates fourteen gas compressors in the SENY region. Bid documents were developed by staff and were accessible through the NYPA.gov site. The Request for Quotations was advertised on the New York State *Contract Reporter* website and posted on the Procurement page of the Authority's website. Six firms / entities were listed as having been invited to, or requested to participate in, the Ariba event. Two proposals were received electronically via Ariba and was evaluated, as further set forth in the Award Recommendation documents. Staff recommends the award of contract to Universal which is technically and commercially qualified and meets the bid requirements on the basis of 'best value', which optimizes quality, cost and efficiency among responsive and responsible offerors. The contract is for an intended term of five years, subject to the Trustees' approval, which is hereby requested. Approval is also requested for the amount expected to be expended for the term of the contract, $5 million.

Utility Operations – St. Lawrence

The proposed personal services contracts with **Gomez and Sullivan Engineers DPC**, **('Gomez') (Q19-6615JGM)** would provide the 11th Part 12 Federal Energy Regulatory Commission (FERC) Dam Safety Inspection for the St. Lawrence-FDR Power Project (FERC L.P. No. 2000-NY). On July 16, 2018, a letter from FERC indicated that the report for St. Lawrence-FDR Power Project would be due January 2, 2020. FERC regulations require that the Authority hire an independent consultant to perform an independent dam safety inspection and review licensed projects every five years. FERC must approve the résumé of the specific independent consultants employed by GSE to proceed with this work. This contract will permit the Authority to comply with the FERC mandate to conduct independent consultant inspections of its licensed hydropower project. Bid documents were developed by staff and were accessible through the NYPA.gov site. The Request for Quotations was advertised on the New York State *Contract Reporter* website and posted on the Procurement page of the Authority's website. Sixteen firms / entities were listed as having been invited to, or requested to participate in, the Ariba event. Four proposals were received electronically via Ariba and was evaluated, as further set forth in the Award Recommendation documents. Staff recommends the award of contract to Gomez which is technically and commercially qualified and meets the bid requirements on the basis of 'best value', which optimizes quality, cost and efficiency among responsive and responsible offerors. Staff requests Trustee approval for award of contract with a term of five years to provide FERC Part 12 Dam Safety Inspection Services for the St. Lawrence-FDR Power Project (FERC L.P. No. 2000-NY). Approval is also requested for the amount expected to be expended for the term of the contract, $429,165.

Utility Operations – Technical Compliance

The proposed personal services contracts with **Ascentra LLC ('Ascentra') and Tetra Tech, Inc. ('Tetra') (Q18-6549JGM)** would provide services that will allow the emergency management department to successfully execute the drill and exercise program to maintain a heightened state of readiness. The Homeland Security Exercise Evaluation Program (HSEEP) is a national framework for the development, conduct and evaluation of exercises that has been adopted by NYPA as well as external stakeholders

including some of our regulators including FERC. Bid documents were developed by staff and were accessible through the NYPA.gov site. The Request for Quotations was advertised on the New York State *Contract Reporter* website and posted on the Procurement page of the Authority's website. Twenty-one firms / entities were listed as having been invited to, or requested to participate in, the Ariba event. Eight proposals were received electronically via Ariba and were evaluated, as further set forth in the Award Recommendation documents. Staff recommends the award of contract to Ascentra and Tetra which are technically and commercially qualified and meet the bid requirements on the basis of 'best value', which optimizes quality, cost and efficiency among responsive and responsible offerors. The contracts are for an intended term of five years, subject to the Trustees' approval, which is hereby requested. Approval is also requested for the aggregate amount expected to be expended for the term of these contracts, $7.5 million.

Utility Operations – Technical Compliance

Due to the need to meet and maintain the Authority's project schedule, the proposed personal services contract **(4500305455)** with **Deloitte Consulting LLP ('Deloitte')** became effective on February 4, 2019, for the initial interim award amount of $250,000, subject to the Trustee's approval as soon as practicable, in accordance with the Authority's Guidelines for Procurement Contracts and EAP's. The contract would provide support in reviewing and enhancing its processes for supply chain risk management to address the North American Electric Reliability Corporation ('NERC') Cyber Security Supply Chain Management Risk Standard ('the Standard'). The Standard was approved by the NERC Board of Directors in August of 2017 with a final implementation deadline of July 1, 2020. Services are expected to be completed by March 31, 2020 allowing three additional months of audit and review. Bid documents were developed by staff and were accessible through the NYPA.gov site. The Request for Quotations was advertised on the New York State *Contract Reporter* website and posted on the Procurement page of the Authority's website. Twenty-eight firms / entities were listed as having been invited to, or requested to participate in, the Ariba event. Ten proposals were received electronically via Ariba and were evaluated, as further set forth in the Award Recommendation documents. Staff recommends the award of contract to Deloitte which is technically and commercially qualified and meets the bid requirements on the basis of 'best value', which optimizes quality, cost and efficiency among responsive and responsible offerors. The contract is for an intended term of 18 months, subject to the Trustees' approval, which is hereby requested. Approval is also requested for the amount expected to be expended for the term of the contract, $1,630,000.

Extensions and/or Additional Funding Requests:

Commercial Operations – Business and Market Development

At their meeting of July 30, 2015, the Trustees approved the award of contracts to seven firms, **Buro Happold Consulting Engineers PC ('Buro Happold') (4600003064), Firefly Energy Consulting LLC ('Firefly') (4600003063), ICF Resources LLC ('ICF') (4600003066), KEMA, Inc. ('KEMA') (4600003065), Navigant Consulting, Inc. ('Navigant') (4600003067), Nexant, Inc. ('Nexant') (4600003068) and Optimal Energy, Inc. ('Optimal') (4600003061)** to provide consulting support to (a) gather and analyze up-to-date information from customers, service providers and other market participants and stakeholders, and (b) develop new programs and services that meet the needs of customers while supporting State energy policy and recovering costs. These contracts were for a term of up to five-years in the aggregate amount of $3 million. Based on the growth of the energy services marketplace for new products and services, and in order to complete work and support future program work and initiatives including NYEM 2.0, the NYS Governor's EO-166 as well as energy efficiency related efforts, the Trustees approved an additional $2 million in aggregate funding to the seven program strategy and development consultants at their May 22, 2018 meeting. To date, $4,385,937 of the $5 million previously approved by the Trustees has been allocated among the consultants. Staff requests that the aggregate funding for these seven contracts be increased by $4.9 million to a total of $9.9 million to support current and future program evaluation and market development activities. Firefly Energy Consulting LLC is a NYS-certified Women-owned Business Enterprise.

Corporate Affairs - Public & Regulatory Affairs

On May 10, 2018, the Authority issued a one year, single-source contract to **M.J. Bradley & Associates LLC ('M.J. Bradley') (PO# 4500297437)** in the amount of $240,000 to support the development of Sustainability and Environmental Justice plans. M.J. Bradley assisted with an in-depth analysis of sustainability performance and provided technical analysis and strategic advisory services for the development of the Sustainability and Environmental Justice plans. The requested extension will ensure the successful implementation of NYPA's Sustainability Plan, which requires M.J. Bradley's previous experience with key stakeholders and demonstrated expertise in carbon accounting and sustainability management. Staff requests Trustee approval for the extension of the M.J. Bradley contract for twenty-four months, through May 9, 2021. Approval is also requested for additional funding in the amount of $400,000, for a total contract value of $640,000.

Law – Legal Services

The **Fox Rothschild LLP ('Fox') (PO# 4500276754)** law firm provides legal representation to the Authority in connection with litigation and arbitration proceedings relating to six separate construction projects undertaken by the Authority on behalf of energy services customers. Two of the matters have been concluded and in the remaining four matters the Authority is both a defendant in claims brought against the Authority by our contractors and a plaintiff asserting claims against the contractors. In total, the Authority is seeking damages or defending claims that aggregate to more than $30 Million. In all the matters, there has been substantial document production and the use of subject matter construction expert witnesses resulting in increased litigation expenses. This contract was effective as of August 29, 2016 for a term of one year with an approved amount of $350,000. An additional $500,000 and a contract extension for three years (through August 28, 2020) was approved at the September 26, 2017 Trustee meeting. Since that time, the legal work has increased when a settlement could not be reached with an implementation contractor ('RCMT, Inc.'). The RCMT, Inc. claims and counter-claims are being resolved through arbitration. The hearing / testimony portion of the arbitration proceeding has recently concluded. Additional funding of $2 million and $2.25 million was added by the Trustees on March 20, 2018 and October 2, 2018, respectively. The associated construction projects are ongoing. At each stage of the proceedings settlement efforts have been unsuccessful. The Trustees are requested to approve additional funding in the amount of $3.5 million, of which $500,000 was requested on an interim basis, for a total contract value of $8.6 million. It is anticipated that this funding will be sufficient to resolve all RCMT, Inc. matters by this coming Summer, leaving one proceeding for resolution.

Licensing – STL

On April 30, 2018, the Authority issued a one year construction contract to **J.E. Sheehan Contracting Corporation ('J.E. Sheehan') (PO# 4500297033)** in the amount of $422,414 to construct shoreline stabilization measures on the Authority's owned property within the St. Lawrence Project Boundary. The final phase requires restoration involving seeding and mulching to cultivate the lawns that were disturbed. It is not anticipated that climate conditions in St. Lawrence County will be favorable for completion of this phase by April 29, 2019. Staff requests Trustee approval for the extension of the contract for an additional eight months through December 31, 2019, to complete restoration and demobilization. No additional funding is being requested.

Utility Operations – Environmental

On June 13, 2018, the Authority issued a one year, single source contract to **Ultra Electronics Ocean Systems, Inc. ('Ultra') (PO# 4500298425)** in the amount of $141,747 to support the operation of Crescent and Vischer Ferry's fish deterrent systems. The extension of this contract is recommended in order to ensure the operation of Authority's fish deterrent systems, which requires Ultra's proprietary equipment and demonstrated expertise in acoustic deterrence of fish at hydroelectric facilities. Staff request Trustee approval for the extension of the contract for an additional three years in order to provide yearly installation, calibration, storage, maintenance and repair services for the fish deterrent systems at

the Crescent and Vischer Ferry Projects. Approval is also requested for additional funding in the amount of $350,025 based on the average annual cost of $116,675.

Utility Operations – Project Management

On April 26, 2018, the Authority issued a one year construction contract to **Minimax Fire Solutions, Inc. ('Minimax') (PO# 4500296984)** in the amount of $340,733 to install a new dual voltage generator step-up transformer at Robert Moses Power Project ('RMPP') Unit #13 during the June 2018 outage, including a new deluge suppression system for fire protection. Subsequent approval was provided by management in August 2018 for a change order in the amount of $79,228. All work was completed on schedule prior to the end of the outage. However, during the commissioning test, it was determined that the water supply did not meet the required flow and pressure and the system does not comply with the National Fire Protection Association ('NFPA') code. Corrective work is required during the next RMPP Unit #13 planned outage scheduled for September 2019. The Minimax current contract expires in April 25, 2019, and as such a contract extension is required. The requested extension will ensure the continuation of installation of the fire suppression system for Niagara RMPP Unit #13 is completed. Staff requests Trustee approval for the extension of the Minimax contract for one year, through April 25, 2020. Approval is also requested for additional funding in the amount of $175,000, for a total contract value of $594,961.

Utility Operations – Project Management

At their meeting on June 29, 2010, the Trustees approved the Capital Expenditure Authorization Request ('CEAR') for the Lewiston Pump Generating Plant Life Extension and Modernization ('LPGP LEM') Program estimated at $460 million to renew the generation assets of LPGP. On March 27, 2012, **Ferguson Electric Construction Co., Inc. ('Ferguson')** was issued contract number **4600002500** in the amount of $1,591,600 for the installation of ISO Phase Bus & Phase Reversal Switch Actuators for ten unit upgrades. In a memorandum to the Trustees on November 22, 2016, a program schedule extension through 2022 was approved. The extension allowed for the continuation of work to complete the twelfth generating unit and then return to four units that were previously overhauled to replace motor/generator components. It also allowed for the fabrication of long lead equipment without increasing project costs, reducing the Authority's exposure to additional risk. The Trustees were also informed that individual contract extensions for the LPGP LEM Program would be requested in the future. On October 26, 2018, the rework for unit PG-11 was completed and currently work on the ninth unit (PG-4) is in progress. The overall program is on schedule for completion by December 2022. Four unit overhauls and the rework of three additional units remain. The Trustees are requested to approve a contract extension with Ferguson through September 30, 2021. No additional funding is requested.

Utility Operations – Project Management

On April 8, 2018, the Authority issued a one year construction contract to **Northline Ventures, Inc. dba Northline Utilities LLC ('Northline') (PO# 4500296215)** in the amount of $2,649,290.97 to install Optical Ground Wire (OPGW) for both the PS1 and PV20 lines. Due to an accident, all site work was suspended in October 2018 on the PV20 line. Northline is experienced with the work done in the Plattsburgh area and has already completed pre-hotline work for PV20. Staff requests Trustee approval for the extension of the contract for an additional one year through April 7, 2020 to provide for the continuation of construction services for the installation of OPGW on the PV20 transmission line. No additional funding is being requested.

Utility Operations – Project Management

On April 23, 2018, the Authority issued a one year construction contract to **Northline Ventures, Inc. dba Northline Utilities LLC ('Northline') (PO# 4500296752)** in the amount of $4,042,025.18 to install and configure new networking equipment to connect and transmit existing local sensor systems into the OSI PI servers and back to ISOC in White Plains. Due to a non-project related site condition,

work was suspended until the site condition was cleared. This work suspension prohibited Northline from completing the configuration and tagging of the newly networked devices. Staff requests Trustee approval for the extension of the contract for an additional six months through October 21, 2019 to provide for the continuation of configuration and tagging services. No additional funding is being requested.

FISCAL INFORMATION

Funds required to support contract services for various Business Units/Departments and Facilities have been included in the 2019 Approved Operating or Capital Budget. Funds for subsequent years, where applicable, will be included in the budget submittals for those years. Payment will be made from the Operating or Capital Fund, as applicable.

Funds required to support contract services for capital projects have been included as part of the approved capital expenditures for those projects and will be disbursed from the Capital Fund in accordance with the project's Capital Expenditure Authorization Request, as applicable.

RECOMMENDATION

The Senior Vice President – Operations Support Services and Chief Engineer; the Senior Vice President – Human Resources and Enterprise Shared Services; the Senior Vice President – Power Supply; the Senior Vice President – Public & Regulatory Affairs; the Vice President – Project Management; the Vice President – Project & Business Development; the Vice President – Environmental Justice & Sustainability; the Vice President – Total Compensation and HRIS; the Vice President – Legislative and Regulatory Affairs; the Vice President – Clean Energy Business & Market Development; the Vice President – Environmental Health & Safety; the Regional Manager Northern NY; the Regional Manager SENY; the Regional Manager Western NY; Director of Licensing; Director Project Development & Licensing; Director Emergency Management; Director Reliability Standards & Compliance; Director of Operations; the GM Superintendent / Licensing Manager; General Maintenance Supervisor; recommend that the Trustees approve the award of multiyear procurement (services) and other contracts to the companies listed in Exhibit '4d i-A' and the extension and/or funding of the procurement (services) contracts listed in Exhibit '4d i-B,' for the purposes and in the amounts discussed within the item and/or listed in the respective exhibits.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That pursuant to the Guidelines for Procurement Contracts adopted by the Authority, the award and funding of the multiyear procurement services contracts set forth in Exhibit "4d i-A," attached hereto, are hereby approved for the period of time indicated, in the amounts and for the purposes listed therein, as recommended in the foregoing report of the President and Chief Executive Officer; and be it further

RESOLVED, That pursuant to the Guidelines for Procurement Contracts adopted by the Authority, the contracts listed in Exhibit "4d i-B," attached hereto, are hereby approved and extended for the period of time indicated, in the amounts and for the purposes listed

therein, as recommended in the foregoing report of the President and Chief Executive Officer; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

e. Capital Expenditure Authorization Requests

i. **Niagara Power Project – Robert Moses Power Project Life Extension and Modernization Program – Capital Expenditure Authorization Request**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to approve capital expenditures in the amount of $5 million for the Niagara Robert Moses Power Plant Life Extension and Modernization Program ('RM LEM Program' or 'Program'). The total cost of the Program is currently estimated at $1.052 billion. Preliminary funding in the amount of $6 million has been approved to date, bringing the total authorized amount to $11 million.

BACKGROUND

In accordance with the Authority's Capital Planning and Budgeting Procedure, capital expenditures in excess of $6 million require the Trustees' approval.

The Robert Moses Power Plant has had only minor upgrades since its initial construction in the 1960's. An upgrade project completed in the early 2000's only provided minor control system upgrades and did not replace the relay-based controls systems and mechanical governors, which were still state-of-the-art equipment at the time. Mechanical fatigue of basic turbine-generator and other systems was not considered likely at that age and, as such, was not part of the upgrades. This RM LEM Program will implement replacements, overhauls, and/or upgrades to all thirteen generating units and associated auxiliary power generating equipment to replace equipment nearing the end of its useful life and bring the plant into the modern digital operating era. Additionally, the Program includes adding the ability for backup control that will enhance operational reliability. The modernization will enhance plant performance in the New York Independent System Operator ('NYISO') market, and maintain a reliable and competitive power production facility.

In 2017, sensors were installed to collect data to determine the existing conditions of the units and critical infrastructure, as well as facilitate the development of the Program, scope, schedule, and various required bid packages. Activities that commenced in 2018 and are ongoing in 2019 include the bid packages for Integrated Control System ('ICS') and the assessment of the 630T gantry crane, engineering analysis of data to support the mechanical and electrical specifications, and development of the Program master schedule, the Program estimate and Program Plan.

The current request of $5 million includes funding to complete the bid process for the ICS, develop the mechanical/electrical technical specifications, specifications for long, lead-time items such as wicket gates and shafts, and to initiate the assessment of the penstocks.

The full Program is targeted for presentation to the Trustees for approval later this year, along with initial contract awards for the ICS and the procurement of a penstock inspection platform.

DISCUSSION

The Program is aligned with the Authority's Asset Management and Smart Generation and Transmission ('SG&T') strategic initiatives. The Program will incorporate upgrades to the control room,

installation of a backup control room, and controls modernization efforts identified in the SG&T Business Plan.

The Niagara Power Project generally ranks second in annual energy production among hydroelectric plants in the U.S. A significant failure at RMNPP could have severe consequences to the Authority's customers, the market and the Authority, itself.

FISCAL INFORMATION

Payment associated with this project will be made from the Authority's Capital Fund.

RECOMMENDATION

The Senior Vice President and Chief Engineer – Operations Support Services, the Senior Vice President – Technology & Innovation, the Senior Vice President – Power Supply, the Vice President – Project Management, the Vice President – Engineering, Niagara Regional Manager, and the Project Manager recommend that the Trustees approve capital funding in the amount of $5 million for the Robert Moses Life Extension and Modernization Program.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That pursuant to the Capital Planning and Budgeting Procedure, capital expenditures in the amount of $5,000,000 are hereby authorized for the Robert Moses Power Project Life Extension and Modernization Program in accordance with, and as recommended in, the foregoing report of the President and Chief Executive Officer;

Capital	**Expenditure Authorization**
Robert Moses Life Extension and Modernization Program	**$5,000,000**

AND BE IT FURTHER RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

f. Finance

i. **Release of Funds in Support of the Western New York Power Proceeds Allocation Act**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to authorize the release of up to $1 million in funds into the Western New York Economic Development Fund ('WNYEDF') representing 'net earnings' from unallocated Expansion Power and Replacement Power sold into the wholesale energy market for the period January 1, 2019 through December 31, 2019 as set forth in Chapter 58 of the Laws of 2012.

BACKGROUND

On March 30, 2012, Governor Cuomo signed into law the Western New York Power Proceeds Allocation Act (the 'Act') which authorizes the Authority, as deemed feasible and advisable by the Trustees, to deposit into the WNYEDF net earnings from the sale of unallocated Expansion Power and Replacement Power from the Authority's Niagara power project. The Act repealed Chapter 436 of the Laws of 2010, which had amended the Public Authorities Law and the Economic Development Law, to create a somewhat similar program authorizing unallocated Expansion Power and Replacement Power to be utilized for WNYEDF benefits.

The effective date for calculating the net earnings is August 30, 2010, the original effective date of Chapter 436 of the Laws of 2010. Net earnings are defined as 'the aggregate excess of revenues received by the power authority of the state of New York from the sale of expansion and replacement power and energy produced at the Niagara project that was sold in the wholesale energy market over what revenues would have been received had such energy been sold on a firm basis to an eligible expansion power or replacement power customer under the applicable tariff or contract.'

The net earnings deposited into the WNYEDF will be utilized to fund economic development projects ('eligible projects') by private businesses, including not-for-profits, which are physically located within New York State and within a thirty-mile radius of the Niagara power project. Eligible projects are to support the growth of business in the state and thereby lead to increased tax revenues and job creation or retention. Eligible projects may include capital investment in buildings, equipment and associated infrastructure; research and development that benefits New York State; support for tourism and marketing and advertising for Western New York State tourism and business; and energy related projects as authorized under §1005(17) of the Public Authorities Law.

The Act also established the Western New York Power Proceeds Allocation Board ('Allocation Board') which consists of five members appointed by the Governor. The Allocation Board's responsibilities include establishing written procedures for reviewing applications and making recommendations to the Authority for the allocation of fund benefits to eligible projects. In reviewing applications for benefits, the Allocation Board shall employ the same criteria used for determining eligibility for Expansion, Replacement and Preservation Power allocations as provided in §1005 of the Public Authorities Law including, but not limited to, the number of jobs and type of jobs created as measured by wage and benefit levels; business' long-term commitment to the region; amount of capital investment; and impact on competitiveness in the region. Upon recommendation of the Allocation Board, the Authority shall award fund benefits to an applicant, provided however, that upon a showing of good cause, the Authority shall have the discretion as to whether to adopt the Allocation Board's recommendation, or to award benefits in a different amount or on different terms and conditions.

DISCUSSION

The Authority is requested, from time to time, to provide financial support to the State or for various other State programs. Any such transfer of funds must (1) be authorized by the Legislature; (2) be approved by the Trustees 'as feasible and advisable,' and (3) satisfy the requirements of the Authority's General Resolution Authorizing Revenue Obligations dated February 24, 1998, as amended and supplemented ('Bond Resolution'). Further, as set forth in the Trustees' Policy Statement dated May 24, 2011, a debt service coverage ratio of 2.0 shall be used as a reference point in considering any such payments or transfers.

The Bond Resolution's requirements to withdraw monies 'free and clear of the lien and pledge created by the Bond Resolution' are such that withdrawals (a) must be for a 'lawful corporate purpose as determined by the Authority,' and (b) the Authority must determine, taking into account, among other considerations, anticipated future receipt of revenues or other moneys constituting part of the Trust Estate, that the funds to be so withdrawn are not needed for (i) payment of reasonable and necessary operating expenses, (ii) an Operating Fund reserve for working capital, emergency repairs or replacements, major renewals or for retirement from service, decommissioning or disposal of facilities, (iii) payment of, or accumulation of a reserve for payment of, interest and principal on senior debt or (iv) payment of interest and principal on subordinate debt.

The Trustees have already authorized the release of up to $63 million in net earnings from the Operating Fund to the WNYEDF representing the then-estimated net earnings from inception through December 31, 2018. Actual net earnings deposited into the WNYEDF through this period totaled $41.5 million.

Staff is seeking authorization to deposit into the WNYEDF net earnings for the period January 1, 2019 through December 31, 2019 of up to a total of $1 million. While it is estimated that approximately $0.23 million in net earnings will be generated based upon current levels of unallocated Expansion Power and Replacement Power from the Authority's Niagara power project and presently projected wholesale energy prices, the recommendation for up to $1 million reflects the potential volatility in market prices. If authorized by the Trustees, such net earnings would be deposited into the WNYEDF on, at least, a quarterly basis. Such deposits may be made up to a fiscal quarter after the period in which the net earnings are generated.

Staff has reviewed the effect of releasing the requested up to $1.0 million in funding at this time on the Authority's expected financial position and reserve requirements. In accordance with the Board's Policy Statement adopted May 24, 2011, staff also calculated the impact of this release, together with (i) the release of $30 million in Recharge New York Discounts for 2019, (ii) the release of up to $43.2 million in Canal-related operating expenses for 2019 ($21.6 million of which was authorized in December 2018 and $21.6 million of which the Trustees are being asked to authorize at this March 2019 meeting), and (iii) and the release of up to $2 million in Northern NY Power Proceeds net earnings on the Authority's debt service coverage ratio and determined it would not fall below the 2.0 reference level. Based on the Authority's Four Year Budget and Financial Plan, the 2.0 reference point level is forecasted to be met at each year-end of the forecast period 2019-2022. Given the current financial condition of the Authority, its estimated future revenues, operating expenses, debt service and reserve requirements, staff is of the view that it will be feasible for the Authority to release such amounts from the trust estate created by the Bond Resolution consistent with the terms thereof.

FISCAL INFORMATION

Staff has determined that sufficient funds are available to provide up to $1 million for deposit into the WNYEDF for net earnings calculated for the period January 1, 2019 through December 31, 2019, and that such Authority funds are not needed for any of the purposes specified in Section 503(1)(a)-(c) of the Authority's Bond Resolution. Provisions for the Authority's fiscal year 2019 deposits for this program were also included in the 2019 Operating Forecast approved by the Trustees in December 2018. Authorization

for the deposit of net earnings calculated for periods beyond December 31, 2019 into the WNYEDF will be requested of the Trustees at a later date.

RECOMMENDATION

The Deputy Treasurer recommends that the Trustees (a) affirm the deposit of up to $1 million into the Western New York Economic Development Fund ('WNYEDF'), to the extent such amount of net earnings is generated during the period January 1, 2019 through December 31, 2019, is feasible and advisable and (b) authorize such amount to be released from the Operating Fund to the WNYEDF.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That the Trustees hereby authorize the release of up to $1 million from the Operating Fund to the Western New York Economic Development Fund ("WNYEDF"), to the extent such amount of net earnings is generated for the period from January 1, 2019 through December 31, 2019, as authorized by Chapter 58 of the Laws of 2012 and as discussed in the foregoing report of the President and Chief Executive Officer; and be it further

RESOLVED, That the amount of up to $1 million to be released to the WNYEDF for the purposes authorized by Chapter 58 described in the foregoing resolution is (a) affirmed by the Trustees to be feasible and advisable and (b) not needed for any of the purposes specified in Section 503(1)(a)-(c) of the Authority's General Resolution Authorizing Revenue Obligations, as amended and supplemented; and be it further

RESOLVED, That as a condition to making the releases specified in the foregoing resolutions, on the day of such payment the Treasurer or the Deputy Treasurer shall certify that such monies are not then needed for any of the purposes specified in Section 503(1)(a)-(c) of the Authority's General Resolution Authorizing Revenue Obligations, as amended and supplemented; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer, the Executive Vice President and General Counsel, the Executive Vice President and Chief Financial Officer, the Corporate Secretary, the Treasurer and all other officers of the Authority be, and each of them hereby is, authorized and directed, for and in the name and on behalf of the Authority, to do any and all things and take any and all actions and execute and deliver any and all certificates, agreements and other documents that they, or any of them,

may deem necessary or advisable to effectuate the foregoing resolutions, subject to approval as to the form thereof by the Executive Vice President and General Counsel.

ii. **Release of Funds in Support of the Northern New York Power Proceeds Allocation Act**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to authorize the release of up to $2 million in funds into the Northern New York Economic Development Fund ('NNYEDF') representing 'net earnings' from the sale of unallocated St. Lawrence County Economic Development Power into the wholesale energy market for the period January 1, 2019 through December 31, 2019, as authorized by Chapter 545 of the Laws of 2014.

BACKGROUND

1. Program Structure

On December 29, 2014, Governor Cuomo signed into law the Northern New York Power Proceeds Allocation Act (the 'Act') which created a program intended to support economic development by providing financial support for eligible economic development projects located, or proposed to be located, in St. Lawrence County by eligible applicants.

In summary, the program is to be administered by the Authority, with assistance from the five-member Northern New York Power Proceeds Allocation Board ('NNYPPAB') which the Act creates. The NNYPPAB, whose members are appointed by the Governor, is authorized to solicit applications from 'eligible applicants' for financial assistance known as 'fund benefits' to support 'eligible projects;' evaluate applications based on eligibility requirements and applicable criteria; and make recommendations to the Trustees for awards of fund benefits. The Trustees are authorized to consider whether to make awards of fund benefits to support eligible projects that are recommended by the NNYPPAB.

The Act defines 'eligible applicant' as a private business, including a not-for-profit corporation. 'Eligible projects' are defined as economic development projects that are or would be physically located within St. Lawrence County that will support the growth of business in St. Lawrence County and thereby lead to the creation or maintenance of jobs and tax revenues for the state and local governments. Eligible projects may include capital investments in buildings, equipment, and associated infrastructure (collectively, 'infrastructure') owned by an eligible applicant for fund benefits; transportation projects under state or federally approved plans; the acquisition of land needed for infrastructure; research and development where the results of such research and development will directly benefit New York State; support for tourism and marketing and advertising efforts for St. Lawrence County tourism and business; and energy-related projects. Eligible projects do not include, and fund benefits may not be used for, public interest advertising or advocacy; lobbying; the support or opposition of any candidate for public office; the support or opposition to any public issue; legal fees related to litigation of any kind; expenses related to administrative proceedings before state or local agencies; or retail businesses as defined by NNYPPAB, including, without limitation, sports venues, gaming and gambling or entertainment-related establishments, residential properties, or places of overnight accommodation.

Applications will be evaluated using the following criteria specified in the Act:

1. whether the eligible project would occur in the absence of an award of fund benefits;

2. the extent to which an award of fund benefits will result in new capital investment in the State by the eligible applicant and the extent of such investment;

3. other assistance the eligible applicant may receive to support the eligible project;

4. the type and cost of buildings, equipment and facilities to be constructed, enlarged or installed if the eligible applicant were to receive an award of fund benefits;

5. the eligible applicant's payroll, salaries, benefits and number of jobs at the eligible project for which an award of fund benefits is requested;

6. the number of jobs that will be created or retained within St. Lawrence County and any other parts of the State in relation to the requested award of fund benefits, and the extent to which the eligible applicant will agree to commit to creating or retaining such jobs as a condition to receiving an award of fund benefits;

7. whether the eligible applicant is at risk of closing or curtailing facilities or operations in St. Lawrence County and other parts of the State, relocating facilities or operations out of St. Lawrence County and other parts of the State, or losing a significant number of jobs in St. Lawrence County and other parts of the State, in the absence of an award of fund benefits;

8. the significance of the eligible project that would receive an award of fund benefits to the economy of the area in which such eligible project is located; and

9. for new, expanded and/or rehabilitated facilities, the extent to which the eligible applicant will commit to implement or otherwise make tangible investments in energy efficiency measures as a condition to receiving an award of fund benefits.

The Act provides that the NNYPPAB shall also consider the extent to which an award of fund benefits would be consistent with the strategies and priorities of any Regional Economic Development Council having responsibility for the region in which the eligible project would be located, and authorizes the NNYPPAB to solicit the views of organizations that have an interest in economic development in St. Lawrence County regarding such matters as proposed funding strategies and priorities, and applications for fund benefits.

2. Program Funding

The program is funded by 'net earnings' from the sale of unallocated St. Lawrence County Economic Development Power ('SLCEDP'). SLCEDP consists of up to 20 MW of hydropower from the Authority's St. Lawrence/FDR Power Project which the Authority has made available for sale to the Town of Massena Electric Department ('MED') for MED to sub-allocate for economic development purposes in accordance with a contract between the parties entered into in 2012 entitled 'Agreement Governing the Sale of St. Lawrence-FDR Project Power and Energy to the Town of Massena Electric Department for Economic Development Purposes' (the 'Authority-TMED Contract'). The Act defines 'net earnings' as the aggregate excess of revenues received by the Authority from the sale of energy associated with SLCEDP by the Authority in the wholesale energy market over what revenues would have been received had such energy been sold to MED on a firm basis under the terms of the Authority-MED contract. For the first five years after enactment, the amount of SLCEDP that may be used by the Authority to generate net earnings may not exceed the lesser of 20 MW or the amount of SLCEDP that has not been allocated by the Authority under the Authority-MED contract for sub-allocations. Thereafter, the amount of SLCEDP that may be used by the Authority to generate net earnings may not exceed the lesser of 10 MW or the amount of SLCEDP that has not been allocated under the Authority-MED contract for sub-allocations.

The Act also authorized the Authority to create and maintain a fund known as the Northern New York Economic Development Fund (the 'NNYEDF'), and deposit net earnings into the NNYEDF as determined to be feasible and advisable by the Trustees. The NNYEDF is a separate fund residing within the Authority's Operating Fund.

DISCUSSION

The Authority is requested, from time to time, to provide financial support to the State or for various other State programs. Any such transfer of funds must (1) be authorized by the Legislature, (2) be approved by the Trustees 'as feasible and advisable,' and (3) satisfy the requirements of the Authority's General Resolution Authorizing Revenue Obligations, dated February 24, 1998, as amended and supplemented ('Bond Resolution'). Further, as set forth in the Trustees' Policy Statement dated May 24, 2011, a debt service coverage ratio of 2.0 shall be used as a reference point in considering any such payments or transfers.

The Bond Resolution's requirements to withdraw monies 'free and clear of the lien and pledge created by the Bond Resolution' are such that withdrawals (a) must be for a 'lawful corporate purpose as determined by the Authority,' and (b) the Authority must determine, taking into account, among other considerations, anticipated future receipt of revenues or other moneys constituting part of the Trust Estate, that the funds to be so withdrawn are not needed for (i) payment of reasonable and necessary operating expenses, (ii) an Operating Fund reserve for working capital, emergency repairs or replacements, major renewals or for retirement from service, decommissioning or disposal of facilities, (iii) payment of, or accumulation of a reserve for payment of, interest and principal on senior debt, or (iv) payment of interest and principal on subordinate debt.

The Trustees have already authorized the release of up to $12 million in net earnings from the Operating Fund to the NNYEDF representing the then-estimated net earnings from inception through December 31, 2018. Actual net earnings deposited into the NNYEDF through this period totaled $4 million.

Staff is seeking authorization to deposit into the NNYEDF net earnings for the period January 1, 2019 through December 31, 2019 of up to a total of $2 million. While it is estimated that approximately $1.1 million in net earnings will be generated based upon current levels of unused St. Lawrence County Economic Development Power and presently projected wholesale energy prices, the recommendation for up to $2 million reflects the potential volatility in market prices. If authorized by the Trustees, such net earnings would be deposited into the NNYEDF on, at least, a quarterly basis. Such deposits may be made up to a fiscal quarter after the period in which the net earnings are generated.

Staff has reviewed the effect of releasing the requested up to $2.0 million in funding at this time on the Authority's expected financial position and reserve requirements. In accordance with the Board's Policy Statement adopted May 24, 2011, staff also calculated the impact of this release, together with (i) the release of $30 million in Recharge New York Discounts for 2019, (ii) the release of up to $43.2 million in Canal-related operating expenses for 2019 ($21.6 million of which was authorized in December 2018 and $21.6 million of which the Trustees are being asked to authorize at this March 2019 meeting), and (iii) the release of up to $1 million in Western NY Power Proceeds net earnings on the Authority's debt service coverage ratio and determined it would not fall below the 2.0 reference level. Based on the Authority's Four-Year Budget and Financial Plan, the 2.0 reference point level is forecasted to be met at each year-end of the forecast period [2019-2022]. Given the current financial condition of the Authority, its estimated future revenues, operating expenses, debt service and reserve requirements, staff is of the view that it will be feasible for the Authority to release such amounts from the trust estate created by the Bond Resolution consistent with the terms thereof.

FISCAL INFORMATION

Staff has determined that sufficient funds are available to provide up to $2 million for deposit into the NNYEDF for net earnings generated for the period January 1, 2019 through December 31, 2019, and that such Authority funds are not needed for any of the purposes specified in Section 503(1)(a)-(c) of the Authority's Bond Resolution. Provisions for the Authority's fiscal year 2019 deposits for this program were also included in the 2019 Operating Forecast approved by the Trustees in December 2018. Authorization

for the deposit of net earnings calculated for periods beyond December 31, 2019 into the NNYEDF will be requested of the Trustees at a later date.

RECOMMENDATION

The Deputy Treasurer recommends that the Trustees (a) affirm the deposit of up to $2 million into the Northern New York Economic Development Fund ('NNYEDF'), to the extent such amount of net earnings is generated during the period January 1, 2019 through December 31, 2019, is feasible and advisable and (b) authorize such amount to be released from the Operating Fund to the NNYEDF.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That the Trustees hereby authorize the release of up to $2 million from the Operating Fund to the Northern New York Economic Development Fund ("NNYEDF"), to the extent such amount of net earnings is generated for the period from January 1, 2019 through December 31, 2019, as authorized by Chapter 545 of the Laws of 2014 ("Chapter 545") and as discussed in the foregoing report of the President and Chief Executive Officer; and be it further

RESOLVED, That the amount of up to $2 million to be released to the NNYEDF for the purposes authorized by Chapter 545 described in the foregoing resolution is (a) affirmed by the Trustees to be feasible and advisable and (b) not needed for any of the purposes specified in Section 503(1)(a)-(c) of the Authority's General Resolution Authorizing Revenue Obligations, as amended and supplemented; and be it further

RESOLVED, That as a condition to making the releases specified in the foregoing resolutions, on the day of such payment the Treasurer or the Deputy Treasurer shall certify that such monies are not then needed for any of the purposes specified in Section 503(1)(a)-(c) of the Authority's General Resolution Authorizing Revenue Obligations, as amended and supplemented; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer, the Executive Vice President and General Counsel, the Executive Vice President and Chief Financial Officer, the Corporate Secretary, the Treasurer and all other officers of the Authority be, and each of them hereby is, authorized and directed, for and in the name and on behalf of the Authority, to do any and all things and take any and all actions and execute and deliver any and all certificates, agreements and other documents that they, or any of them, may deem necessary or advisable to effectuate the

foregoing resolutions, subject to approval as to the form thereof by the Executive Vice President and General Counsel.

iii. **Release of Funds in Support of the New York State Canal Corporation**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to ratify and authorize the release of an additional up to $21.6 million in funding to the New York State Canal Corporation ('Canal Corporation') to support the operations of the Canal Corporation in calendar year 2019. The amount requested is 25% of the Canal Corporation's revised 2019 O&M Budget as presented to the Canal Corporation Board of Directors at this December 2018 meeting.

BACKGROUND

The Authority has been authorized to provide financial support for the Canal Corporation. See, e.g., Public Authorities Law § 1005-b(2). However, certain expenditures associated therewith do not constitute Capital Costs or Operating Expenses ('Operating Expenses') as defined in the Authority's General Resolution Authorizing Revenue Obligations dated February 24, 1998, as amended and supplemented ('Bond Resolution'). Expenditures for the Canal Corporation's operating purposes that do not constitute Capital Costs or Operating Expenses must satisfy the requirements of the Authority's Bond Resolution relating to the release of funds from the trust estate created by the Bond Resolution for lawful corporate purposes. In addition, as set forth in the Trustees' Policy Statement dated May 24, 2011, a debt service coverage ratio of 2.0 is to be used as a reference point in considering any such release of funds.

The Bond Resolution permits the Authority to withdraw monies 'free and clear of the lien and pledge created by the [Bond] Resolution' provided that (a) such withdrawals must be for a 'lawful corporate purpose as determined by the Authority,' and (b) the Authority must determine, taking into account among other considerations anticipated future receipt of revenues or other moneys constituting part of the Trust Estate, that the funds to be so withdrawn are not needed for (i) payment of reasonable and necessary operating expenses, (ii) an Operating Fund reserve in amounts determined by the Authority to be adequate for working capital, emergency repairs or replacements, major renewals or for retirement from service, decommissioning or disposal of facilities, (iii) payment of, or accumulation of a reserve for payment of, interest and principal on senior debt or (iv) payment of interest and principal on subordinate debt.

Under the Bond Resolution, Capital Costs (which includes capital costs related to the Canal Corporation) may be paid without satisfying the provision described above.

DISCUSSION

With this authorization, the Trustees will ratify and approve the release of $21.6 million, an amount equal to 25% of the Canal Corporation's 2019 O&M Budget. With regard to Canal Corporation's operating expenses in excess of $43.2 million in calendar year 2019, staff is not requesting any action at this time, but will return to the Board to request additional releases as needed.

Staff has reviewed the effect of releasing up to an additional $21.6 million in funding at this time on the Authority's expected financial position and reserve requirements. In accordance with the Board's Policy Statement adopted May 24, 2011, staff calculated the impact of this release, together with the last 12 months releases including (i) the release of $30 million in Recharge New York Discounts for 2019, (ii) the release of up to $43.2 million in Canal-related operating expenses for 2019 ($21.6 million of which was authorized in December 2018 and $21.6 million of which the Trustees are being asked to authorize at this March 2019 meeting), and (iii) the release of up to $1 million in Western NY Power Proceeds net earnings, and (iv) the release of up to $2 million in Northern NY Power proceeds net earnings on the

Authority's debt service coverage and determined it would not fall below the 2.0 reference level. Based on the Authority's Four-Year Budget and Financial Plan, the 2.0 reference point level is forecasted to be met at each year-end of the forecast period 2019-2022. Given the current financial condition of the Authority, its estimated future revenues, operating expenses, debt service and reserve requirements, staff is of the view that it will be feasible for the Authority to release such amounts from the trust estate created by the Bond Resolution consistent with the terms thereof.

FISCAL INFORMATION

Staff has determined that sufficient funds are available in the Operating Fund to release an additional up to $21.6 million in funding to support the operation of the Canal Corporation in calendar year 2019. Staff has further determined that the amounts presently held in reserves in the Operating Fund are adequate for the purposes specified in Section 503.2 of the Authority's Bond Resolution and that such Authority funds are not needed for any of the purposes specified in Section 503(1)(a)-(c) of the Authority's Bond Resolution.

The expenses associated with the operations of the Canal Corporation for calendar year 2019 are included in the Canal Corporation's revised 2019 O&M Budget.

RECOMMENDATION

The Deputy Treasurer recommends that the Trustees ratify and authorize the release of an additional up to $21.6 million in funding to the Canal Corporation to support the operations of the Canal Corporation in calendar year 2019. The Deputy Treasurer further recommends that the Trustees affirm that such release is feasible and advisable, that the amounts presently set aside as reserves in the Operating Fund are adequate for the purposes specified in Section 503.2 of the Authority's Bond Resolution, and that the amount of up to $21.6 million is not needed for any of the purposes specified in Section 503(1)(a)-(c) of the Authority's Bond Resolution.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That the Trustees hereby ratify and authorize the release of an additional up to $21.6 million in funding to the Canal Corporation to support operations of the Canal Corporation in calendar year 2019, as discussed in the foregoing report of the President and Chief Executive Officer; and be it further

RESOLVED, That the amounts presently set aside as reserves in the Operating Fund are adequate for the purposes specified in Section 503.2 of the Authority's Bond Resolution, that the amount of up to $21.6 million in funding as described in the foregoing report is not needed for any of the purposes specified in Section 503(1)(a)-(c) of the Authority's General Resolution Authorizing Revenue Obligations, as amended and supplemented, and that the release of such amount is feasible and advisable; and be it further

RESOLVED, That as a condition to making the payments specified in the foregoing report, on the day of such payments, the Treasurer or the Deputy Treasurer shall certify that such monies are not then needed for any of the purposes specified in Section

503(1)(a)-(c) of the Authority's General Resolution Authorizing Revenue Obligations, as amended and supplemented; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer, the Executive Vice President and General Counsel, the Executive Vice President and Chief Financial Officer, the Corporate Secretary, the Treasurer and all other officers of the Authority be, and each of them hereby is, authorized and directed, for and in the name and on behalf of the Authority, to do any and all things and take any and all actions and execute and deliver any and all certificates, agreements and other documents that they, or any of them, may deem necessary or advisable to effectuate the foregoing resolution, subject to approval as to the form thereof by the Executive Vice President and General Counsel.

iv. **New York Power Authority Other Post-Employment Benefits Trust: Selection of Investment Managers**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to approve the award of multi-year procurement contracts to State Street Global Advisors ('State Street'), Matarin Capital Management, LLC ('Matarin'), Ariel Investments, LLC ('Ariel'), Garcia Hamilton Associates ('Garcia Hamilton'), Loomis Sayles & Co., LP ('Loomis Sayles'), and CenterSquare Investment Management ('CenterSquare') for professional investment management services in connection with the Authority's Other Post-Employment Benefits ('OPEB') Trust Fund.

BACKGROUND

Section 2879 of the Public Authorities Law and the Authority's Guidelines for Procurement Contracts require the Trustees' approval for procurement contracts involving services to be rendered for a period in excess of one year. Moreover, the Authority's Expenditure Authorization Procedures require the Trustees' approval for the award of personal services contracts in excess of $1 million if low bidder, or $500,000 if sole-source or non-low bidder. The terms of the contracts considered herein are for more than one year and, in some cases estimated to exceed the dollar thresholds over the term of the agreement, therefore, the Trustees' approval is required.

OPEB Trust

The OPEB Trust Fund is currently managed by eight portfolio managers, six of which are scheduled to expire in accordance with their terms in 2019: New Amsterdam Partners (Domestic Equity-Small Cap Active), with assets under management of $33 million; State Street (Domestic Equity-All Cap Passive/Index), with assets under management of $247 million; CenterSquare (Public REIT), with assets under management of $35 million; Wells Capital (Core Plus Fixed Income), with assets under management of $68 million; Mackay Shields (Core Fixed Income), with assets under management of $83 million; and WCM International (International Equity), with assets under management of $48 million.

Certain Governmental Accounting Standards Board ('GASB') standards† issued in 2004 require governmental employers to account for other post-employment benefit ('OPEB') liabilities on an 'accrual' basis (i.e., as the benefits are earned during the working career of the employee) rather than on a 'pay-as-you-go' basis, where costs are recorded as the benefits are paid during the employee's retirement years. OPEBs may include medical, prescription drug, dental, vision, life and other long-term care benefits for retirees and eligible beneficiaries. Similar GASB standards for pensions have existed since 1994. The Authority began reporting its OPEB obligations in this manner in 2002. The GASB rules do not mandate funding of the accrued OPEB obligations, only a recognition of the accrued OPEB liability on the employer's financial statements. If left unfunded, however, the amount of the unfunded liability could significantly impact the employer's overall financial condition and its credit rating with an attendant impact on the cost of debt financing.

At their July 31, 2007 meeting, the Trustees (1) approved the creation of the Power Authority of the State of New York Other Post-Employment Benefits Trust (the 'Trust'); (2) adopted the Trust Investment Policy Statement; (3) appointed a Trustee Custodian and (4) approved an initial $225 million funding plan. Subsequently, in October 2011, the Trustees approved an on-going annual funding plan for

† These standards include Statement No. 43 – Financial Reporting for Post-employment Benefit Plans Other Than Pension Plans and Statement No.45 – Accounting and Financial Reporting by Employers for Post-employment Benefits Other than Pensions.

the OPEB Trust and certain amendments to the Investment Policy Statement clarifying diversification and credit quality standards.

As of January 31, 2019, the market value of assets held in the OPEB Trust Fund totaled approximately $602 million, of which $412 million were invested in equities, $151 million were invested in fixed income securities, $35 million were invested in real estate investment trust securities, and $4 million were held in a money market fund.

DISCUSSION

On January 15, 2019, staff solicited proposals for professional fixed income, equity and real estate investment management services for the Other Post-Employment Benefits ('OPEB') Trust Fund by notice to a number of firms providing such services and advertisement in the NYPA instance of ARIBA and the New York State *Contract Reporter*. On or before February 6, 2019 the Authority received a total of 52 proposals in those strategies.

Authority staff, with the support of its financial advisor, NEPC, LLC ('NEPC'), evaluated each proposal, taking into consideration quantitative and qualitative criteria. From a quantitative standpoint, staff evaluated historical performance; various risk metrics (including, but not limited to, each manager's standard deviation, Sharpe Ratio, pairing correlation, correlation to benchmark and Information Ratio), and the schedule of fees. From a qualitative standpoint, firms were evaluated based on team duration and experience, investment strategy and research capabilities. After conducting an extensive review and analysis of each proposal, Authority staff, with the concurrence of NEPC, invited the following ten firms with the top tier rankings to give oral presentations:

- State Street, Mellon Capital Management, and RhumbLine Advisers Ltd (Domestic Equity - All Cap Passive/Index)
- CenterSquare and Ranger Global Real Estate Advisors (Public REITs)
- Matarin Capital Management and Ariel Investments (Domestic Equity – Active Small Cap)
- Garcia Hamilton, Loomis Sayles and Wells Capital (Core and Core Plus Fixed Income).

Based on the above criteria, portfolio diversification benefits evaluation and oral presentations, the following firms were identified to have the highest overall rankings to manage the assets in the OPEB Fund: State Street Global, CenterSquare, Matarin Capital, Ariel Investments, Garcia Hamilton and Loomis Sayles. These firms have identified M/WBE firms to fulfill the M/WBE goal requirements as set forth in the RFPs.

State Street Global Advisors is an incumbent manager for the OPEB Trust Fund with a passive index approach rooted in identifying securities with sustainable or improving financial productivity, with direct correlation to the Russell 3000 benchmark. State Street was the passive Russell 3000 index fund manager that the Authority selected in 2008. Due to their excellent customer support, product leadership, and low fee structure, Staff recommends that State Street continue to serve as a passive equity index fund manager of the OPEB Trust managing $200 million in assets. After interviewing the active small cap managers, Staff is recommending that *both* Matarin Capital, a small cap core manager that blends fundamental and quantitative analysis, and Ariel Investments, with a unique contrarian value philosophy and perceived superior security selection expertise, be selected to manage a combined $30 million in assets. The $30 million mandate would be allocated as $18 million to Matarin and $12 million to Ariel. These managers are complementary in their styles, display solid downside protection, and will offset the portfolio's current overall small cap and growth bias. In addition, Matarin is 100% employee-owned with majority ownership by women partners.

In respect to the REIT allocations, CenterSquare's global strategy with a distinguished security valuation process, geographic diversification, strong risk controls and depth of its research teams is recommended to continue as the global REIT portfolio manager of the OPEB Trust with approximately $36 million in assets.

Regarding Core Fixed Income, Garcia Hamilton was a prior manager in the Nuclear Decommissioning Trust ('NDT Fund') that was transferred in early 2017. Garcia had outperformed the Barclays Aggregate Bond Index since inception, with its high quality investment strategy, low fees, conservative investment philosophy and strong track record that has a proven ability to manage around the restrictive NDT guidelines and still be able to generate excess returns. As such, it is recommended that Garcia Hamilton manage a Core Fixed Income mandate of $100 million in the OPEB Trust. The firm is 100% employee-owned with almost 75% ownership by ethnic minority and women partners.

For the fixed income core plus strategy, the firms Loomis Sayles and incumbent Wells Capital have both shown historically strong performance records in the high yield credit sectors, while taking less risk and delivering through security selection in domestic and international markets. However, Staff recommends that Loomis Sayles be selected to manage this fund with an allocation of $45 million in assets for its more complementary strategy fit with Garcia Hamilton.

It is recommended that the six firms be awarded five-year contracts, with proposed asset allocations as noted below, subject, however, to early termination at any time by the Authority on 60 days' notice. The allocation amounts were determined by the need to address rebalancing recommendations in the Authroity's annual asset allocation study and are based on the assets' ending market value as of January 31, 2019. Amounts will be adjusted proportionally for the actual asset value on the transition date of the assets.

Strategy	Allocation ($ millions)	Firm
All Cap Dom. Equity – Passive/Index	200	State Street Global
Small Cap Dom. Equity -- Active	12	Ariel Investments
Small Cap Dom. Equity -- Active	18	Matarin Capital
Core Plus Fixed Income	100	Garcia Hamilton
Core Fixed Income	45	Loomis Sayles
Public REITs	35	CenterSquare
Total	$410	

FISCAL INFORMATION

The fees for the recommended investment managers are expected to average approximately 40 to 60 basis points (a basis point is equal to 1/100th of 1%, or 0.01%) dependent on the investment style and amount of assets under management, subject to negotiation, and will be paid from the OPEB Fund.

RECOMMENDATION

The Deputy Treasurer recommends the Trustees' approval of the award of five-year service contracts to State Street Global Advisors, Matarin Capital Management, Ariel Investments, Garcia Hamilton & Associates, Loomis Sayles & Co., and CenterSquare Investment Management.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That pursuant to the Guidelines for Procurement Contracts adopted by the Authority, the award of the multiyear investment management service contracts to State Street Global Advisors, Matarin Capital Management, Ariel Investments, Garcia Hamilton

Associates, Loomis Sayles & Co., and CenterSquare Investment Management for professional investment management services in connection with the Authority's Other Post-Employment Benefits Trust Fund, as recommended in the foregoing report of the President and Chief Executive Officer, is hereby approved and the execution of such contracts by the Executive Vice President and Chief Financial Officer or the Treasurer, subject to the approval of the form thereof by the Executive Vice President and General Counsel, on behalf of the Authority is approved; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer, the Executive Vice President and Chief Financial Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things and take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

g. Annual Reports:

i. **2018 Financial Reports Pursuant to Section 2800 of the Public Authorities Law and Regulations of the Office of the State Comptroller**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to approve the financial report (consolidated) for the year ended December 31, 2018 (Exhibit '4g i-A') and authorize the Corporate Secretary to submit this report to the Governor, legislative leaders, the State Comptroller and the Authorities Budget Office ('ABO') pursuant to Section 2800 of the Public Authorities Law, as amended by the Public Authorities Accountability Act of 2005 ('PAAA'). In accordance with regulations adopted by the Office of the State Comptroller ('OSC'), the Trustees are also requested to approve and authorize posting of a report of actual versus budgeted results for the year 2018 (Exhibit '4g i-B') on the Authority's website.

BACKGROUND

The PAAA reflects the State's commitment to maintaining public confidence in public authorities by ensuring that the essential governance principles of accountability, transparency and integrity are followed at all times. To facilitate these objectives, the PAAA established an independent ABO that monitors and evaluates the compliance of State authorities with the requirements of the PAAA. The PAAA amended Section 2800 of the Public Authorities Law to require that financial reports submitted by a State authority under Section 2800 be certified by the chief executive officer and chief financial officer and approved by the authority's board.

Following rulemaking proceedings undertaken pursuant to the State Administrative Procedure Act, OSC implemented regulations on March 29, 2006 that address the preparation of annual budgets and related reporting requirements by 'covered' public authorities, including the Authority. These regulations establish various procedural and substantive requirements relating to the budgets and require the chief financial officer to report publicly not later than 90 days after the close of each fiscal year on actual versus budgeted results.

DISCUSSION

The Trustees are requested to approve the required financial report (consolidated) for the year ended December 31, 2018 and authorize the Corporate Secretary to submit this report to the Governor, legislative leaders, the State Comptroller and the ABO pursuant to Section 2800 of the Public Authorities Law. This report was reviewed by the Audit Committee at its meeting of March 26, 2019. The Trustees are also requested to approve a report of actual versus budgeted (consolidated) results for the year 2018 and authorize posting it on the Authority's website.

FISCAL INFORMATION

There is no anticipated fiscal impact.

RECOMMENDATION

The Senior Vice President, Financial Operations and Acting Controller recommends that the Trustees approve and authorize submittal of the financial report financial report (consolidated) for the year ended December 31, 2018 and posting of a report of actual versus budgeted financial report (consolidated) results for the year 2018 on the Authority's website (Exhibits '4g i-A' and '4g i-B') as discussed herein. The Audit Committee reviewed the financial report financial report (consolidated) for

the year ended December 31, 2018 at their meeting earlier today and is also recommending its approval.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

WHEREAS, pursuant to Section 2800(1) of the Public Authorities Law, the Authority is required to annually submit to the Governor, the Chairman and Ranking Minority Member of the Senate Finance Committee, the Chairman and Ranking Minority Member of the Assembly Ways and Means Committee, the State Comptroller and the Authorities Budget Office, within 90 days after the end of its fiscal year, a complete and detailed report or reports setting forth information regarding, among other things, certain financial information; and

WHEREAS, pursuant to Section 2800(3), financial information submitted under Section 2800 shall be approved by the Authority's Board of Trustees and shall be certified in writing by the Chief Executive Officer and the Chief Financial Officer of the Authority that based on the officer's knowledge the information provided therein (a) is accurate, correct and does not contain any untrue statement of material fact; (b) does not omit any material fact which, if omitted, would cause the financial statements to be misleading in light of the circumstances under which such statements are made and (c) fairly presents in all material respects the financial condition and results of operations of the Authority as of, and for, the periods presented in the financial statements; and

WHEREAS, on the date hereof, the Chief Executive Officer and Chief Financial Officer have so certified as to the financial information contained within the attached reports for the fiscal year ending December 31, 2017;

NOW THEREFORE BE IT RESOLVED, That pursuant to Section 2800 of the Public Authorities Law, the financial reports attached hereto are adopted and the Corporate Secretary be, and hereby is, authorized to submit to the Governor, the Chairman and Ranking Minority Member of the Senate Finance Committee, the Chairman and Ranking Minority Member of the Assembly Ways and Means Committee, the State Comptroller, and the Authorities Budget Office the attached financial report for the year ending 2016 in accordance with the foregoing report of the President and Chief Executive Officer; and be it further

RESOLVED, That pursuant to 2 NYCRR Part 203, the attached report of actual vs. budgeted results for the year 2017 is approved in accordance with the foregoing report of

the President and Chief Executive Officer; and the Corporate Secretary is authorized to post the report on the Authority's website; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Executive Vice President and Chief Financial Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things and take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

ii. **Annual Review and Approval of Guidelines for the Investment of Funds and 2018 Annual Report on Investment of Authority Funds**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to review and approve the attached 2018 Annual Report on Investment of Authority Funds and amendment to the Guidelines for the Investment of Funds (Exhibit '4g ii-A').

BACKGROUND

Section 2925 of the Public Authorities Law requires the review and approval of an annual report on investments. Pursuant to the statute, the attached report includes Investment Guidelines that set standards for the management and control of the Authority's investments; total investment income; a statement of fees paid for investment management services; the results of an independent audit; a detailed inventory report for each of the Authority's investment portfolios as of December 31, 2018; and a summary of transactions with brokers, dealers and banks. The approved annual report is filed with the State Division of the Budget, with copies to the Office of the State Comptroller, the Senate Finance Committee and the Assembly Ways and Means Committee. The report is also available to the public upon written request.

DISCUSSION

1. Overview of 2018 Annual Report on Investment of Authority Funds

In 2018, the Authority's investment portfolios, exclusive of the separately managed Other Post-Employment Benefits Trust Fund averaged approximately $1.04 billion with a December 31, 2018 cost of $985.2 million and market value of $977.4 million, representing a mark-to-market loss of approximately $7.8 million. At year-end, $971.3 million in cash and investments was held in the Authority's Operating Fund with the remainder held in construction funds and restricted funds. The Operating Fund was created by the Authority's General Resolution authorizing Revenue Obligations adopted on February 24, 1998. A number of internal reserves have been established within the Operating Fund, as follows (year-end balances noted in parentheses):

- **Debt Service Reserve ($28 million)** – The Debt Service Reserve is funded monthly to ensure that sufficient amounts are available to pay debt service obligations when due. The Authority's forecasted scheduled principal and interest payments presently total approximately $90 - $110 million per year.

- **Energy Hedging/Fuel Reserve ($45 million)** – This Reserve was established to have funds available for use as collateral that may be required to support the Authority's authorized fuel and energy hedging transactions and to maintain funds to match a federal obligation to pay for the processing and final disposition of spent nuclear fuel burned by the Authority when it owned the Indian Point #3 and James A. FitzPatrick nuclear plants. On February 3, 2009, the Trustees approved the temporary transfer to the State of New York ('State') of $215 million held in this Reserve for the spent fuel obligation to assist with the State's budgetary deficits. The temporary asset transfer was completed on February 25, 2009 and, in accordance with the terms and conditions of a second amended Memorandum of Understanding between the NYS Director of the Division of Budget and the Authority, is due to be returned to the Authority in six annual installments that began in 2017. The first of these installments of $22 million was received on September 26, 2017, with the second installment of $22 million received on September 21, 2018. The December 31, 2018 spent fuel obligation was $223 million.

- **Capital Project Reserve ($577 million)** – This amount is being set aside to partially fund major new investments in energy infrastructure by the Authority. In order to minimize customer costs, maintain the Authority's financial metrics and maintain ready access to the capital markets, it has been determined that the major investments should be financed with a portion funded by debt and a portion funded by Authority cash or, in effect, its 'equity.' This Reserve has been established to provide this equity. On February 3, 2009, the Trustees approved a temporary transfer of $103 million from the Capital Project Reserve to the State to assist with the State's budgetary deficits and reaffirmed the transfer on July 28, 2009. The temporary asset transfer was completed in September 2009, and in accordance with the terms and conditions of an amended Memorandum of Understanding between the NYS Director of the Division of Budget and the Authority, was scheduled to be returned to the Authority in five annual installments beginning in 2014. The first of these installments of $18 million was received on October 1, 2014, with the second installment of $21 million received on September 17, 2015. The third installment of $21 million was received on September 22, 2016. The fourth installment of $22 million was received on September 26, 2017. The fifth and final installment of $21 million under a second amended MOU was received on September 21, 2018.

- **Western New York Economic Development Fund ($10 million)** – On March 30, 2012, Governor Cuomo signed into law the Western New York Power Proceeds Allocation Act (the 'Act'), which authorizes net earnings from the sale of unallocated Expansion Power and Replacement Power from the Authority's Niagara power project, as deemed feasible and advisable by the Trustees, to be deposited into the Western New York Economic Development Fund ('WNYEDF'). The net earnings deposited into the WNYEDF will be utilized to fund economic development projects by private businesses, including not-for-profits, which are physically located within New York State and within a thirty-mile radius of the Niagara power project.

- **Northern New York Economic Development Fund ($4 million)** – On December 30, 2014, Governor Cuomo signed into law the Northern New York Power Proceeds Allocation Act, which authorizes net earnings from the sale of up to 20 MW of unallocated firm St. Lawrence County Economic Development Power from the Authority's St. Lawrence-FDR power project, as deemed feasible and advisable by the Trustees, to be deposited into the Northern New York Economic Development Fund ('NNYEDF'). The net earnings deposited into the NNYEDF will be utilized to fund economic development projects and businesses in St. Lawrence County. After five years, only up to 10 MW of unallocated power will be monetized for economic development.

- **Operating Reserve ($307 million)** – The Operating Reserve includes a reserve for working capital and emergency repairs to the Authority's projects. The Authority's Trustees have established a minimum reserve amount of $175 million for this purpose and funds cannot be released for 'any lawful corporate purpose' (pursuant to Section 503(1)(e) of the Bond Resolution) unless this minimum reserve level is satisfied. The December 31, 2018 Operating Reserve of $307 million reflects this $175 million minimum, plus the amount staff deems prudent to provide for uncertainties in cash flows and commitments related to certain statewide economic development programs.

In addition to the Operating Fund, as of December 31, 2018, the Authority separately held a total of $24.3 million in cash and investments from the proceeds of bond and note issuances in its Construction portfolios. These funds are earmarked for construction projects currently under way, such as the St. Lawrence Life Extension and Modernization Project and improvements pursuant to the Niagara Relicensing Settlement Agreements.

The Authority's portfolios earned approximately $15.9 million in investment income in 2018, a $1.9 million increase from the investment income earned in 2017. The rising interest rate environment

allowed the reinvestment of maturing securities to higher yielding instruments. As of December 31, 2018, the Authority's portfolios yielded 1.99%.

As of December 31, 2018, the portfolio was comprised of government-sponsored agency securities (87.3%), municipal securities (10.7%), treasuries (1.6%), certificates of deposit and repurchase agreements (0.4%).

Other Post-Employment Benefits Trust ($565 million)

The Authority's Other Post-Employment Benefits Trust ('OPEB Trust') was established in 2007 as authorized by the Authority's Trustees at their December 19, 2006 meeting to provide for medical, prescription drug, life and other long-term care benefits offered by the Authority for retirees and eligible beneficiaries. The OPEB Trust allows for investments in a diversified portfolio of assets, including domestic and international equity securities, domestic and international fixed-income securities, public Real Estate Investment Trusts and a U. S. Treasury Money Market fund. During 2007 and 2008, the Authority deposited a total of $225 million into the OPEB Trust to partially fund its actuarial accrued liability. On October 25, 2011, the Authority's Trustees approved on-going annual funding of the OPEB Trust in order to strengthen the Authority's financial position. Contributions totaling $114.7 million, which represented the net obligation for the years 2009 through 2015, were made to the OPEB Trust in accordance with the Trustees authorization.

As of December 31, 2018, the OPEB Trust's market value was approximately $565 million, representing a negative annualized return of 5.85% for 2018. The return performance was attributable to significant fourth quarter market corrections across asset classes, especially in international and domestic equities, and real estate.

Investment management and advisory fees associated with the OPEB Trust Fund totaled $1,713,390 in 2018 and were paid from such Trust Fund. These fees and the firms paid are detailed in Section III (B) of the attached report.

2. Amendments to Investment Guidelines

The Investment Guidelines and procedures have not been amended since last presented to, and approved by the Trustees at their meeting of March 20, 2018. Two edits are recommended to adapt to changes in the short-term liquidity markets. First, Staff recommends broadening repurchase agreement counterparties to creditworthy banks and trust companies authorized to do business in New York, as many banks on the Federal Reserve list no longer offer, or have severely limited offerings of, those products. This change is consistent with the guidance in the State Comptroller's Investment Guidelines for Public Authorities. Second, Staff recommends adding Money Market Funds as an authorized investment. Such funds can be invested in U.S government securities, offering both the lowest risk and highest liquidity. A comparable change was adopted in the investment guidelines of sister authority NYSERDA in 2017.

With the inclusion of the two suggested changes, the Guidelines remain fundamentally sound and meet the requirements of the Authority. Furthermore, these Guidelines continue to meet the requirements of Section 2824(1)(e) of the Public Authorities Law, which requires the Authority's Trustees to establish written policies and procedures with respect to investments.

RECOMMENDATION

The Deputy Treasurer recommends that the Trustees approve the attached 2018 Annual Report on Investment of Authority Funds and amendment to the Guidelines for the Investment of Funds.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That the 2018 Annual Report on Investment of Authority Funds and amendment to the Guidelines for the Investment of Funds be, and hereby is, approved; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

iii. **Annual Review and Approval of Guidelines for, and Annual Report of the Disposal of Personal Property**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to review and approve the Guidelines for the Disposal of Authority Personal Property ('Personal Property Guidelines'), which address the disposal of Authority-owned materials, tools, equipment and vehicles, in compliance with Public Authorities Law § 2896. The Personal Property Guidelines are attached hereto as Exhibit '4g iii-A.' The Trustees are also requested to review and approve the 2018 Annual Report of the Disposal of Personal Property over $5,000, attached hereto as Exhibit ''4g iii-A-1.'

BACKGROUND

On January 13, 2006, the Public Authorities Accountability Act of 2005 ('PAAA') was enacted to codify model governance principles for New York State's public authorities to further accountability and transparency. Among its provisions, the PAAA, and as later amended by the Public Authorities Reform Act of 2009, established requirements for the disposal of public authority personal property. The law also required each authority to draft guidelines consistent with the legislation dealing with these issues, to review and approve such guidelines annually and to prepare an annual report of the disposal of personal property (including the full description, name of the purchaser and price received for all such property disposed of by the authority during such period). Such Guidelines were initially approved by the Trustees at their meeting of March 28, 2006 and have been amended as deemed advisable and necessary, and reviewed and approved annually since that date, most recently on March 20, 2018.

DISCUSSION

The Personal Property Guidelines set forth the methodology detailing the Authority's policy regarding the use, award, monitoring and reporting of the disposal of personal property and designate a Contracting Officer responsible for the Authority's compliance with, and enforcement of, such Guidelines.

Staff has reviewed the Personal Property Guidelines and recommends no substantive changes. The clean copy, attached hereto as Exhibit '4g iii-A' and as approved by the Governance Committee for submission to the full Board at its meeting on March 26, 2018, is provided for Trustee review and approval.

The 2018 Report of Personal Property Disposal, attached hereto as Exhibit '4g iii-A-1,' is comprised of 37 records with a total value of $832,460.75 (36 of which are Fleet-related with a value of $825,850.00 and one which is Facilities related with a value of $6,610.75.)

Upon annual review and approval by the Trustees, the Guidelines and corresponding Annual Report will be filed on or before the 31st day of March with the State Comptroller, the Director of the Division of the Budget, the Commissioner of General Services, the State Legislature and the Authorities Budget Office and posted on the Authority's internet website, in compliance with applicable law and the Guidelines.

FISCAL INFORMATION

There will be no financial impact on the Authority.

RECOMMENDATION

The Vice President – Strategic Supply Management recommends that the Trustees approve the Guidelines for the Disposal of Authority Personal Property for the disposition of Authority-owned materials, tools, equipment and vehicles, and the corresponding 2018 Annual Report of the Disposal of Personal Property over $5,000, as set forth in Exhibits '4g iii-A' and '4g iii-A-1,' respectively.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That pursuant to the provisions of the Public Authorities Law, the Authority hereby reviews and approves the Guidelines for the Disposal of Authority Personal Property, as set forth in Exhibit "4g iii-A," and attached hereto; and be it further

RESOLVED, That pursuant to the provisions of the Public Authorities Law, the Authority hereby reviews and approves the 2018 Annual Report of the Disposal of Personal Property over $5,000, as set forth in Exhibit "4g iii-A-1," and attached hereto; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

iv. **Annual Report of Procurement Contracts, Guidelines for Procurement Contracts and Annual Review of Open Procurement Service Contracts**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to approve the 2018 Annual Report of Procurement Contracts ('Annual Report') (Exhibit '4g iv-A-3') and the Guidelines for Procurement Contracts ('Guidelines') (Exhibit '4g iv-A-2') and to review open service contracts exceeding one year that were active in 2018 as detailed in the Annual Report (Exhibit '4g iv-A-3'). An Executive Summary is set forth in Exhibit '4g iv-A-1.'

BACKGROUND

Section 2879 of the Public Authorities Law ('PAL') governs the administration and award of procurement contracts equal to or greater than $5,000. Section 2879 of the PAL requires public authorities to adopt comprehensive guidelines detailing their operative policy and instructions concerning the use, awarding, monitoring and reporting of procurement contracts. The Authority's Guidelines were adopted by the Trustees at their meeting of October 31, 1989 and were implemented as of January 1, 1990. The Guidelines have been amended as deemed advisable and necessary, and reviewed and approved annually by the Board since that date, most recently on March 20, 2018.

Section 2879 of the PAL also requires authorities to review and approve such guidelines annually and to file a report regarding procurement contracts with the Director of the Division of the Budget, the Department of Audit and Control, the Department of Economic Development, the Senate Finance Committee, the Assembly Ways and Means Committee and the Authorities Budget Office. The Annual Report must include a copy of the Authority's current Guidelines, details concerning any changes to the Guidelines during the year and particular information concerning procurement contracts. For each procurement contract included in the report, the following information must be identified:

> *[A] listing of all procurement contracts entered into [by the Authority], all contracts entered into with New York State business enterprises and the subject matter and value thereof, all contracts entered into with certified minority or women-owned business enterprises and the subject matter and value thereof, all referrals made and all penalties imposed pursuant to section three hundred sixteen of the executive law, all contracts entered into with foreign business enterprises, and the subject matter and value thereof, the selection process used to select such contractors, all procurement contracts which were exempt from the publication requirements of article four-C of the economic development law, the basis for any such exemption and the status of existing procurement contracts.*

Lastly, §2879 of the PAL requires an annual review by the Trustees of open service contracts exceeding one year, which are also included in the Annual Report.

DISCUSSION

The 2018 Annual Report is attached for the Trustees' review and approval (Exhibit '4g iv-A-3'). The Annual Report reflects activity for all procurement contracts equal to or greater than $5,000, as identified by the Authority's SAP Enterprise Resource Planning ('ERP') system, that were open, closed or awarded in 2018, including contracts that were extended into 2019 or beyond. In addition, fossil fuels transactions reported by the Fuel Planning and Operations group and financial-related services reported by Corporate Finance (of the Wholesale Commercial Operations and Business Services Business Units, respectively), are included in the Annual Report of Procurement Contracts. All additional information required by the statute is also included. The Trustees are requested to approve the attached Annual Report pursuant to §2879 of the PAL prior to submittal thereof to the Director of the Division of the

Budget, the Department of Audit and Control, the Department of Economic Development, the Senate Finance Committee, the Assembly Ways and Means Committee and the Authorities Budget Office.

A copy of the Guidelines effective March 26, 2019 (Exhibit '4g iv-A-2') is attached to the Annual Report. These Guidelines are amended in accordance with certain provisions of State Finance Law §§ 139-j and 139-k, New York Public Officers Law §73(8), and as further set forth in Exhibit '4g iv-A-1.'

The Guidelines generally describe the Authority's process for soliciting proposals and awarding contracts. Topics detailed in the Guidelines include solicitation requirements, evaluation criteria, contract award process, contract provisions, change orders, Minority- and Women-owned Business Enterprise ('MWBE') requirements, employment of former officers and reporting requirements.

FISCAL INFORMATION

There will be no financial impact on the Authority.

RECOMMENDATION

The Vice President – Strategic Supply Management recommends that the Trustees approve the 2018 Annual Report of Procurement Contracts, the Guidelines for Procurement Contracts and the review of open service contracts as attached hereto in Exhibits '4g iv-A-1' through '4g iv-A-3.'

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

> **RESOLVED, That pursuant to Section 2879 of the Public Authorities Law and the Authority's Procurement Guidelines, the Annual Report of Procurement Contracts, as listed in Exhibit "4g iv-A-3," and the Guidelines for the use, awarding, monitoring and reporting of Procurement Contracts (Exhibit "4g iv-A-2"), as amended and attached hereto be, and hereby are, approved; and be it further**
>
> **RESOLVED, That the open service contracts exceeding one year be, and hereby are, reviewed and approved; and be it further**
>
> **RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.**

v. **Approval of Revised Expenditure Authorization Procedures**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to approve revised Expenditure Authorization Procedures ('EAPs') governing Procurement and Real Estate pursuant to Article VII, Section 5 of the Authority's By-Laws.

The Trustees are also requested to continue the delegation to the Chairman of the Authority to modify existing authorization and execution limits of the EAPs relating to commitments for the approval of, award of, and change orders to contracts that do not require approval by the Trustees.

BACKGROUND

Article VII, Section 5 of the Authority's By-Laws requires that the Trustees adopt expenditure authorization procedures which, among other things, govern contract approval authorizations and executions, delegation of approval for claims settlements and payment for real estate. The EAPs were last revised in 2018 with the Chairman's approval.

DISCUSSION

Good governance dictates that these revised EAPs (attached as Exhibit '4g v-A') be presented for Board approval. The Governance Committee, at its meeting held on March 26, 2019, reviewed the proposed modifications to the EAPs and recommended adoption by the full Board.

Staff has identified the need to authorize certain additional levels of personnel (titles) to approve commitments, as well as to increase the execution (signing) limits for certain purchasing and other personnel. The recommended changes will rightly place responsibility with those employees already accountable for such functions and further streamline the procurement process, while at the same time maintaining appropriate controls on the process.

FISCAL INFORMATION

There will be no financial impact on the Authority.

RECOMMENDATION

The Vice President – Strategic Supply Management recommends that the Trustees approve the proposed modifications to the Expenditure Authorization Procedures.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That the revised Expenditure Authorization Procedures discussed in the foregoing report of the President and Chief Executive Officer, and attached hereto as Exhibit '4g v-A,' be hereby adopted; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things and take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

vi. **Annual Review and Approval of Guidelines and Procedures for the Disposal of Real Property, Acquisition of Real Property, Annual Reports for the Disposal and Acquisition of Real Property, and Expenditure Authorization Procedures**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to review and approve the following, which complies with the requirements of the Public Authorities Accountability Act of 2005 ('PAAA') as amended by the Public Authorities Reform Act, Chapter 506 of the Laws of 2009:

(1) 2019 Guidelines and Procedures for the Disposal of New York Power Authority Real Property ('Real Property Disposal Guidelines') for transfers of land or interests in land, set forth in Exhibit '4g vi-A';

(2) 2019 Guidelines and Procedures for the Acquisition of Real Property by the New York Power Authority ('Real Property Acquisition Guidelines') set forth in Exhibit 4g vi- 'B';

(3) 2018 Annual Report of the Disposal of Real Property set forth in Exhibit '4g vi-C';

(4) 2018 Annual Report of the Acquisition of Real Property set forth in Exhibit '4g vi-C-1'; and

(5) The Real Estate Expenditure Authorization Procedures ('EAP's') set forth in Exhibit '4g vi-D.'

BACKGROUND

On January 13, 2006, the PAAA was enacted to codify model governance principles for New York State's public authorities to further accountability and transparency. The PAAA was subsequently amended by the Public Authorities Reform Act (Chapter 506 of the Laws of 2009). Among its provisions, the PAAA established rules for the disposal and acquisition of real property owned by public authorities. In addition to requiring each authority to draft and annually review and approve guidelines consistent with the legislation, each authority must also prepare an annual report of all real property of such authority having an estimated fair market value in excess of fifteen thousand dollars that the authority acquires or disposes of during such period. The report shall contain the price received or paid by the authority and the name of the purchaser or seller for all such property sold or bought by the authority during such period.

The 2019 Real Property Disposal Guidelines and the 2019 Real Property Acquisition Guidelines set forth the methodology detailing the Authority's policy regarding the use, award, monitoring and reporting of contracts for the disposal and acquisition of real property and designate a Contracting Officer responsible for the Authority's compliance with, and enforcement of, such Guidelines. At their meeting of March 20 2018, the Trustees reviewed and approved the Authority's 2018 Real Property Disposal Guidelines and Real Property Acquisition Guidelines. No substantive changes were made to these Guidelines, as set forth in Exhibits 4g vi-A and 4g vi-B attached hereto.

DISCUSSION

New York Public Authorities Law §2800 requires that the Real Property Disposal Report list the real property disposal transactions conducted during the reporting period having an estimated fair market value in excess of $15,000.00, including a description of the property, the purchaser's name and the price received by the Authority. Similarly, the Real Property Acquisition Report lists the real property acquisition transactions conducted during the reporting period having an estimated fair market value in

excess of $15,000.00, including a description of the property, the seller's name and the price received by the Authority. During this reporting period, there were no acquisitions of real property with an estimated fair market value in excess of $15,000.00 and two (2) disposals of real property with an estimated fair market value in excess of $15,000.00.

The Trustees are now requested to review and approve the 2019 Real Property Disposal Guidelines, the 2019 Real Property Acquisition Guidelines, the Authority's 2018 Annual Report of the Disposal of Real Property and the Authority's 2018 Annual Report of the Acquisition of Real Property.

Both Guidelines, if approved, will be posted on the Authority's internet website, as will be the 2018 Annual Reports. On or before the 31st day of March, the Real Property Disposal Guidelines, the Real Property Acquisition Guidelines and the corresponding 2018 Annual Reports, as reviewed and approved by the Trustees, will be filed with the State Comptroller, the Director of the Budget, the Commissioner of General Services, the State Legislature and the Authorities Budget Office.

No substantive changes were made to The Expenditure Authorization Procedures for Claims Settlement and Payment for Real Estate (Exhibit '4g vi-D').

FISCAL INFORMATION

There will be no financial impact on the Authority.

RECOMMENDATION

The Vice President – Enterprise Shared Services recommends that the Trustees approve the 2019 Real Property Disposal Guidelines, the 2019 Real Property Acquisition Guidelines, the 2018 Annual Report of the Disposal of Real Property, the 2018 Annual Report of the Acquisition of Real Property and the amended Expenditure Authorization Procedures as set forth in the attached Exhibits.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That pursuant to the provisions of the Public Authorities Accountability Act of 2005, as amended by the Public Authorities Reform Act, Chapter 506 of the Laws of 2009, the Authority hereby reviews and approves the 2019 Guidelines and Procedures for the Disposal of New York Power Authority Real Property and the 2019 Guidelines and Procedures for the Acquisition of Real Property by the New York Power Authority as set forth in Exhibits "4g vi-A" and "4g vi-B," respectively, attached hereto; and be it further

RESOLVED, That pursuant to the provisions of the Public Authorities Accountability Act of 2005, as amended by the Public Authorities Reform Act, Chapter 506 of the Laws of 2009, the Authority hereby reviews and approves the 2018 Annual Report for the Disposal of Real Property and the 2018 Annual Report of the Acquisition of Real Property as set forth in Exhibits "4g vi-C" and "4g vi-C-1," respectively, attached hereto; and be it further

RESOLVED, That the Authority hereby reviews and approves the revised Expenditure Authorization Procedures for Claims Settlement and Payment for Real Estate as set forth in Exhibit "4g vi-D" attached hereto; and be it further

RESOLVED, That Authority staff may take any and all steps necessary or convenient to implement such Guidelines and Expenditure Authorization Procedures; and be it further

RESOLVED, That the Chairman, the Vice Chair, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things and take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

vii. **Annual Review and Approval of Certain Policies for NYPA and Canal Corporation**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees and Board of Directors are requested to approve certain policies for NYPA and Canal Corporation as required by Section 2824 of the Public Authorities Law and Section 2 of Article II of the Authority's and Canal Corporation's By-laws.

The Trustees and Board of Directors are also requested to delegate to the President and Chief Executive Officer the authority to modify these policies, as necessary, except in the event that any powers, duties or obligations of the Trustees and Board of Directors would be affected by such modification.

BACKGROUND AND DISCUSSION

Section 2824 of the Public Authorities Law requires the Authority's and Canal Corporation's Boards to, among other things, establish policies regarding the payment of salary, compensation and reimbursements to, and establish rules for the time and attendance of, the chief executive and senior management; and Section 2 of the Authority's and the Canal Corporation's By-laws requires the Trustees and Board of Directors to review and approve annually, the policies and procedures governing: (i) the salary, (ii) compensation, (iii) benefits and (iv) time and attendance of the chief executive and senior management.

The Authority's policies relating to salary, compensation, benefits and time and attendance of its employees, inclusive of the chief executive and all senior management, are attached as Exhibits '4g vii-A' through '4g vii-G' and respectively entitled:

A. Salary Administration (EP 2.1); last revised 02/08/2019

B. Management Non-Exempt and Facility-Based Exempt Overtime (EP 2.4); last revised 01/22/2019

C. Management Exempt Emergency Crisis Response Compensation (EP 2.5); last revised 01/22/2019

D. Management Employee Categories and Eligibility for Benefits (EP 3.1); last revised 02/08/2019

E. Vacation (EP 3.2) last revised 12/18/2018

F. Employee Assistance Program (EP 3.5); last revised 01/02/2019

G. Management Vacation Donation Program (EP 3.11); last revised 12/12/2018

The Canal Corporation policies and documentation relating to salary, compensation, benefits and time and attendance of its Management Confidential employees are attached as Exhibits '4g vii-H' and '4g vii-I' respectively entitled:

H. Navigation Season Stipend (ASB 2018_067)

I. MC NYSPFL ASB-2018-007

RECOMMENDATION

It is recommended that the Trustees and Board of Directors approve the Authority's and Canal Corporation's policies related to salary, compensation, benefits and time and attendance, which are applicable to all Authority and Canal Corporation employees, including the chief executive and senior management. It is further recommended that the Trustees and Board of Directors delegate to the President and Chief Executive Officer the authority to modify these policies, as necessary, except in the event that any powers, duties or obligations of the Trustees and Board of Directors would be affected by such modification.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That pursuant to Section 2824 of the Public Authorities Law and Section 2 of Article II of the Authority's By-laws and Section 2 of Article II of the Canal Corporation's By-laws the below-listed policies of the Authority and Canal Corporation relating to salary, compensation, benefits and time and attendance of its employees, including the chief executive and senior management, are hereby approved:

A. Salary Administration (EP 2.1); last revised 02/08/2019

B. Management Non-Exempt and Facility-Based Exempt Overtime (EP 2.4); last revised 01/22/2019

C. Management Exempt Emergency Crisis Response Compensation (EP 2.5); last revised 01/22/2019

D. Management Employee Categories and Eligibility for Benefits (EP 3.1); last revised 02/08/2019

E. Vacation (EP 3.2) last revised 12/18/2018

F. Employee Assistance Program (EP 3.5); last revised 01/02/2019

G. Management Vacation Donation Program (EP 3.11); last revised 12/12/2018

H. Navigation Season Stipend (ASB 2018 067)

I. MC NYSPFL ASB-2018-007

AND BE IT FURTHER RESOLVED, That the President and Chief Executive Officer is authorized to modify the foregoing policies, as necessary, except in the event that any powers, duties or obligations of the Trustees and Board of Directors would be affected by such modification; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority and Canal Corporation are, and each of them hereby is, authorized on behalf of the Authority and Canal Corporation to do any and all things and take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

viii. **Annual Report on New York Power Authority's Strategic Plan**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are presented with the Authority's proposed 2019 Strategic Plan for adoption, as set forth in Exhibit '4g viii-A' attached hereto.

BACKGROUND

The Authority's By-Laws state that 'the Trustees shall annually review a Strategic Plan developed by the Executive Management Committee, under the supervision of the Strategic Planning and Energy Policy Committee, which shall become the basis for the development of departmental plans, the annual budget and the capital expenditure plan' (By-Laws, Article VII – Fiscal Management , Section 2 – Strategic Plan). In addition, Public Authorities Law § 2824-a requires state authorities to develop and adopt a mission statement.

The Authority has, for many years, annually reviewed and updated, as necessary, its mission statement and strategic plan. In late 2013, the Authority drafted a strategic plan containing a revised mission statement to advance alignment with the changing needs of its customers and to support the future energy structure of New York. In 2017, the Authority drafted a refreshed strategic plan that places the customer at the center of everything the Authority does, and specifies that digitization will enable NYPA's key strategic promises.

DISCUSSION

- In 2013, Authority staff undertook an examination of its corporate strategy in the context of a rapidly changing energy environment. This effort mainly consisted of three phases, each lasting several months.

- In mid-2013, Authority staff met with external stakeholders representing customers, energy leaders, government officials, financial organizations, universities, and others to discuss customer requirements, key trends and opportunities in the energy industry.

- In late 2013, a thirty-two member strategy team convened several times to discuss how the Authority could proceed, boldly and innovatively, as the energy industry continues its evolution from a traditional, centralized model to a more innovative, customer-centric model. Three key drivers emerged from the team's research: (1) customer value; (2) stewardship for the future; and (3) flexibility of infrastructure and organizations.

- In 2014, a comprehensive business plan was constructed for six strategic initiatives outlining the business case and implementation plan for each.

- New mission and vision statements for the Authority, drafted by the strategy team, were approved by the Trustees in March 2014.

- In April 2015, a group of 40 senior employees from across the Authority met to re-evaluate the strategic plan, mission, vision, goals and initiatives in light of changes to its business environment.

- In 2016, the Strategy program management office was launched to provide support and governance for the execution of milestones associates with each of these six initiatives.

- In 2017, the Authority refreshed its strategic plan. The 2017 Strategy refresh, while keeping the six strategic initiatives from the previous plan the same, refocuses those initiatives into three key strategic themes: customer success, cost leadership, and innovation. In addition, the 2017 Strategy Program makes four key promises to the Authority's customers: 1) becoming a market leader for energy efficiency and renewable energy services; 2) offering the best deal, by far, in electricity commodity management for its supply customers; 3) having the largest market share of new transmissions and large-scale renewable projects; and 4) leading in energy storage and electric vehicle infrastructure and services in New York. These four promises will be enabled by the Authority becoming the first end-to-end digital utility.

- No edits were made to the Authority's strategic plan during 2018.

The 2019 Mission Statement and Strategic Plan contains no substantive changes from the strategic vision outlined in 2018 and continues to serve to inspire and provide direction as the Authority embraces an evolving energy industry in New York State.

RECOMMENDATION

The Executive Vice President and Chief Financial Officer recommends that the Trustees adopt the 2019 Strategic Plan presented herein.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That the Trustees hereby acknowledge that they have read, understand and adopt the Authority's 2019 Strategic Plan, attached hereto as Exhibit "4g viii-A," as discussed in the foregoing report of the President and Chief Executive Officer; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things and take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

ix. **2018 Annual Board of Directors Evaluation Pursuant to Sections 2800 and 2824 of the Public Authorities Law and Guidance of the Authorities Budget Office**

The Chair of the Governance Committee submitted the following report:

"SUMMARY

The Trustees and the Canal Corporation Board of Directors are requested to approve the annual Board of Directors evaluation summary for 2018 and authorize the Corporate Secretary to submit this report to the Governor, legislative leaders, the State Comptroller and the Authorities Budget Office ('ABO') pursuant to Section 2800 of the Public Authorities Law, as amended by the Public Authorities Accountability Act of 2005 ('PAAA'), within 90 days of the close of the Authority's fiscal year.

BACKGROUND

The 2009 Public Authorities Reform Act requires that the board of every state and local public authority conduct an annual evaluation of its performance. Board member comments are protected from disclosure under Article 6 of the Public Officers Law, but the results of the assessment are to be provided to the ABO. To the extent that the results of this evaluation demonstrate the need for the board to improve its performance, amend its practices or procedures, or clarify its expectations of board members, the board is expected to implement suitable corrective actions immediately.

DISCUSSION

The Governance Committee considered the 2018 Board evaluation at its meeting of March 26, 2019, and voted to recommend that Authority and Canal Corporation Boards approve the summary of the 2018 evaluation and authorize the Corporate Secretary to submit this evaluation summary to the Governor, legislative leaders, the State Comptroller and the Authorities Budget Office ('ABO') pursuant to Section 2800 of the Public Authorities Law, as amended by the Public Authorities Accountability Act of 2005 ('PAAA'), within 90 days of the close of the Authority's fiscal year.

FISCAL INFORMATION

There is no anticipated fiscal impact.

RECOMMENDATION

The Governance Committee recommends that the Trustees approve the attached 2017 evaluation summary (Exhibit '4g ix-A') and authorize its submittal as discussed herein.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the Chair of the Governance Committee, was unanimously adopted.

WHEREAS, pursuant to Sections 2800(1)(a)(15) and 2800(2)(a)(15) and Section 2824(7) of the Public Authorities Law and Guidance of the Authorities Budge Office, the Authority is required to annually submit a summary of the Board of Directors Evaluation to the Governor, the Chairman and Ranking Minority Member of the Senate Finance Committee, the Chairman and Ranking Minority Member of the Assembly Ways and Means Committee, the

State Comptroller and the Authorities Budget Office, within 90 days after the end of its fiscal year;

NOW THEREFORE BE IT RESOLVED, That pursuant to Sections 2800(1)(a)(15) and 2800(2)(a)(15) and Section 2824(7) of the Public Authorities Law and Guidance of the Authorities Budge Office, the 2018 Annual Board Member Evaluation Summary is hereby adopted and the Corporate Secretary is hereby authorized to submit to the Governor, the Chairman and Ranking Minority Member of the Senate Finance Committee, the Chairman and Ranking Minority Member of the Assembly Ways and Means Committee, the State Comptroller, and the Authorities Budget the adopted 2018 summary; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer, the Executive Vice President and Chief Financial Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things and take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

h. Real Estate

i. **Lease of Communications Tower Space – One World Trade Center, New York**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to authorize entry into a lease to install, operate and maintain four (4) microwave dishes, together with appurtenant equipment, on the communications tower located on the top of One World Trade Center in support of the Authority's Communications Backbone Program ('Program'). One World Trade Center is owned by the Port Authority of New York and New Jersey. It is expected that the lease will be entered into with the building's lease management firm, the Durst Organization.

The Authority's Expenditure Authorization Procedures governing real estate require the Trustees' approval for the acquisition of lease interests, including any extensions, where the additional annual rent exceeds $100,000.00.

BACKGROUND

As part of the Program, the Authority is in the process of building a microwave-based data connectivity system to provide redundant paths connecting operational data from the Authority's power generation facilities to its White Plains office building. The goal of the Program is to establish a robust, secure, and scalable communications network and reduce the Authority's dependency on commercial telecommunications.

The Authority anticipates entering into a number of additional leases for microwave tower sites in the South East New York ('SENY') region. As the tallest building in New York City, One World Trade Center is a significant location for the success of the Program.

DISCUSSION

While the final terms of the lease are subject to final negotiation, it is expected that the annual rental cost for placement of the four microwave dishes and appurtenant equipment will be approximately $120,000.00 per year ($30,000 per dish). The Authority will seek at least a ten-year term to ensure long-term access to this critical location. Any final lease is subject to structural analysis to confirm that the building/location is suitable for placement of the equipment. Authority staff has reviewed local market conditions and has determined that the terms are competitive and reasonable.

FISCAL INFORMATION

Funds required for rent will come from the Authority's Operating Fund.

RECOMMENDATION

The Vice President – Enterprise Shared Services recommends that the Trustees approve the entry into a lease with the Durst Organization to install, operate and maintain four microwave communications towers at One World Trade Center in support of the Authority's Communications Backbone Program.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That the President and Chief Executive Officer and the Vice President – Enterprise Shared Services be, and hereby are, authorized to enter into a lease to install, operate and maintain microwave communications equipment at One World Trade Center on substantially the terms set forth herein, subject to approval of lease documents by the Executive President and General Counsel or his designee; and be it further

RESOLVED, That the Vice President – Enterprise Shared Services, or designee, is hereby authorized to execute any and all other agreements, papers or instruments on behalf of the Authority that may be deemed necessary or desirable to carry out the foregoing, subject to the approval by the Executive Vice President and General Counsel; and be it further

RESOLVED, That the Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things and take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

i. Canal Corporation

i. **Procurement (Services) Contract – Canalway Trail from New Swamp Road to Fort Ann - Contract Award**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

Due to the need to meet and maintain the Canal Corporation's project schedule, the proposed construction contract **(4400003700)** with **James H. Maloy, Inc. ('JHM')** became effective February 4, 2019, for the initial interim award amount of $1,400,000.00, subject to the Board of Directors ('Board') approval as soon as practicable, in accordance with the Canal Corporation Guidelines for Procurement Contracts and EAP's. The interim award allows the contractor to mobilize their operation, survey the 6+ mile long project site and cut the trees required to build the trail prior to the federal environmental regulatory deadline date of March 31, 2019. The Board is requested to approve the full award of a construction services contract related to Inquiry No. K18-10278927MR to JHM of Loudonville, New York for the construction of the Canalway Trail from New Swamp Road to Fort Ann in the Town of Kingsbury and Fort Ann, Washington County, New York in the amount of $6,741,400.00. Construction is expected to conclude by the contract completion date of November 20, 2020.

In accordance with the Canal Corporation's Procurement Guidelines and Expenditure Authorization Procedures, Board approval is required when the award of services contracts and/or Purchase Order Releases exceed one year in term or the value of such contracts exceeds $6,000,000.

BACKGROUND

The project will construct a 6.3 mile segment of the Champlain Canalway Trail linking New Swamp Road with Champlain Lock C-9 and another established section of the Champlain Canalway Trail north of Baldwin Corners Road. The project is within the limits of the Towns of Kingsbury and Fort Ann, both located in Washington County. The canal system, as a whole, is a listed National Historic Landmark. This project enhances and expands the prominence of the system considering recreational and economic impact on the Empire State as the original historic Champlain Canal.

Construction activities will include installing temporary erosion and sediment control devices, work zone traffic control, clearing brush and removing trees and stumps, excavating and grading for a 10-foot wide asphalt and/or stone dust shared use path, constructing railing systems, swales and other drainage structures, constructing two pedestal bridges, paving existing parking lots, installing picnic tables, benches and bike racks. Portions of the trail will ultimately be designated as a snowmobile trail in the winter.

DISCUSSION

In response to an advertisement issued on November 27, 2018 for the Canalway Trail from New Swamp Road to Fort Ann in the Towns of Kingsbury and Fort Ann, Washington County, New York, Inquiry No. K18-10278927MR, five (5) proposals ('bids') were received and publicly opened and read on December 20, 2018. The bids were reviewed by an Evaluation Committee consisting of Corporation staff from Design, Construction and Procurement and New York Power Authority Strategic Supply Management staff.

FISCAL INFORMATION

All associated expenditures will be paid from a combination of the 2005 NYS Bond Act Funds, Empire State Trails and the Canal Corporation Capital Fund, as appropriate.

RECOMMENDATION

The Evaluation Committee recommends that the Board approve the award of construction services contract to James H. Maloy, Inc. of Loudonville, New York for the construction of the Canalway Trail from New Swamp Road to Fort Ann in the Town of Kingsbury and Fort Ann, Washington County, New York in the amount of $6,741,400.00. The contract term will be for approximately 23 months, effective on February 4, 2019 through November 20, 2020, with a total value of $6,741,400.00.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That pursuant to the Canal Corporation's Procurement Guidelines and Expenditure Authorization Procedures, approval is hereby granted to award Contract 4400003700 (in association with Inquiry No. K18-10278927MR), with a start date on February 4, 2019, completion date of November 20, 2020, and a total award value of $6,741,400.00, to James H. Maloy, Inc. for the construction of the Canalway Trail from New Swamp Road to Fort Ann in the Town of Kingsbury and Fort Ann, Washington County, New York, as recommended in the foregoing report of the President and Chief Executive Officer;

Contractor	Location	Contract Award
James H. Maloy, Inc.	Loudonville, NY	$6,741,400.00

Contract 4400003700
Inquiry: K18-10278927MR

AND BE IT FURTHER RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer, and all other officers of the Canal Corporation are, and each of them hereby is, authorized on behalf of the Canal Corporation to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

ii. **Procurement (Services) Contract – Canal Corporation Share of NYS Department of Transportation Contract for Erie Canal Lift Bridge Rehabilitations in Fairport and Spencerport - Contract Award**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Board of Directors ('Board') is requested to approve the award of a contract for the Canal Corporation's share of NYSDOT's Contract D263770 with Hohl Industrial Services, Inc. of Tonawanda, NY for Erie Canal Lift Bridge Rehabilitations in the Villages of Fairport and Spencerport, Monroe County, New York, in the amount of $9,473,466.95. This equals the Canal Corporation project share based on the low bidder's pricing of $16,254,778.84 including a 10% contingency that was requested by NYSDOT and which will be released upon approval by the Canal Corporation. The Canal Corporation's share amount is based upon the 2015 NYSDOT and the NYS Thruway Authority/Canal Corporation 'Canal Lift and Movable Bridges Agreement' which identifies the cost responsibilities of each agency. NYPA has recognized this agreement which stipulates that the Canal Corporation is responsible for funding 100% of the capital improvements of all lifting mechanisms and components on lift bridges over the Erie Canal.

Construction began in January 2019 and is expected to conclude by the project completion date of July 2021.

In accordance with the Canal Corporation's Procurement Guidelines and Expenditure Authorization Procedures, Board approval is required when the award of services contracts and/or Purchase Order Releases exceed one year in term or the value of such contracts exceeds $6,000,000.

BACKGROUND

The Fairport Main Street lift bridge (BIN 4443220) was originally built in 1914. It was rehabilitated in 1986 and painted in 1993. Structural deficiencies have been documented through the NYSDOT biennial inspection program, causing red, yellow and safety flags to be issued. Stringers were replaced in 2013 in response to structural deficiencies. The bridge exhibits widespread deterioration that has led to reduced load carrying capacity causing the structure to be listed as an 'R' restricted bridge.

The Spencerport Union Street lift bridge (BIN 4443230) was originally built in 1914. It was rehabilitated in 1973 and cleaned and painted in 1990. Emergency steel repairs were performed in 2013 and 2014 by NYSDOT maintenance forces. Structural deficiencies have been documented through the NYSDOT biennial inspection program, causing red, yellow and safety flags to be issued. The bridge exhibits widespread deterioration that has led to reduced load-carrying capacity causing the structure to be listed as an 'R' restricted bridge.

The current project has these objectives:

1. Address the structural deficiencies of the Fairport lift bridge to restore its legal load-carrying capacity over the Erie Canal for 20 years without load posting.
2. Address the structural deficiencies of the Spencerport lift bridge to restore its legal load-carrying capacity over the Erie Canal for 20 or more years without load posting.
3. Minimize required maintenance and transportation user costs on both bridges.
4. Update the controls, electrical and mechanical systems on both bridges.
5. Maintain and preserve the historically significant lift bridge and control tower on both bridges.

DISCUSSION

On August 30, 2018, an advertisement was posted in the New York State *Contract Reporter* by the NYSDOT and on its website for the Lift Bridge Rehabilitations on State Routes 250 and 259 over the Erie Canal in Fairport and Spencerport; three proposals ('bids') were received and publicly opened by NYSDOT on October 11, 2018. The bids were reviewed by the Office of Construction and the Contract Management Bureau at NYSDOT.

FISCAL INFORMATION

All associated expenditures will be paid from the Canal Corporation's Operating Fund, as appropriate.

RECOMMENDATION

The NYS Canal Corporation Evaluation Committee concurs with NYSDOT's evaluation and recommends that the Board of Directors approve award of a contract with NYSDOT for the Canal Corporation's share of the Lift Bridge Rehabilitations in the Villages of Fairport and Spencerport, in the amount of $9,473,466.95. This equals the Canal Corporation project share based on the low bidder's pricing, including a 10% contingency that was requested by NYSDOT and which will be released upon approval by the Canal Corporation's Board of Directors.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That pursuant to the Canal Corporation's Procurement Guidelines and Expenditure Authorization Procedures, approval is hereby granted to award a Contract for the Canal Corporation share of NYSDOT Contract, D263770, with Hohl Industrial Services, Inc. of Tonawanda, NY for Erie Canal Lift Bridge Rehabilitations in the Villages of Fairport and Spencerport, Monroe County, New York, in the amount of $9,473,466.95 and estimated completion timing of July 2021, as recommended in the foregoing report of the President and Chief Executive Officer;

Contractor	Location	Contract Award
Hohl Industrial Services, Inc.	**Tonawanda, NY**	**$9,473,466.95***

NYSDOT Contract D263770

*** Representing the Canal Corporation share of NYSDOT Contract D263770**

AND BE IT FURTHER RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer, and all

other officers of the Canal Corporation are, and each of them hereby is, authorized on behalf of the Canal Corporation to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

iii. **Procurement (Services) Contract –
On-Call Construction Management –
Additional Funding Request**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Board of Directors ('Board') is requested to approve an aggregate $3.6 million additional funding for Canal Corporation's On-Call Construction Management value contracts previously awarded, via competitive bid, to five firms in the aggregate amount of $10 million for a term of five (5) years commencing January 1, 2017. The value contracts and associated firms are as follows: contract 4700000000, AECOM USA Inc. of New York, NY; contract 4700000001, Arcadis of New York, Inc. of White Plains, NY; contract 4700000002, Greenman-Pederson, Inc. of Albany, NY; contract 4700000003, Mott MacDonald NY, Inc. of Buffalo, NY; and contract 4700000004, Ravi Engineering & Landscaping, PC of Rochester, NY.

Due to the need to adequately fund design assignments scheduled to be initiated in 2019 prior to the Board meeting on March 26, 2019, approval is also requested for interim funding in the aggregate amount of $1.6 million. These services are required to continuously support the operations and maintenance of the NYS Canal Corporation facilities and will continue to be provided on an 'on call' basis.

In accordance with the Corporation's Guidelines for Procurement Contracts and Expenditure Authorization Procedures ("EAPs"), Canal Corporation's Executive Deputy level, NYPA's Vice President, Strategic Supply Management, and NYPA's Chief Operating Officer's approval is required when requesting additional funding of personal service contracts that exceed 25% of the original approved amount.

BACKGROUND

With NYPA taking over the operations and maintenance responsibility of the NYS Canal System on January 1, 2017, pursuant to Part TT of Chapter 54 of the Laws of 2016, NYPA developed and progressed Inquiry # Q16-6114MH to secure 'on call' construction management services for the Canal Corporation. These on-call contracts for construction management services provide the Canal Corporation with a vehicle for rapid response to a wide variety of planned and emergent construction management tasks. The award of these multiple contracts has ensured that adequate skill coverage is available, as required, supplementing the Canal Corporation's staff in some areas and providing timely access to specialty skills, in others.

On December 2, 2016, the Trustees approved the award of these on-call contracts for construction management services in the aggregate amount of $10 million. Since January 2017, the Corporation has been utilizing these contracts at an average rate of $400,000 per month. In addition to the average monthly spend, construction inspection assignments with a value of $2 million are scheduled to be initiated between February 2019 and May 2019.

RECOMMENDATION

To adequately fund current and proposed Construction Management service support, an aggregate $3.6 million additional funding for the Canal Corporation's On-Call Construction Management services contracts for contract 4700000000, AECOM USA Inc. of New York, NY; contract 4700000001, Arcadis of New York, Inc. of White Plains, NY; contract 4700000002, Greenman-Pederson, Inc. of Albany, NY; contract 4700000003, Mott MacDonald NY, Inc. of Buffalo, NY; and contract 4700000004, Ravi Engineering & Landscaping, PC of Rochester, NY is recommended.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That pursuant to the Canal Corporation's Procurement Guidelines and Expenditure Authorization Procedures, approval is hereby granted to award additional funding in the aggregate amount of $3.6 million for On-Call Construction Management services for contract 4700000000, AECOM USA Inc. of New York, NY; contract 4700000001, Arcadis of New York, Inc. of White Plains, NY; contract 4700000002, Greenman-Pederson, Inc. of Albany, NY; contract 4700000003, Mott MacDonald NY, Inc. of Buffalo, NY; and contract 4700000004, Ravi Engineering & Landscaping, PC of Rochester, NY, as recommended in the foregoing report of the President and Chief Executive Officer;

Contractor	Location	Contract Award
AECOM USA, Inc.	New York, NY	
Arcadis of New York, Inc.	White Plains, NY	
Greenman-Pederson, Inc.	Albany, NY	
Mott MacDonald NY, Inc.	Buffalo, NY	
Ravi Engineering & Landscaping, PC	Rochester, NY	
	Total	$3,600,000.00

AND BE IT FURTHER RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer, and all other officers of the Canal Corporation are, and each of them hereby is, authorized on behalf of the Canal Corporation to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

iv. **Procurement (Services) Contract – On-Call Engineering Services – Additional Funding Request**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Board of Directors ('Board') is requested to approve an aggregate $3.5 million additional funding for Canal Corporation's On-Call Engineering value contracts previously awarded, via competitive bid, to five firms in the aggregate amount of $10 million for a term of five (5) years commencing January 1, 2017. The value contracts and associated firms are as follows: contract 4700000005, Bergmann Associates, Architects, Engineers, Landscape Architects & Surveyors, DPC of Rochester, NY; contract 4700000006, CHA Consulting, Inc. of Albany, NY; contract 4700000007, LaBella Associates, DPC of Rochester, NY; contract 4700000009, O'Brien & Gere Engineers, Inc. of Syracuse, NY; and contract 4700000010, Paul C. Rizzo Engineering (NY), PLLC of Tarrytown, NY.

Due to the need to adequately fund design assignments scheduled to be initiated in 2019 prior to the Board meeting on March 26, 2019, approval is also requested for interim funding in the aggregate amount of $1.7 million. These services are required to continuously support the operations and maintenance of the NYS Canal Corporation facilities and will continue to be provided on an 'on call' basis.

In accordance with the Corporation's Guidelines for Procurement Contracts and Expenditure Authorization Procedures ('EAPs'), Canal Corporation's Executive Deputy level, NYPA's Vice President, Strategic Supply Management, and NYPA's Chief Operating Officer's approval is required when requesting additional funding of personal service contracts that exceed 25% of the original approved amount.

BACKGROUND

With NYPA taking over the operations and maintenance responsibility of the NYS Canal system on January 1, 2017, pursuant to Part TT of Chapter 54 of the Laws of 2016, NYPA developed and progressed Inquiry # Q16-6115MH to secure 'on call' engineering services for the Canal Corporation. These on-call contracts for engineering services provide the Canal Corporation with a vehicle for rapid response to a wide variety of planned and emergent Engineering tasks. The award of these multiple contracts has ensured that adequate skill coverage is available, as required, supplementing the Canal Corporation's staff in some areas and providing timely access to specialty skills, in others.

On December 2, 2016, the Trustees approved the award of these on-call contracts for engineering services in the aggregate amount of $10 million. Since January 2017, the Canal Corporation has been utilizing these contracts at an average rate of $350,000 per month. In addition to the average monthly spend, planned and emergent project design assignments with a value of $2.1 million are scheduled to be initiated between February 2019 and May 2019.

RECOMMENDATION

To adequately fund current and proposed Construction Management service support, an aggregate $3.5 million additional funding for the Canal Corporation's On-Call Construction Management services contracts for contract 4700000005, Bergmann Associates, Architects, Engineers, Landscape Architects & Surveyors, DPC of Rochester, NY; contract 4700000006, CHA Consulting, Inc. of Albany, NY; contract 4700000007, LaBella Associates, DPC of Rochester, NY; contract 4700000009, O'Brien & Gere Engineers, Inc. of Syracuse, NY; and contract 4700000010, Paul C. Rizzo Engineering (NY), PLLC of Tarrytown, NY is recommended.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That pursuant to the Canal Corporation's Procurement Guidelines and Expenditure Authorization Procedures, approval is hereby granted to award additional funding in the aggregate amount of $3.5 million for On-Call Construction Management services for contract 4700000005, Bergmann Associates, Architects, Engineers, Landscape Architects & Surveyors, DPC; contract 4700000006, CHA Consulting, Inc.; contract 4700000007, LaBella Associates, DPC; contract 4700000009, O'Brien & Gere Engineers, Inc.; and contract 4700000010, Paul C. Rizzo Engineering (NY), PLLC, as recommended in the foregoing report of the President and Chief Executive Officer;

Contractor	Location	Contract Award
Bergmann Associates, Architects, Engineers, Landscape Architects & Surveyors, DPC	Rochester, NY	
CHA Consulting, Inc.	Albany, NY	
CHA Consulting, Inc.	Rochester, NY	
O'Brien & Gere Engineers, Inc.	Syracuse, NY	
Paul C. Rizzo Engineering (NY), PLLC	Tarrytown, NY	
	Total	$3,500,000.00

AND BE IT FURTHER RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer, and all other officers of the Canal Corporation are, and each of them hereby is, authorized on behalf of the Canal Corporation to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

V. **Annual Review and Approval of Guidelines and Procedures for the Disposal of Real Property, Guidelines and Procedures for the Acquisition of Real Property, and Annual Reports for the Disposal and Acquisition of Real Property**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Directors are requested to review and approve the following, which comply with the requirements of the Public Authorities Accountability Act of 2005 ('PAAA') as amended by the Public Authorities Reform Act, Chapter 506 of the Laws of 2009:

(1) 2019 Guidelines and Procedures for the Disposal of Canal Corporation Real Property ('Real Property Disposal Guidelines') for transfers of land or interests in land, set forth in Exhibit '4i v-A'; and

(2) 2019 Guidelines and Procedures for the Acquisition of Real Property by the Canal Corporation ('Real Property Acquisition Guidelines') set forth in Exhibit '4i v-B'; and

(3) 2018 Annual Report of the Disposal of Real Property set forth in Exhibit '4i v-C'; and

(4) 2018 Annual Report of the Acquisition of Real Property set forth in Exhibit '4i v-C-1'

BACKGROUND

On January 13, 2006, the PAAA was enacted to codify model governance principles for New York State's public authorities to further accountability and transparency. The PAAA was subsequently amended by the Public Authorities Reform Act (Chapter 506 of the Laws of 2009). Among its provisions, the PAAA established rules for the disposal and acquisition of real property owned by public authorities. In addition to requiring each authority to draft and annually review and approve guidelines consistent with the legislation, each authority must also prepare an annual report of all real property of such authority having an estimated fair market value in excess of fifteen thousand dollars that the authority acquires or disposes of during such period. The report shall contain the price received or paid by the authority and the name of the purchaser or seller for all such property sold or bought by the authority during such period.

The 2018 Real Property Disposal Guidelines and the 2018 Real Property Acquisition Guidelines set forth the methodology detailing the Corporation's policy regarding the use, award, monitoring and reporting of contracts for the disposal and acquisition of real property and designate a Contracting Officer responsible for the Corporation's compliance with, and enforcement of, such Guidelines. At their meeting of March 20, 2018, the Directors reviewed and approved the Corporation's 2018 Real Property Disposal Guidelines and Real Property Acquisition Guidelines. In 2019, formatting changes were made to both of these Guidelines as set forth in Exhibits '4i v-A' and '4i v- B' attached hereto; however, no substantive changes were made to these Guidelines other than changing the document date from 2018 to 2019.

DISCUSSION

New York Public Authorities Law §2800 requires that the Real Property Disposal Report list the real property disposal transactions conducted during the reporting period having an estimated fair market value in excess of $15,000.00, including a description of the property, the purchaser's name and the price received by the Corporation. Similarly, the Real Property Acquisition Report lists the real property acquisition transactions conducted during the reporting period having an estimated fair market value in excess of $15,000.00, including a description of the property, the seller's name and the price received by

the Corporation. During this reporting period, there were six (6) disposals with an estimated market value in excess of $15,000 and no acquisitions of property with an estimated market value in excess of $15,000.

The Directors are now requested to review and approve the 2019 Real Property Disposal Guidelines (Exhibit '4i v-A'), the 2019 Real Property Acquisition Guidelines (Exhibit '4i v-B'), the Corporation's 2018 Annual Report of the Disposal of Real Property (Exhibit '4i v-C') and the Corporation's 2018 Annual Report of the Acquisition of Real Property (Exhibit 'C-1').

Both Guidelines, if approved, will be posted on the Corporation's internet website, as will be the 2018 Annual Reports. On or before the 31st day of March, the Real Property Disposal Guidelines, the Real Property Acquisition Guidelines and the corresponding 2018 Annual Reports, as reviewed and approved by the Directors, will be filed with the State Comptroller, the Director of the Budget, the Commissioner of General Services, the State Legislature and the Authorities Budget Office.

FISCAL INFORMATION

There will be no financial impact on the Corporation.

RECOMMENDATION

The Vice President – Enterprise Shared Services recommends that the Directors approve the 2019 Real Property Disposal Guidelines, the 2019 Real Property Acquisition Guidelines, the 2018 Annual Report of the Disposal of Real Property and the 2018 Annual Report of the Acquisition of Real Property as set forth in the attached Exhibits.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That pursuant to the provisions of the Public Authorities Accountability Act of 2005, as amended by the Public Authorities Reform Act, Chapter 506 of the Laws of 2009, the Corporation hereby reviews and approves the 2019 Guidelines and Procedures for the Disposal of Canal Corporation Real Property and the 2019 Guidelines and Procedures for the Acquisition of Real Property by the Canal Corporation as set forth in Exhibits "4i v-A" and "4i v-B," respectively, attached hereto; and be it further

RESOLVED, That pursuant to the provisions of the Public Authorities Accountability Act of 2005, as amended by the Public Authorities Reform Act, Chapter 506 of the Laws of 2009, the Corporation hereby reviews and approves the 2018 Annual Report for the Disposal of Real Property and the 2018 Annual Report of the Acquisition of Real Property as set forth in Exhibits "4i v-C" and "4i v-C-1," respectively, attached hereto; and be it further

RESOLVED, That Corporation staff may take any and all steps necessary or convenient to implement such Guidelines; and be it further

RESOLVED, That the Chairman, the Director of Canals, the Vice President – Enterprise Shared Services and all other officers of the Corporation are, and each of them hereby is, authorized on behalf of the Corporation to do any and all things and take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel, and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer, and all other officers of the Canal Corporation are, and each of them hereby is, authorized on behalf of the Canal Corporation to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

vi. **Annual Report of Procurement Contracts, Guidelines for Procurement Contracts and Annual Review of Open Procurement Service Contracts**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Board of Directors are requested to approve the 2018 Annual Report of Procurement Contracts ('Annual Report') (Exhibit '4i vi-A-3') and the Canal Corporation's Guidelines for Procurement Contracts ('Guidelines') (Exhibit '4i vi-A-2') and to review open service contracts exceeding one year that were active in 2018 as detailed in the Annual Report (Exhibit '4i vi-A-3'). An Executive Summary is set forth in Exhibit '4i vi-A-1.'

BACKGROUND

Section 2879 of the Public Authorities Law ('PAL') governs the administration and award of procurement contracts equal to or greater than $5,000. Section 2879 of the PAL requires public authorities to adopt comprehensive guidelines detailing their operative policy and instructions concerning the use, awarding, monitoring and reporting of procurement contracts. The Canal Corporation Guidelines are being proposed here for adoption for the first time. Until this time, Canal Corporation has been following the Authority's Guidelines.

Section 2879 of the PAL also requires authorities to review and approve such guidelines annually and to file a report regarding procurement contracts with the Director of the Division of the Budget, the Department of Audit and Control, the Department of Economic Development, the Senate Finance Committee, the Assembly Ways and Means Committee and the Authorities Budget Office. The Annual Report must include a copy of the Canal Corporation's current Guidelines, details concerning any changes to the Guidelines during the year and particular information concerning procurement contracts. For each procurement contract included in the report, the following information must be identified:

> *[A] listing of all procurement contracts entered into [by the Authority], all contracts entered into with New York State business enterprises and the subject matter and value thereof, all contracts entered into with certified minority or women-owned business enterprises and the subject matter and value thereof, all referrals made and all penalties imposed pursuant to section three hundred sixteen of the executive law, all contracts entered into with foreign business enterprises, and the subject matter and value thereof, the selection process used to select such contractors, all procurement contracts which were exempt from the publication requirements of article four-C of the economic development law, the basis for any such exemption and the status of existing procurement contracts.*

Lastly, § 2879 of the PAL requires an annual review by the Board of Directors of open service contracts exceeding one year, which are also included in the Annual Report.

DISCUSSION

The 2018 Annual Report is attached for the Board of Directors' review and approval (Exhibit '4i vi-A-3'). The Annual Report reflects activity for all procurement contracts equal to or greater than $5,000, as identified by the Authority's SAP Enterprise Resource Planning ('ERP') system, that were open, closed or awarded in 2018, including contracts that were extended into 2019 or beyond. All additional information required by the statute is also included. The Board of Directors are requested to approve the attached Annual Report pursuant to §2879 of the PAL prior to submittal thereof to the Director of the Division of the Budget, the Department of Audit and Control, the Department of Economic Development, the Senate Finance Committee, the Assembly Ways and Means Committee and the Authorities Budget Office.

A copy of the Canal Corporation's Guidelines effective March 31, 2019 (Exhibit '4i vi-A-2') is attached to the Annual Report. These Guidelines are amended in accordance with certain provisions of State Finance Law §§ 139-j and 139-k, New York Public Officers Law § 73(8), and as further set forth in Exhibit '4i vi-A-1.'

The Canal Corporation's Guidelines generally describe the process for soliciting proposals and awarding contracts. Topics detailed in the Guidelines include solicitation requirements, evaluation criteria, contract award process, contract provisions, change orders, Minority- and Women-owned Business Enterprise ('MWBE') requirements, employment of former officers and reporting requirements.

FISCAL INFORMATION

There will be no financial impact on the Canal Corporation.

RECOMMENDATION

The Executive Vice President and Chief Financial Officer and the Vice President – Strategic Supply Management recommend that the Board of Directors approve the 2018 Annual Report of Procurement Contracts, the Canal Corporation's Guidelines for Procurement Contracts and the review of open service contracts as attached hereto in Exhibits '4i vi-A-1' through '4i vi-A-3.'

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That pursuant to Section 2879 of the Public Authorities Law, the Annual Report of Procurement Contracts, as listed in Exhibit "4i vi-A-3," and the Guidelines for the use, awarding, monitoring and reporting of Procurement Contracts (Exhibit "4i vi-A-2"), as amended and attached hereto, be, and hereby are, approved; and be it further

RESOLVED, That the open service contracts exceeding one year be, and hereby are, reviewed and approved; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

vii. **Annual Review and Approval of Guidelines for, and Annual Report of the Disposal of Personal Property**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Board of Directors ('Board') are requested to review and approve the Guidelines for the Disposal of Canal Corporation's Personal Property ('Personal Property Guidelines'), which address the disposal of Canal Corporation-owned materials, tools, equipment and vehicles, in compliance with Public Authorities Law §2896. The Personal Property Guidelines are attached hereto as Exhibit '4i vii-A.' The Board is also requested to review and approve the 2018 Annual Report of the Disposal of Personal Property over $5,000, attached hereto as Exhibit '4i vii-A-1.'

BACKGROUND

On January 13, 2006, the Public Authorities Accountability Act of 2005 ('PAAA') was enacted to codify model governance principles for New York State's public authorities to further accountability and transparency. Among its provisions, the PAAA, and as later amended by the Public Authorities Reform Act of 2009, established requirements for the disposal of public authority personal property. The law also required each public authority to draft guidelines consistent with the legislation dealing with these issues, to review and approve such guidelines annually and to prepare an annual report of the disposal of personal property (including the full description, name of the purchaser and price received for all such property disposed of during such period). Such Guidelines were initially approved for Canal Corporation by the Board at its meeting on September 26, 2017.

DISCUSSION

The Personal Property Guidelines set forth the methodology detailing Canal Corporation's policy regarding the use, award, monitoring and reporting of the disposal of personal property and designate a Contracting Officer responsible for Canal Corporation's compliance with, and enforcement of, such Guidelines.

Staff has reviewed the Personal Property Guidelines and recommends minor changes in definition for 'Relative,' and employee possession and use of discarded Canal Corporation property. The clean copy, attached hereto as Exhibit '4i vii-A' and as approved for submission to the full Board by the Governance Committee at its meeting on March 26, 2019, is provided for the Board's review and approval.

The 2018 Report of Personal Property Disposal, attached hereto as Exhibit '4i vii-A-1,' is comprised of 19 records with a total value of $194,555.00 (13 of which are Fleet-related with a value of $116,850.00 and 6 which are Facilities related with a value of $77,705.00)

Upon annual review and approval by the Board, the Guidelines and corresponding Annual Report will be filed on or before the 31st day of March with the State Comptroller, the Director of the Division of the Budget, the Commissioner of General Services, the State Legislature and the Authorities Budget Office and posted on the Corporation's internet website, in compliance with applicable law.

FISCAL INFORMATION

There will be no financial impact on the Canal Corporation.

RECOMMENDATION

The Executive Vice President and Chief Financial Officer and the Vice President – Strategic Supply Management recommend that the Board of Directors approve the Guidelines for the Disposal of Canal Corporation Personal Property for the disposition of Canal Corporation-owned materials, tools, equipment and vehicles, as set forth in Exhibit '4i vii-A' and the corresponding 2018 Annual Report of the Disposal of Personal Property over $5,000, as set forth in Exhibits '4i vii-A' and '4i vii-A-1,' respectively.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That pursuant to the provisions of the Public Authorities Law, the Canal Corporation hereby reviews and approves the Guidelines for the Disposal of Canal Corporation's Personal Property, as set forth in Exhibit "4i vii-A," and attached hereto; and be it further

RESOLVED, That pursuant to the provisions of the Public Authorities Law, the Canal Corporation hereby reviews and approves the 2018 Annual Report of the Disposal of Personal Property over $5,000, as set forth in Exhibit "4i vii-A-1," and attached hereto; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Canal Corporation are, and each of them hereby is, authorized on behalf of the Canal Corporation to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

viii. **Approval of Revised Expenditure Authorization Procedures**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Board of Directors ('Board') are requested to approve revised Expenditure Authorization Procedures ('EAPs') governing Procurement and Real Estate for the Canal Corporation pursuant to Article VII, Section 5 of the Corporation's By-Laws.

The Board is also requested to continue the delegation to the Chairman of the corporation to modify existing authorization and execution limits of the EAPs relating to commitments for the approval of, award of and change orders to contracts that do not require approval by the Board.

BACKGROUND

Article VII, Section 5 of the Corporation's By-Laws requires that the Board adopt expenditure authorization procedures which, among other things, govern contract approval authorizations and executions, delegation of approval for claims settlements and payment for real estate.

The EAPs were first issued for Canal Corporation in 2017 with the Board of Directors' approval.

DISCUSSION

Good governance dictates that these revised EAPs (attached as Exhibit '4i viii-A') be presented for Board approval. The Governance Committee, at its meeting held on March 26, 2019, reviewed the proposed modifications to the EAPs and recommended adoption by the full Board.

Staff has identified the need to authorize certain additional levels of personnel (titles) to approve commitments, as well as to increase the execution (signing) limits for certain purchasing and other personnel. The recommended changes will rightly place responsibility with those employees already accountable for such functions and further streamline the procurement process, while, at the same time, maintaining appropriate controls on the process.

FISCAL INFORMATION

There will be no financial impact on the Corporation.

RECOMMENDATION

The Vice President – Strategic Supply Management recommend that the Board of Directors approve the proposed modifications to the Expenditure Authorization Procedures.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That the revised Expenditure Authorization Procedures discussed in the attached report of the President and Chief Executive Officer, and attached hereto as Exhibit "4i viii-A," be hereby adopted; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Canal Corporation are, and each of them hereby is, authorized on behalf of the Canal Corporation to do any and all things and take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

ix. **Naming of New Canal Corporation Vessels**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Board of Directors ('Board') are requested to approve the recommendation to name two new vessels, acquired by the Canal Corporation in the spring of 2018, the 'Elizabeth Cady Stanton' and the 'Port Jackson'.

BACKGROUND

Two twin-screw push tugs were acquired in the spring of 2018, and are the first new tugboats to be added to the Canal Corporation's maintenance fleet since 1951. These vessels will be deployed for general canal maintenance, adding reliable new vessels to an aging fleet and allowing for safe and efficient work along the canal. Their state-of-the-art safety features and enhanced maneuverability make them ideal for canal operations. The vessels, which were built in Panama City, Florida, cost approximately $280,000 each.

The first of the two new vessels is to be stationed in Section 7, Albion, and named the 'Elizabeth Cady Stanton' in honor of the New York native who devoted her life to social activism and human rights, most notably in the pursuit of women's suffrage and the abolition of slavery.

The Erie Canal proved vital to the early women's rights and suffrage movements, with Stanton and other notable suffragettes using the Canal as a convenient, efficient and effective mode of transportation from one community to the next as they attempted to rally people behind their efforts to give women the right to vote. Following her lead, Stanton's daughter, Harriet Stanton Blatch, was the architect of the 'Canal Boat Campaign,' with suffragists traveling along the canal on boats and barges decorated with pennants and posters, stopping in each town to talk with women and make speeches.

Born on November 12, 1815, in Johnstown, New York, Stanton served as president of the National Women's Suffrage Association for 20 years. With several other women, Stanton held the Seneca Falls Convention in July 1848, considered to be the first women's rights convention. She continued to write, lecture and advocate on and for women's rights and other reforms of the day until her death, at age 87, in 1902. It was not until 18 years after her death, on August 26, 1920, that the Nineteenth Amendment, allowing women the right to vote, was ratified.

The second of the two new vessels is to be stationed in Section 3, Fonda, and named the 'Port Jackson' in honor of the former Canal town directly south and across the Canal from the City of Amsterdam in the Mohawk Valley.

For the better part of the 19th century, Port Jackson was a thriving canal town directly south of, and across the Mohawk River from Amsterdam. Named in honor of Samuel Jackson, a farmer and merchant, Port Jackson was a quintessential canal community, complete with locks, canal stores, boat facilities, low bridges and a dry dock. It also had a canal basin, making it possible for boats to turn around and easily load or unload cargo and was home to an aqueduct, built to carry the Canal over the South Chuctanunda Creek.

A village separate from the City of Amsterdam until 1888, it was annexed and became part of Amsterdam at that time. Port Jackson now lives on as Amsterdam's 'South Side,' a neighborhood undergoing a revitalization that can be directly linked to its reconnection with its waterfront and the Erie Canal. Several stores and eateries in this area still identify as being in 'Port Jackson' and the public gathering area is named Port Jackson Square. Buildings original to Port Jackson still stand in this neighborhood, some of which are on the National Register of Historic Places.

DISCUSSION

In accordance with Canal Corporation Policy PubAff-Pol-001, to preserve the integrity of Canals' named assets, this dedication is reserved for: 'individuals who have a record of contributions to New York State, the New York State Canal System (current or historic), a significant relationship with the community in which the asset is located, or a significant relationship with the asset itself', as well as 'geographic locations within the designated Canal Corridor and/or with a historic or intrinsic connection to the Canal'. The examination above clearly illustrates that both Elizabeth Cady Stanton and Port Jackson meet the standard.

As provided by the policy, a Naming Committee was formed at the direction of NYPA's Senior Vice President for Public & Regulatory Affairs, Kimberly Harriman. The committee consisted of 5 employees from both the Canal Corporation and the New York Power Authority. The committee presented a report outlining the significant place each of these names holds in the history of New York State's Canal system.

Accordingly, the committee recommends to NYPA's President and Chief Executive Officer that the two new vessels be named the 'Elizabeth Cady Stanton' and the 'Port Jackson.'

RECOMMENDATION

In light of the foregoing, I am pleased to recommend that the two new, twin-screw push tugs acquired by the Canal Corporation be named the 'Elizabeth Cady Stanton' and the 'Port Jackson.'

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

The following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That the New York State Canal Corporation's two newly acquired twin-screw push tugs be named the "Elizabeth Cady Stanton" and the "Port Jackson" in recognition of, respectively: the exceptional life Ms. Stanton led, her impact on the history of this nation and her lifelong connection to the Erie Canal; and of the critical role and lasting impact the community of Port Jackson had on the growth and development of New York State during the early years of the Erie Canal's operation; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Canal Corporation are, and each of them hereby is, authorized on behalf of Canal to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

5. DISCUSSION AGENDA:

a. Strategic Initiatives

i. **President and Chief Executive Officer's Report**

President Quiniones provided highlights of the Authority's performance, to date, to the Board (Exhibit "5a i-A").

NYPA Overall Performance – January 2019

Based on the key corporate metrics, for the month of January, NYPA's overall performance is pointing in the right direction, meeting or exceeding their targets.

At his state-of-the-state address in January, Governor Cuomo laid out some nation-leading energy and environmental goals for the state with specific goals around the electric system as follows:

- 70% renewable generation by 2030 – To date, NYS has approximately 24% renewable energy in its system. Achieving 70% by 2030 is an aggressive goal for NYPA, NYSERDA, PSC and all of the utilities in New York State.

- 100% carbon-free electricity by 2040 – This is also a very aggressive goal and may need some breakthrough technologies for it to occur.

- 9 GW of OSW by 2035 – At present, Long Island Power Authority is planning to put 150 MW of off-shore wind into the pipeline.

  One area associated with off-shore wind that the Governor has emphasized is the creation of a port infrastructure and supply chain in New York State because of its economic development impact and job creation potential.

- 6 GW of solar DG by 2025 – Currently doubling the current goal.

- 3 GW of energy storage by 2030 – Currently doubling the current goal. At present, the Authority does not have a lot of storage aside from its pumped storage in Blenheim, Gilboa (B-G Project); and Lewiston as part of the Niagara Power Project.

- Reduce energy consumption by 185 trillion Btu by 2025 – Energy efficiency is also a very aggressive goal and is twice the rate of the current energy consumption.

NYPA's Strategic Planning Process

In 2014, NYPA developed its 2020 Strategic Plan. To date, the Authority has made tremendous progress, closing out many of the initiatives laid out in its 2020 Strategic Plan.

The Authority recognizes that digital transformation is the catalyst to achieving its strategic initiatives and added some moonshot initiatives related to electric vehicles, grid stability, storage and demand response, and off-shore wind to the Plan which were presented to the Board last year. These initiatives will help the state achieve its aggressive energy and environmental goals.

In 2019, the Authority will be reviewing its initiatives on a long-term horizon of 2040, and a medium-term horizon of 2030 for a NYPA Strategic Plan with very specific initiatives and investment plans to continue along the path set forth by the Governor.

US Virgin Islands and Puerto Rico

The Authority has signed a Mutual Assistance Memorandum of Understand ("MOU") with PREPA, Puerto Rico's utility company, the Water and Power Authority in the US Virgin Islands. The purpose of the MOU is 1) to provide technical assistance to stabilize their grids which are still fragile after hurricane Irma and Maria. There are projects that need to be done in order to keep the systems operating on a day-to-day basis; and 2) to provide assistance on how to rebuild and modernize their power systems, going forward, and how to apply for federal funding to assist them in rebuilding the systems.

To that end, the Authority is seeking assistance from LIPA with federal requisition or application for funds. In addition, the Authority has a team of employees in Puerto Rico and the US Virgin Islands providing technical and management support to these utility organizations. This is a unique opportunity for NYPA to help them rebuild their systems, which will not only be safe, reliable, and affordable for their citizens, but also consistent with the vision of addressing climate change.

b. Financial Operations

ii. **Chief Financial Officer's Report**

Mr. Lee Garza, Senior Vice President of Financial Operations & Acting Controller, provided highlights of the Authority's financial performance, to date, to the Board (Exhibit "5b i-A").

January 2019 Year-to-Date Net Income

Net Income performance year to date is lower for the month of January by $5 million. This is related to a timing difference associated with some of the Authority's transmission margins in the negative variance of $5.7 million that is expected to be fully reversed over the course of the year.

Generation Margins - were down by $4.8 million. The lower margins are driven by lower-than-budgeted energy, and offset by favorable variances and hydro flows, hedge settlements, and the sale of natural gas inventory.

Transmission Margins - The $5.7 million negative variance for transmission margin is related to a timing delay of revenue recognition. This is expected to be fully reversed over the course of 2019.

Non-Utility Margins – The negative variance of $0.4 will close when the full-year forecast is presented.

Operating Expenses - The positive $4.2 million variance is driven by the timing of spend on R&D and other projects, as well as lower depreciation attributable the Authority's assets.

Net Interest Expense – The positive variance of $1.7 million is primarily due to lower interest rates and lower outstanding borrowings, postponement of some debt issuances until later in the year, and favorable mark-to-market gain on the Authority's investment portfolio.

Forecasted Year-End Net Income

Net Income for the year-end is forecasted to be $36.3 million, which is $15.4 million higher than budgeted. The variance is associated with exposure to changes in commodity prices, as well as changes in generation, primarily in hydro flows from the Authority's large hydro facilities.

Generation Margins - The $15.6 million positive generation variance is driven primarily by higher-than-budgeted generation at the Niagara and St. Lawrence projects.

Transmission Margins – It is expected that the variance to be nominal with full reversal of the negative variance in January.

Non-Utility Margins and Operating Expenses are effectively on plan at this stage in the year.

Interest Expense – There is a continuation of a positive variance with the postponement of debt, as well as an interest-rate environment.

In summary, at this time, Net Income is higher than budgeted; this is driven by high hydro flows.

c. Utility Operations

i. **Chief Operations Officer's Report**

Mr. Joseph Kessler, Executive Vice President and Chief Operations Officer, provided highlights of Utility Operations' activities to the Board (Exhibit "5c i-A").

Performance Measures – Year-to-Date January 2019

Generation Market Readiness

Generation Market Readiness factor was at 99.09%. This is above the target of 97.40%.
This target was adjusted based on the B-G outages because of the Unit 1 failure last year. The unit is scheduled to be back in service for the summer capacity period.

Transmission reliability

- Transmission Reliability factor was 95.52%. This is above the target of 94.86%.

Environmental Incidents

- Year-to-date, there were 2 incidents. The Target is not to exceed two incidents.

Safety

DART (Days Away, Restricted or Transferred) is the Authority's safety metrics.

- The year-to-date DART Rate is 0.78. The target is 0.78.

1. **Procurement (Services) Contract – Communication Backbone Program and Moses-Adirondack Smart Path Reliability Project – Optical Ground Wire Cable and Hardware – Contract Awards**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to authorize the award of two equipment contracts in the aggregate amount of $15,232,682 and for the term of five years to AFL Telecommunication LLC ('AFL') of Duncan, South Carolina, and MVA Power Inc. ('MVA') of Montreal, Canada, to furnish and deliver approximately 1,000 miles of Optical Ground Wire ('OPGW') for the Smart Generation & Transmission Communication Backbone Program ('Program') and the Moses-Adirondack Smart Path Reliability ('MASPRP') Project.

BACKGROUND

Section 2879 of the Public Authorities Law and the Authority's Guidelines for Procurement Contracts require the Trustees' approval for procurement contracts involving services to be rendered for a period in excess of one year.

In accordance with the Authority's Expenditure Authorization Procedures, the award of equipment contracts in excess of $6,000,000 requires the Trustees' approval.

The goal of the Program is to establish a robust, secure, and scalable communications network that builds on the Authority's existing infrastructure and is integrated into the long-term asset strategy while leveraging the available infrastructure from independent dark-fiber service providers to reduce the dependency on commercial telecommunications. In support of this goal, approximately 600 miles of OPGW will be purchased and installed on the Authority's transmission lines across each region. The OPGW will be purchased prior to the construction phase for each line.

In support of the MASPRP, which will replace 78 miles of single-circuit wooden transmission structures with new, single-circuit steel pole structures from Moses to Massena, 160 miles of OPGW is required. Similarly, OPGW will be ordered and delivered prior to each phase of the construction. By purchasing the OPGW directly and supplying the material to the construction contractors, the Authority will be able to realize savings and ensure that the material is ordered and delivered to the site in time for construction. Having two companies available for supplying the OPGW affords the Authority flexibility in ordering based on lead times and current pricing at the time of the purchase. Purchase Order Releases will be issued during the contract agreement to procure the OPGW based on individual project requirements.

At their October 2, 2018 meeting, the Trustees approved capital expenditures in the amount of approximately $77 million for the Program, bringing the total authorized amount to date to approximately $100 million. This purchase of the OPGW will be completed within the approved capital expenditure authorization. Also, during that meeting, the Trustees authorized capital expenditures for continuation of support to the New York State Public Service Commission Article VII application, detailed engineering, logistics, construction support services, laydown yards, and procurement of pole and foundation steel for the MASRP. Capital expenditures in the amount of $142.7 million have been approved, to date, and the OPGW will be purchased within this authorization amount.

DISCUSSION

On April 16, 2018, Request for Proposal ('RFP') No. Q18-6429SR was issued soliciting information from qualified companies that have the capability, capacity and experience to manufacture and deliver the OPGW.

Five proposals were received on May 23, 2018 from the following companies via ARIBA e-sourcing:

1) AFL Telecommunications LLC.
2) MVA Power Inc.
3) Power Sales Group, Inc.
4) Turtle & Hughes Inc.
5) Venus Power-Com Supply (AFL distributor)

The submitted information was reviewed and evaluated by a multidisciplinary team, which was comprised of staff from Civil/Structural Engineering, Strategic Supply Management, Project Management, Transmission Operations, Environmental, Health and Safety, Project Development and Licensing as well as external consultants.

Power Sales Group, Inc. did not meet the technical and quality standards as required in the bidding documents; Turtle-Hughes, Inc. did not submit a complete bid; Venus Power is a distributor of AFL and proposed a higher cost if used as a supplier of the OPGW. As such, these vendors were not considered for the award.

After the initial evaluation, clarifications, negotiations and value engineering efforts, the Authority's review committee determined the AFL and MVA proposals were the most competitive and compliant with the requirements of the technical specifications and RFP.

FISCAL INFORMATION

Payment associated with these contracts will be made from the Authority's Capital Fund, which may include proceeds of debt issuances. All costs will be recovered through the Authority's transmission cost recovery mechanism, NYPA Transmission Adjustment Charge ('NTAC').

RECOMMENDATION

The Senior Vice President – Operations Support Services, the Vice President – Project Management, the Vice President – Strategic Supply Management, and the Project Managers recommend that the Trustees approve the award of two equipment contracts to AFL Telecommunications LLC and MVA Power Inc. for an aggregate amount of $15,232,682 and a term of up to five years to furnish and deliver Optical Ground Wire for the Communication Backbone Program and the Moses-Adirondack Smart Path Reliability Project.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

On motion made by Trustee Kress and seconded by Trustee Trainor, the following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That pursuant to the Guidelines for Procurement Contracts adopted by the Authority and the Authority's Expenditure Authorization Procedures, approval is hereby granted to award two equipment contracts for the Smart Generation & Transmission Communication Backbone Program and the Moses-Adirondack Smart Path Reliability Project, in the aggregate amount of $15,232,682, to AFL Telecommunications LLC and MVA Power Inc. for a term of up to five years, as recommended in the foregoing report of the President and Chief Executive Officer;

Contractors	**Contract Amount**
	$15,232,682
AFL Telecommunications LLC **Duncan, South Carolina**	
MVA Power Inc. **Montreal, Canada**	
Q18-6429SR	

AND BE IT FURTHER RESOLVED, That the payments associated with these contracts will be made from the Authority's Capital Fund, which may include proceeds of debt issuances; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

2. **Procurement (Services) Contract – Robert Moses Upper Head Gate Rail Slot and Stop Log Rail Refurbishment Project – Contract Award**

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to approve the award of a nine-year construction contract in the amount of $16,120,154.57, including options, to BVR Construction Inc. ('BVR') of Churchville, NY for the Robert Moses ('RM') Upper Head Gate Rail Slot and Stop Log Rail Refurbishment Project ('Project'). Interim funding in the amount of $1,355,254.00 was previously approved by the Chief Operating Officer in February 2019 to allow for the project's initiation and to maintain the schedule.

BACKGROUND

Section 2879 of the Public Authorities Law and the Authority's Guidelines for Procurement Contracts require the Trustees' approval for procurement contracts involving services to be rendered for a period in excess of one year. Additionally, in accordance with the Authority's Expenditure Authorization Procedures, the award of non-personal services contracts exceeding $6 million requires the Trustees' approval.

In 2005, an underwater diving inspection of the twenty-six RM head gate and stop log slots was performed by Boswell Engineering, which identified deteriorated condition of the rails, associated clamping assemblies, as well as the exposed steel and concrete surfaces within each slot. The rails and associated components have continued to deteriorate due to their age as well as the presence of zebra mussels and debris in the slots. These deteriorated conditions affect the ability to reliably operate head gates and stop logs. The head gate refurbishment project started in 2011 and, to date, fifteen slots are completed. The stop log refurbishment project started in 2018 and, to date, one slot is completed.

The scope-of-work under the Project includes the removal of all zebra mussels and debris within the slots, removal and refurbishment of the rails and associated parts, cleaning and recoating of the exposed steel surfaces and concrete repairs, as necessary, for the remaining eleven head gate slots and twenty-five stop log slots. The schedule for the balance of the Project aligns with the planned 5-year generating unit maintenance outages.

DISCUSSION

A Request for Proposal ('RFP'), Inquiry No. Q18-6547DKT, was issued through the Authority's Ariba system and was advertised in the New York State ('NYS') *Contract Reporter* on November 1, 2018. Five firms were invited into the Ariba Event with thirty-one firms having viewed the RFP on the Strategic Supply Management's ('SSM') website. The following two proposals were received on December 4, 2018.

Bidder	Location	Bid Amount	Recommended Award
Hohl Industrial Services, Inc.	Buffalo, NY	$13,018,480.70	$14,458,480.70
BVR Construction Co. Inc.	Churchville, NY	$15,335,354.57	$16,120,154.57

The two proposals were reviewed thoroughly by the Evaluation Committee. BVR has demonstrated knowledge of the scope-of-work and is capable of completing the project in a timely manner. The Hohl firm previously worked satisfactorily with the Authority; however, its current proposal

did not demonstrate that it could meet the Project schedule and did not address certain additional information to the Authority's satisfaction.

The Evaluation Committee finds BVR technically and commercially qualified and meets the bid requirements on the basis of 'best value,' which optimizes quality, cost and efficiency based on its project team's thorough understanding of the project's scope-of-work, its familiarity of the Authority's program and history of successfully managed projects, and maintaining outage schedules. BVR's approach also presented the option to purchase all permanent materials in the first year to save the Authority from future material escalation costs and possible delays due to long lead-time items.

An additional $784,800 is included in the recommended award amount for unit cost allowances anticipated, as required over the term of the contract, for a total award amount of $16,120,154.57.

FISCAL INFORMATION

Payment associated with this contract will be made from the Authority's Operating Fund.

RECOMMENDATION

The Senior Vice President – Operations Support Services, the Vice President – Project Management, the Vice President – Strategic Supply Management, the Regional Manager, and the Project Manager recommend that the Trustees approve the award of a nine-year construction contract to BVR Construction Inc. of Churchville, NY in the amount of $16,120,154.57 for the Robert Moses Upper Head Gate Rail Slot and Stop Log Rail Refurbishment Project.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

On motion made by Trustee Kress and seconded by Trustee Trainor, the following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That pursuant to the Guidelines for Procurement Contracts adopted by the Authority and the Authority's Expenditure Authorization Procedures, approval is hereby granted to award a nine-year contract to BVR Construction Inc. in the amount of $16,120,154.57 to support the work associated with the Robert Moses Upper Head Gate Rail Slot Refurbishment and Stop Log Slot Rail Refurbishment Project, as recommended in the foregoing report of the President and Chief Executive Officer;

Contractor	**Contract Approval**
BVR Construction Inc. Churchville, NY	**$16,120,154.57**
Q18-6547DKT	

AND BE IT FURTHER RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to

effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

d. Commercial Operations

i. Chief Commercial Officer's Report

Ms. Sarah Salati, Executive Vice President and Chief Commercial Officer, provided highlights of the Commercial Operations' year-to-date activities to the Board (Exhibit "5d i-A").

Wholesale

Customer Usage – year-to-date January 2019 Customer Usage was on target.

Generation – year-to-date January 2019, Generation exceeded its target.

Electric / Fuel Prices

Natural gas normally sets electricity prices. When there is extreme cold, oil sets the electricity prices because gas is reserved for home heating. The year-to-date January 2019 electricity prices and the fuel prices are reflective of that condition with about $10/mwh lower on the electric prices, which is below the target, and $5/mmbtu on the fuel prices, exceeding its target.

Merchant Gross Margin

Although the Authority generated about .3 terawatt hours higher hydropower, hydro generation prices are depressed, resulting in a slightly lower merchant gross margin.

The Authority is undertaking a forecasting project to review all of its forecasting processes with a view to adopting the "best in class" with the available new technology.

Economic Development

Recharge New York Power

The goal of the Authority is to maximize the allocation of the hydroelectric power that it provides to customers that would like to enter or expand their business operations in New York. To date, the Authority has allocated 83 percent of hydropower towards Recharge New York.

Capital Commitments

It is very difficult to set targets on capital commitments and jobs because, in the end, a decision for an organization to either enter or expand its business in New York is multifaceted and not solely based on power production. Nevertheless, with the Alcoa transaction that is before the Board for approval, the Authority was a very strong contributing factor to the company's ability to maintain operations because the predominant cost of the operations is the cost of energy. With that transaction, the Authority was very successful in ensuring that jobs are being maintained in the North Country.

Energy Efficiency

Customer Investments

The Authority has a capital portfolio of projects over $200 million annually. Customer investments are reflective of those capital investments for the Authority's various energy efficiency projects.

Non-Utility Revenues

The nonutility revenues, which, essentially are aligned with the timing of the Authority's capital investments, are slightly above target.

Operating Expenses

The variance in operating expenses is due to timing constraints. This year, the Authority will be looking at costs and, more broadly, clean energy solutions, focusing strongly on containment, in order to meet its budget.

The Authority is well positioned to delivering on its objectives for the year on behalf of the state, supporting and meeting the aggressive and ambitious goals that the Governor continues to set in terms of greenhouse gas reductions and overall energy efficiency.

1. **Economic Development Allocations and Awards:**

a. Recharge New York Power Allocations

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to:

1. award allocations of Recharge New York ('RNY') Power available for 'retention' purposes to the businesses listed in Exhibit '5d i-1a-A' in the amounts indicated on Exhibit '5d i-1a-A';

2. award allocations of RNY Power available for 'expansion' purposes to the businesses listed in Exhibit '5d i-1a-B' in the amounts indicated on Exhibit '5d i-1a-B';

3. award allocations of RNY Power available for eligible small businesses and/or not-for-profit corporations to the entities listed in Exhibit '5d i-1a-C' in the amounts indicated on Exhibit '5d i-1a-C'; and

4. approve the modifications related to the previously-awarded RNY Power allocations identified in Exhibit '5d i-1a-D' for the reasons discussed below and in Exhibit '5d i-1a-D.'

These actions have been recommended by the Economic Development Power Allocation Board ('EDPAB') at its March 4, 2019 meeting.

BACKGROUND

On April 14, 2011, Governor Andrew M. Cuomo signed into law the RNY Power Program as part of Chapter 60 (Part CC) of the Laws of 2011 ('Chapter 60'). The program makes available 910 megawatts ('MW') of 'RNY Power,' 50% of which will be provided by the Authority's hydropower resources and 50% of which will be procured by the Authority from other sources. RNY Power contracts can be for a term of up to 7 years in exchange for job and capital investment commitments.

RNY Power is available to businesses and not-for-profit corporations for job retention and business expansion and attraction purposes. Specifically, Chapter 60 provides that at least 350 MW of RNY Power shall be dedicated to facilities in the service territories served by the New York State Electric and Gas, National Grid and Rochester Gas and Electric utility companies; at least 200 MW of RNY Power shall be dedicated to the purpose of attracting new businesses and encouraging expansion of existing businesses statewide; and up to 100 MW shall be dedicated for eligible not-for-profit corporations and eligible small businesses statewide.

Under the statute, 'eligible applicant' is defined to mean an eligible business, eligible small business, or eligible not-for-profit corporation; however, an eligible applicant shall not include retail businesses as defined by EDPAB, including, without limitation, sports venues, gaming or entertainment-related establishments or places of overnight accommodations. At its meeting on April 24, 2012, EDPAB defined a retail business as a business that is primarily used in making retail sales of goods or services to customers who personally visit such facilities to obtain goods or services, consistent with the rules previously promulgated by EDPAB for implementation of the Authority's Economic Development Power program.

Prior to entering into a contract with an eligible applicant for the sale of RNY Power, and prior to the provision of electric service relating to a RNY Power allocation, the Authority must offer each eligible applicant that has received an award of RNY Power the option to decline to purchase the RNY Market Power component of such award. If the applicant declines to purchase the RNY Market Power

component from the Authority, the Authority has no responsibility for supplying RNY Market Power component of the award.

As part of Governor Andrew M. Cuomo's initiative to foster business activity and streamline economic development, applications for all statewide economic development programs, including the RNY Power Program, have been incorporated into a single on-line Consolidated Funding Application ('CFA') marking a fundamental shift in how State economic development resources are marketed and allocated. Beginning in September 2011, the CFA was available to applicants. The CFA continues to serve as an efficient and effective tool to streamline and expedite the State's efforts to generate sustainable economic growth and employment opportunities. All applications that are considered for an RNY Power allocation are submitted through the CFA process.

Applications for RNY Power are subject to a competitive evaluation process and are evaluated based on the following criteria set forth in the statutes providing for the RNY Power Program (the 'RNY Statutes' also listed in Exhibit '5d i-1a-G'):

'(i) the significance of the cost of electricity to the applicant's overall cost of doing business, and the impact that a recharge New York power allocation will have on the applicant's operating costs;

(ii) the extent to which a recharge New York power allocation will result in new capital investment in the state by the applicant;

(iii) the extent to which a recharge New York power allocation is consistent with any regional economic development council strategies and priorities;

(iv) the type and cost of buildings, equipment and facilities to be constructed, enlarged or installed if the applicant were to receive an allocation;

(v) the applicant's payroll, salaries, benefits and number of jobs at the facility for which a recharge New York power allocation is requested;

(vi) the number of jobs that will be created or retained within the state in relation to the requested recharge New York power allocation, and the extent to which the applicant will agree to commit to creating or retaining such jobs as a condition to receiving a recharge New York power allocation;

(vii) whether the applicant, due to the cost of electricity, is at risk of closing or curtailing facilities or operations in the state, relocating facilities or operations out of the state, or losing a significant number of jobs in the state, in the absence of a recharge New York power allocation;

(viii) the significance of the applicant's facility that would receive the recharge New York power allocation to the economy of the area in which such facility is located;

(ix) the extent to which the applicant has invested in energy efficiency measures, will agree to participate in or perform energy audits of its facilities, will agree to participate in energy efficiency programs of the authority, or will commit to implement or otherwise make tangible investments in energy efficiency measures as a condition to receiving a recharge New York power allocation;

(x) whether the applicant receives a hydroelectric power allocation or benefits supported by the sale of hydroelectric power under another program administered in whole or in part by the authority;

(xi) the extent to which a recharge New York power allocation will result in an advantage for an applicant in relation to the applicant's competitors within the state; and

(xii) in addition to the foregoing criteria, in the case of a not-for-profit corporation, whether the applicant provides critical services or substantial benefits to the local community in which the facility for which the allocation is requested is located.'

Based on the evaluation of these criteria, the applications were scored and ranked.

In arriving at recommendations for EDPAB's consideration, staff, among other things, attempted to maximize the economic benefits of low-cost NYPA hydropower, the critical state asset at the core of the RNY Power Program, while attempting to ensure that each recipient receives a meaningful RNY Power allocation.

Business applicants with relatively high scores were recommended for allocations of retention RNY Power of 50% of the requested amount or average historic demand, whichever was lower. These allocations were capped at 10 MW for any recommended allocation. Not-for-profit corporation applicants that scored relatively high were recommended for allocations of 33% of the requested amount or average historic demand, whichever was lower. These allocations were capped at 5 MW. Applicants currently receiving hydropower allocations under other Authority power programs were recommended for allocations of RNY Power of 25% of the requested amount, subject to the caps as stated above.

RNY Power allocations have been awarded by the Trustees on twenty-one prior occasions spanning from April 2012 through December 2018. Of the 200 MW block of RNY Power made available pursuant to Chapter 60 for business 'expansion' purposes, 82.3 MW remain unallocated. Of the 100 MW of RNY Power that is set aside for not-for-profit corporations and small businesses pursuant to Chapter 60, 3.7 MW remain unallocated. Of the remaining RNY Power made available pursuant to Chapter 60, 67.9 MW remain unallocated. These figures reflect Trustee actions on RNY Power applications taken prior to any actions the Trustees take today.

An allocation recommended by EDPAB qualifies the subject applicant to enter into a contract with the Authority for the purchase of the RNY Power assuming that the Authority concurs with EDPAB and makes an allocation award.

EDPAB, at its March 4, 2019 meeting, recommended that each of the applicants identified in Exhibits '5d i-1a-A', '5d i-1a-B' and '5d i-1a-C' be awarded a RNY Power allocation in the amount indicated in the respective Exhibits.

Consistent with provisions of the RNY Statutes, EDPAB also recommended that the contract for the sale of these allocations contain:

(1) provisions for effective periodic audits of the recipient of an allocation for the purpose of determining contract and program compliance, and for the partial or complete withdrawal of an allocation if the recipient fails to maintain commitments, relating to such things as employment levels, power utilization, capital investments, and/or energy efficiency measures;

(2) requirements for an agreement by the recipient of an allocation undertake at its own expense an energy audit of its facilities at which the allocation is consumed modified by the Authority on a showing of good cause by the recipient, and that the recipient provide the Authority with a copy of any such audit or a report describing the results of such audit;

(3) a requirement for an agreement by the recipient of an allocation to make its facilities available at reasonable times and intervals for energy audits and related assessments that the Authority desires to perform; and

(4) a recommendation shall require that if the actual metered load at the facility where the allocation is utilized is less than the allocation, such allocation will be reduced accordingly.

The sale of RNY Power allocations that are awarded by the Trustees today would be governed by the revised form of RNY Power contract that staff is asking the Trustees to approve today, March 26, 2019, in a separate item, and existing Authority Service Tariff RNY-1. The terms and conditions in the revised RNY Power contract form are consistent with the terms and conditions recommended by EDPAB that are described above.

Finally, EDPAB also recommended that the Trustees approve modifications related to the previously-awarded RNY Power allocations identified in Exhibit '5d i-1a-D' for the reasons stated in Exhibit '5d i-1a-D.'

DISCUSSION

1. Retention-Based RNY Power Allocations – **Action Item**

The Trustees are asked to address applications submitted via the CFA process for RNY Power retention-based allocations. Unless otherwise indicated in Exhibit '5d i-1a-A,' these applications seek a RNY Power allocation for job retention purposes only.

Consistent with the evaluation process as described above, EDPAB recommended, at its March 4, 2019 meeting, that RNY Power retention allocations be awarded to the businesses listed in Exhibit '5d i-1a-A.' Each business has committed to retain jobs in New York State and to make capital investments at their facilities in exchange for the recommended RNY Power allocations. The RNY Power 'retention' allocations identified in Exhibit '5d i-1a-A' are each recommended for a term of 7 years unless otherwise indicated.

Staff recommends that the Trustees accept EDPAB's recommendations and award RNY Power allocations to each of the businesses listed on Exhibit '5d i-1a-A' in the amounts indicated.

2. Expansion-Based RNY Power Allocations – **Action Item**

The Trustees are also asked to address applications submitted for RNY Power expansion-based allocations via the CFA process. Allocations for this purpose would be sourced from the 200 MW block of RNY Power dedicated by statute for 'for-profit' businesses that propose to expand existing businesses or create new business in the State. Unless otherwise indicated in Exhibit '5d i-1a-B,' these applications seek a RNY Power allocation for expansion of an existing business or a new business/facility. EDPAB recommended, at its March 4, 2019 meeting, that RNY Power expansion-based allocations be made to the businesses listed in Exhibit '5d i-1a-B.' Each such allocation would be for a term of 7 years unless otherwise indicated.

As with the evaluation process used for the retention recommendations described above, applications for the expansion-based RNY Power were scored based on the statutory criteria, albeit with a focus on information regarding each applicants' specific project to expand or create their new facility or business (*e.g.*, the expansion project's cost, associated job creation, and new electric load due to the expansion).

The respective amounts of the expansion-related allocations listed in Exhibit '5d i-1a-B' are largely intended to provide approximately 70% of the individual expansion projects' estimated new electric load. Because these projects have estimated new electric load amounts, and to ensure that an applicant's overestimation of the amount needed would not cause that applicant to receive a higher proportion of RNY Power to new load, the allocations in Exhibit '5d i-1a-B' are recommended based on an 'up to' amount basis. Each of these applicants would be required to, among other commitments, add the new electric load as stated in its application, and would be allowed to use up to the amount of their RNY Power allocation in the same proportion of the RNY Power allocation to requested load as stated in Exhibit '5d i-1a-B.'

Staff recommends that the Trustees accept EDPAB's recommendations and award RNY Power allocations to each of the businesses listed on Exhibit '5d i-1a-B' in the amounts indicated.

3. Small Business and/or Not-for-Profit-Based RNY Power Allocations – **Action Item**

The Trustees are also asked to address applications submitted via the CFA process for RNY Power for eligible small businesses and/or not-for-profit corporations. Chapter 60 specifies that no more than 100 MW of RNY Power may be made available for eligible small businesses and eligible not-for-profit corporations. Consistent with the evaluation process described above, EDPAB recommended, at its March 4, 2019 meeting, that RNY Power allocations be awarded to the small businesses and/or not-for-profit applicants listed in Exhibit '5d i-1a-C.' These applicants have committed to retain or create jobs in New York State and make capital investments to the extent indicated in Exhibit '5d i-1a-C' in exchange for the recommended RNY Power allocations as described in Exhibit '5d i-1a-C.' The RNY Power allocations identified in Exhibit '5d i-1a-C' are recommended for a term of 7 years except as otherwise indicated.

Staff recommends that the Trustees accept EDPAB's recommendations and award RNY Power allocations to each of the not-for-profit entities and/or small businesses listed on Exhibit '5d i-1a-C' in the amounts indicated.

4. Modifications to RNY Power Allocations/Commitments – **Action Item**

At its March 4, 2019 meeting, EDPAB recommended that the Trustees make the modifications described on Exhibit '5d i-1a-D' that relate to the 2 recently-awarded RNY Power allocations listed therein.

A RNY Power allocation totaling 96 kilowatts ('kW') was made to Nassau Candy Distributors, Inc., based on, among other things, utility account information listed in the company's application. However, the application misstated the number of the company's utility accounts and, therefore, understated the company's power usage. Based on updated account information, staff recommends that the Board recommend that the company's award be adjusted from 96 kW to 616 kW as listed on Exhibit '5d i-1a-D.'

Seviroli Foods, Inc. was awarded an RNY Power allocation totaling 946 kW. The company subsequently realized that it made an error calculating an employment commitment of 298 jobs. Based on staff's discussions with the applicant, and its reevaluation of Seviroli's application, staff recommends that the employment commitment of Seviroli be adjusted downward to 268 jobs as stated in Exhibit '5d i-1a-D.'

Staff recommends that the Trustees accept EDPAB's recommendations and approve the modifications listed on Exhibit '5d i-1a-D' that relate to the two recently-awarded RNY Power allocations listed therein.

5. EDPAB – Applicants Not Eligible – **Informational Item**

At its meeting on March 4, 2019, EDPAB determined that the applicant listed on Exhibit '5d i-1a-E' is not eligible to receive an RNY Power allocation for the reason specified on Exhibit '5d i-1a-E'. No action by the Trustees is required on this application.

6. EDPAB –Termination of Application/Review Process– **Informational Item**

At its meeting on March 4, 2019, EDPAB terminated the application review process for the applicant listed on Exhibit '5d i-1a-F' for the reason listed on Exhibit '5d i-1a-F.' No action by the Trustees is required on this matter. In the past, some applicants whose applications were terminated in these circumstances have decided to refile and advance a more complete RNY Power application for consideration.

RECOMMENDATION

The Vice President – Economic Development recommends that the Trustees: (1) award the allocations of RNY Power for retention purposes to the businesses listed in Exhibit '5d i-1a-A' as indicated therein; (2) award the allocations of RNY Power for expansion purposes to the businesses listed in Exhibit '5d i-1a-B' as indicated therein; (3) award the allocations of RNY Power for the small business and/or not-for-profit applicants identified in Exhibit '5d i-1a-C' for retention and/or expansion purposes as indicated therein; and (4) approve the modifications identified in Exhibit '5d i-1a-D' related to the previously-approved RNY Power allocations listed therein.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

Mr. Keith Hayes, Vice President of Economic Development, provided highlights of staff's recommendation to the Board.

On motion made by Trustee Balboni and seconded by Trustee Kress, the following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

WHEREAS, the Economic Development Power Allocation Board ("EDPAB") has recommended that the Authority Trustees award Recharge New York ("RNY") Power allocations for retention purposes to the applicants listed in Exhibit "5d i-1a-A" in the amounts indicated; and

WHEREAS, EDPAB has recommended that the Authority Trustees award RNY Power allocations for expansion purposes to the applicants listed in Exhibit "5d i-1a-B" in the amounts indicated; and

WHEREAS, EDPAB has recommended that the Authority Trustees award RNY Power allocations for retention and expansion purposes to the small businesses and/or not-for-profit applicants listed in Exhibit "5d i-1a-C" in the amounts indicated; and

WHEREAS, EDPAB has recommended that the Authority Trustees approve modifications related to two recently-awarded RNY Power allocations described in Exhibit "5d i-1a-D";

NOW THEREFORE BE IT RESOLVED, That, upon considering the foregoing and the information contained in the report of the President and Chief Executive Officer and the accompanying exhibits, the Trustees hereby:

(1) award allocations of RNY Power for retention purposes to the applicants listed on Exhibit "5d i-1a-A" in the amounts indicated;

(2) award allocations of RNY Power for expansion purposes to the applicants listed on Exhibit "5d i-1a-B" in the amounts indicated;

(3) award allocations of RNY Power for expansion and/or retention purposes to the small businesses and/or not-for-profit applicants listed on Exhibit "5d i-1a-C" in the amounts indicated; and

(4) approve the modifications related to previously-awarded RNY power allocations described on Exhibit "5d i-1a-D"; and be it further

RESOLVED, That the Chief Commercial Officer – Energy Solutions, or such official's designee, hereby is, authorized on behalf of the Authority to provide for final terms and conditions that will be applicable to the foregoing allocations and/or projects, including without limitation progress milestones and provisions for the expiration of any allocation in the event that such milestones are not met; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

b. Recharge New York Power – Allocation Extensions

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to authorize the extension of each of the existing 72 allocations of Recharge New York ('RNY') Power ('Allocation' or collectively 'Allocations') awarded to the businesses listed in Exhibit '5d i-1b-A' for a term of 7 years, to commence on the expiration of each such Allocation, or in the Authority's discretion, on a date to be agreed upon by the Authority and the customer for a term not to exceed 7 years (collectively, the 'Extended Term'), subject to the following conditions:

a) The sale of any Allocation extended as proposed herein will be governed by the revised form of RNY Power contract that staff is asking the Trustees to approve today, March 26, 2019, in a separate item, and existing Authority Service Tariff RNY-1.

b) A customer whose Allocation would be extended would have to agree to provide supplemental commitments for, among other things, jobs and capital investments, as it has in its current RNY Power agreement(s) with the Authority (collectively, 'Current RNY Power Agreement') for the length of any Extended Term, through the incorporation of such supplemental commitments in the proposed final contract that is executed by the parties. With respect to capital investments, the vast majority of RNY Power customers (i.e., those who do not have project/expansion capital investment commitments) would be expected to meet a minimum capital investment commitment which may be satisfied through capital expenditures made over a five-year period.

c) The customer is in compliance with its contractual obligations to the Authority under its Current RNY Power Agreement.

The Economic Development Power Allocation Board, at its meeting held on March 4, 2019, recommended to the Trustees that each of the Allocations listed on Exhibit '5d i-1b-A' be extended for 7 years as further described herein.

The Trustees are further requested to approve modifications related to recently extended RNY Power allocations for the 16 customers listed in Exhibit '5d i-1b-B.' The Allocations for these customers were conditionally extended on the basis of the commitments each customer made in its existing power sale contract with the Authority. Since the allocations were conditionally extended, the Authority has received additional information relating to the circumstances of each customer and has conferred with the customers concerning such issues as power needs, employment and capital investment commitments, and/or other relevant matters. Based on this information, staff is requesting that the Trustees make the changes to these allocations and/or supplemental commitments for these customer that are identified in Exhibit '5d i-1b-B' for the reasons detailed in Exhibit '5d i-1b-B.' The Economic Development Power Allocation Board, at its meeting held on March 4, 2019, recommended that the Trustees approve each of the modifications listed on Exhibit '5d i-1b-B' and as further described therein.

BACKGROUND

On April 14, 2011, Governor Andrew M. Cuomo signed into law the RNY Power Program as part of Chapter 60 (Part CC) of the Laws of 2011. The RNY Power Program is codified primarily in Economic Development Law ('EDL') § 188-a and Public Authorities Law ('PAL') § 1005(13-a) (the 'Statutes'). The program makes available 910 megawatts ('MW') of 'RNY Power,' 50% of which will be provided by the Authority's resources and 50% of which will be procured by the Authority from other sources. RNY Power contracts can be for a term of up to 7 years in exchange for job and capital investment commitments. RNY Power is available to businesses and not-for-profit corporations for job retention and business expansion and attraction.

'Eligible applicant' is defined by statute to mean an eligible business, eligible small business, or eligible not-for-profit corporation, however, an eligible applicant shall not include retail businesses as defined by EDPAB, including, without limitation, sports venues, gaming or entertainment-related establishments or places of overnight accommodations.

RNY Power allocation awards are comprised of 50% hydropower and 50% Authority-procured market power. Prior to entering into a contract with an eligible applicant for the sale of RNY power, and prior to the provision of electric service relating to the RNY power allocation, the Authority shall offer each eligible applicant the option to decline to purchase the RNY market power component of such allocation. If an eligible applicant declines to purchase the RNY market power component, the Authority has no responsibility for supplying such market power to the eligible applicant.

Under applicable law, applications for RNY Power are first considered by EDPAB. EDPAB is authorized to recommend applicants to the Authority's Trustees that it believes should receive an award of RNY Power based on applicable statutory criteria and other pertinent considerations. The statutory criteria are listed in Exhibit '5d i-1b-C' to this report. An allocation recommended by EDPAB qualifies the subject applicant to enter into a contract with the Authority for the purchase of the RNY Power if the Authority makes an allocation award.

At their meeting held on October 2, 2018, the Trustees authorized extensions for 180 RNY Power Allocations. An additional 62 RNY Power Allocations were approved for extension by the Trustees on December 11, 2018.

EDPAB, at its meeting held on March 4, 2019, recommended that the Trustees approve extensions for the 72 RNY Power allocation extensions that are now before the Trustees.

In addition, at its March 4, 2019 meeting, EDPAB also recommended that the Trustees approve modifications related to 16 recently extended RNY Power allocations that are described in Exhibit '5d i-1b-B' for the reasons discussed below and in Exhibit '5d i-1b-B.'

DISCUSSION

1. Extension of Existing Allocations

For the current round of recommendations, Authority staff has reviewed applications from 72 RNY Power customers who have filed applications requesting that their existing RNY Power allocations be extended. Staff has analyzed the applications of the RNY Power customers listed on Exhibit '5d i-1b-A' and a copy of each application has been made available to the Board. Staff's review has included on a customer-specific basis consideration of such issues as the amount of each Allocation that would be extended, the supplemental commitments that these customers have made under their Current RNY Power Agreement and are prepared to make as consideration for an extension, and the customer's compliance status under its Current RNY Power Agreement, including its compliance with supplemental commitments for jobs and capital investments.

The businesses listed on Exhibit '5d i-1b-A' which are located throughout the State bring valuable benefits to the State. In total, the Allocations listed in Exhibit '5d i-1b-A' are supporting the retention of some 44,269 jobs and over $3.3 billion in capital investments throughout New York State, and the Authority will require customers to commit to the same or substantially similar supplemental commitments for jobs and capital investments that are summarized in Exhibit '5d i-1b-A' for the Extended Term.

At its meeting held on March 4, 2019, EDPAB recommended to the Trustees that each of the Allocations listed on Exhibit '5d i-1b-A' be extended for 7 years as described above. As part of its recommendation that these Allocations be extended, EDPAB, consistent with provisions of applicable Statutes, also recommended that the contract for the sale of the Allocations contain:

(1) provisions for effective periodic audits of the recipient of an allocation for the purpose of determining contract and program compliance, and for the partial or complete withdrawal of an allocation if the recipient fails to maintain commitments, relating to such things as employment levels, power utilization, capital investments, and/or energy efficiency measures;

(2) requirements for an agreement by the recipient of an allocation undertake at its own expense an energy audit of its facilities at which the allocation is consumed modified by the Authority on a showing of good cause by the recipient, and that the recipient provide the Authority with a copy of any such audit or a report describing the results of such audit;

(3) a requirement for an agreement by the recipient of an allocation to make its facilities available at reasonable times and intervals for energy audits and related assessments that the Authority desires to perform; and

(4) a recommendation shall require that if the actual metered load at the facility where the allocation is utilized is less than the allocation, such allocation will be reduced accordingly.

Staff believes that an extension of each Allocation listed on Exhibit '5d i-1b-A' is appropriate and is consistent with the statutory criteria that are used to evaluate applications for an award of RNY Power which are listed in Exhibit '5d i-1b-C.'

In addition, the terms and conditions in the revised RNY Power contract form that the Trustees are being asked to approve today are consistent with the terms and conditions recommended by EDPAB.

Based on the foregoing discussion, staff recommends that the Trustees extend the Allocations listed on Exhibit '5d i-1b-A' subject to the following conditions:

(a) The sale of any Allocation extended as proposed herein will be governed by the revised RNY Power contract form that staff is asking the Trustees to approve today, March 26, 2019, in a separate item, and Authority Service Tariff RNY-1.

(b) In order to receive an extension of its Allocation, the customer must agree, for the Extended Term, to provide the supplemental commitments for jobs and capital investments that are the same or substantially similar to those that are summarized generally in Exhibit '5d i-1b-A,' through the incorporation of such supplemental commitments in the final contract that is executed by the parties. With respect to capital investments, RNY Power customers who do not have current project/expansion capital investment commitments would be expected to meet a minimum capital investment commitment which may be satisfied through capital expenditures made over a five year period.

(c) The customer is in compliance with its contractual obligations to the Authority under its Current RNY Power Agreement.

2. Modifications Relating to Previously-Extended Allocations

At its meeting held on March 4, 2019, EDPAB recommended that the Trustees approve modifications relating to the 16 previously-extended RNY Power allocations listed on Exhibit '5d i-1b-B' for the reasons described in Exhibit '5d i-1b-B.'

Allocations for these customers were recently extended on the basis of the amount of each customer's existing allocation and the supplemental commitments for jobs and capital investments each customer made in its existing power sale contract with the Authority. Since this time, the Authority has received additional information on the circumstances of each customer and has conferred with the customers concerning such matters as the customer's power needs, ability to sustain employment and

capital investment commitments, and/or other relevant matters. In most cases, the customer has indicated that it desires to reduce its employment obligation which necessitates an adjustment to the amount of the customer's allocation. In other cases, modifications to the amount of a customer's extended allocation and/or supplemental commitments are appropriate in order to address administrative errors or other circumstances relating to a customer's current situation. The specific modifications proposed and the reasons for each modification are detailed in Exhibit '5d i-1b-B.'

Staff believes that the modifications listed on Exhibit '5d i-1b-B' are appropriate and consistent with the statutory criteria that are used to evaluate applications for an award of RNY Power which are listed in Exhibit '5d i-1b-C.' For these reasons, staff recommends that the Trustees approve the modifications listed on Exhibit '5d i-1b-B.'

RECOMMENDATION

The Vice President – Economic Development recommends that the Trustees accept the recommendations of the Economic Development Power Allocation Board ('EDPAB'), and authorize the extension of each of the existing 72 Allocations of RNY Power for the customers listed on Exhibit '5d i-1b-A' for a term of 7 years to commence on the expiration of the Allocation, or commencing on a date to be agreed upon by the parties for a term not to exceed 7 years, subject to the following conditions:

(a) The sale of any Allocation extended as proposed herein will be governed by the revised Recharge New York ('RNY') Power contract form that staff is asking the Trustees to approve today, March 26, 2019, in a separate item, and Authority Service Tariff RNY-1.

(b) In order to receive an extension of its Allocation, the customer must agree, for the Extended Term, to provide supplemental commitments for jobs and capital investment that are the same or substantially similar to those that are summarized in Exhibit '5d i-1b-A,' through the incorporation of such supplemental commitments in the final contract that is executed by the parties. With respect to capital investments, RNY Power customers who do not have an ongoing project/expansion capital investment commitments would be required to meet a minimum capital investment commitment which may be satisfied through capital expenditures made over a five-year period.

(c) The customer is in compliance with its contractual obligations to the Authority under its Current RNY Power Agreement.

In addition, the Vice President – Economic Development recommends that the Trustees accept the recommendations of EDPAB, and approve the modifications/adjustments to the previously extended allocations and/or supplemental commitments described in Exhibit '5d i-1b-B' for the reasons discussed in Exhibit '5d i-1b-B.'

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

Mr. Keith Hayes, Vice President of Economic Development, provided highlights of staff's recommendation to the Board.

On motion made by Trustee Kress and seconded by Vice Chair Nicandri, the following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That the Trustees hereby accept the recommendations of the Economic Development Power Allocation Board and approve the extension of each of the existing 72 Recharge New York ("RNY") Power allocations ("Allocation" or collectively "Allocations") previously

awarded to the customers listed in Exhibit "5d i-1b-A" for a term of 7 years, to commence on (1) the expiration of the term of the Allocation, or (2) in the Authority's discretion, commencing on a date to be agreed upon by the Authority and the customer for a term not to exceed 7 years (collectively, the "Extended Term"), subject to the following conditions:

(a) the sale of the Allocations as extended hereunder shall be made pursuant to the revised contract form approved by the Board on this date, March 26, 2019, and Authority Service Tariff RNY-1;

(b) in order to receive an extension of its Allocation, the customer agrees to provide the supplemental commitments for jobs, capital investment and power utilization that are the same or determined by the Authority to be substantially similar to those contained in Exhibit "5d i-1b-A" for the Extended Term, through the incorporation of such supplemental commitments in the final contract that is executed by the parties, and RNY Power customers who do not have an ongoing project/expansion capital investment commitment shall meet a minimum capital investment commitment which may be satisfied through capital expenditures made over a five-year period; and

(c) that customer is in compliance with its contractual obligations to the Authority under its current RNY Power agreement(s) with the Authority; and be it further

RESOLVED, That the Trustees hereby accept the recommendations of the Economic Development Power Allocation Board and approve the modifications/ adjustments to the previously extended allocations and/or supplemental commitments described in Exhibit "5d i-1b-B" for the reasons indicated in Exhibit "5d i-1b-B"; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

c. Replacement Power Allocation

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to approve an allocation of 200 kilowatts ('kW') of Replacement Power ('RP') to Time Release Sciences, Inc. ('TRS') which is planning an expansion at its facility in the City of Buffalo, Erie County. The project is described in further detail below and in Exhibit '5d i-1c-A.' The term of the allocation would be seven years. The allocation would support capital investment of at least $13.5 million and the creation of at least 12 jobs in Western New York ('WNY').

BACKGROUND

Under Public Authorities Law ('PAL') §1005(13), the New York Power Authority ('NYPA' or 'Authority') may contract to allocate 250 megawatts ('MW') of firm hydroelectric power as Expansion Power ('EP') and up to 445 MW of RP to businesses in the State located within 30 miles of the Niagara Power Project, provided that the amount of power allocated to businesses in Chautauqua County on January 1, 1987 shall continue to be allocated in such county.

Each application for an allocation of EP and RP must be evaluated under criteria that include, but need not be limited to, those set forth in PAL §1005(13)(a), which details general eligibility requirements. Among the factors to be considered when evaluating a request for an allocation of hydropower are the number of jobs created as a result of the allocation; the business' long-term commitment to the region as evidenced by the current and/or planned capital investment in the business' facilities in the region; the ratio of the number of jobs to be created to the amount of power requested; the types of jobs to be created, as measured by wage and benefit levels, security and stability of employment, and the type and cost of buildings, equipment and facilities to be constructed, enlarged or installed.

The Authority works closely with business associations, local distribution companies and economic development entities to gauge support for the projects that would be supported with allocations of Authority hydropower. Discussions routinely occur with National Grid, Empire State Development, Invest Buffalo Niagara, the Niagara County Center for Economic Development, and the Erie County Industrial Development Agency to coordinate other economic development incentives that may help bring economic development to New York State. Staff confers with these entities to help maximize the value of hydropower to improve the economy of WNY and the State of New York. Each organization has expressed support for today's recommended RP allocation.

At this time, 67,510 kW of unallocated EP and 99,091 kW of unallocated RP is available to be awarded to businesses under the criteria set forth in PAL §1005(13)(a).

DISCUSSION

The applicant, TRS, is a packaging company that started operations in May 2003 in the City of Buffalo. The company has two customers – Proctor & Gamble and International Marketing Services East Co. Ltd.

TRS's facility has extensive, highly automated cutting, slitting, compression, die cutting, lamination and packaging capabilities. The facility currently produces the five product lines of the 'Magic Eraser.'

TRS submitted an application requesting 350 kW of hydropower in connection with an expansion project. TRS is proposing a two-fold expansion at its facility. The initial expansion would be aimed at automating three existing packaging lines, and adding compression and slitting equipment and a new automated second line to handle a sales increase in the Thin Sheets product line. The second portion of

the project would be a build out of a 96,000-square-foot addition for additional manufacturing needs, including the addition of injection equipment for six production lines to introduce new chemistries, new soaps and fragrances, and storage needs. The facility will double in size once the expansion is complete in 2021.

TRS's total investment for the project will be at least $13,525,000 and includes: $1,500,000 for purchase of land adjacent to the existing plant; $1,000,000 for demolition of buildings on the purchased land; $4,000,000 for construction of the new building; $3,000,000 for packaging automation of three lines; $1,000,000 for a Beckwood compression press; $525,000 for a F & K automated saw; $1,300,000 for a thin sheets automated packaging line; and $1,200,000 for automated injection equipment.

TRS would create at least 12 new jobs (average compensation/benefits estimated at $52,407) above its current job level of 96 positions.

The job creation ratio for the proposed allocation of 200 kW is 60 new jobs per MW. This ratio is above the historic average of 29.9 new jobs per MW based on allocations made during the past nine years. The total project investment of at least $13.5 million would result in a capital investment ratio of $67.6 million per MW. This ratio is above the nine-year historic average of $23.1 million per MW.

TRS currently purchases three allocations RP allocations from NYPA – 200 kW, 250 kW and 250 kW. It is in compliance with all its existing contractual commitments.

Staff recommends that an allocation of 200 kW of RP for a term of seven years be awarded to TRS in support of its proposed expansion.

TRS has already been issued an existing hydropower contract that has been subject to the public review and approval process of Public Authorities Law §1009. In accordance with the terms of that contract, any additional allocation that TRS receives and associated supplemental commitments may be added to the contract. The recommended allocation would be subject to the terms of that contract to the Authority's Service Tariff No. WNY-2. Delivery of the allocation would be provided by the customer's local electric distribution utility.

RECOMMENDATION

The Vice President – Economic Development, recommends that the Trustees approve an allocation of 200 kW of Replacement Power to Time Release Sciences, Inc. as described herein and in Exhibit '5d i-1c-A' for a term of seven years.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

Mr. Keith Hayes, Vice President of Economic Development, provided highlights of staff's recommendation to the Board.

On motion made by Trustee Kress and seconded by Trustee Balboni, the following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That an allocation of 200 kilowatts of Replacement Power to Time Release Sciences, Inc. for a term of seven (7) years as detailed in the foregoing report of the President and Chief Executive Officer and Exhibit "5d i-1c-A" be and hereby is approved, subject to rates previously approved by the Trustees; and be it further

RESOLVED, That the Chairman, the Vice Chair, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

d. Municipal Electric and Rural Electric Cooperative Systems Hydropower Contract and Notice of Public Hearing

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to:

1) approve an extension to the term of service of existing allocations of hydropower ('Allocations') to the 51 municipal electric utility and rural electric cooperative systems ('Customers') to September 1, 2040;

2) authorize a public hearing pursuant to Public Authorities Law ('PAL') §1009 on a proposed new contract form ('Contract') to be used to sell the Allocations to the Customers for the extended term;

Exhibit '5d i-1d-A' provides the list of Allocations held by each of the 51 Customers and the form of the Contract and associated service tariffs No. 38A and 39A (the 'Tariffs') are attached as Exhibit '5d i-1d-B.'

BACKGROUND

The Authority currently sells 764.8 MW of firm hydropower from the Niagara Power Project ('Project') as 'preference power' to the Customers pursuant to the Niagara Redevelopment Act, 16 U.S.C. §836(b)(1) ('NRA') and Public Authorities Law § 1005(5). The Customers are the only entities in New York that qualify as public bodies and non-profit cooperatives entitled to preference power and priority in the allocation of Project power under the NRA.

Preference power is sold at the Authority's cost-based rates to the Customers who then resell the hydropower to the electricity consumers located within their service territories under the Customers' retail service tariffs. The Customer's resale of Niagara hydropower to its consumers is regulated pursuant to either (a) the Authority's applicable rules and regulations (contained in Chapter X of Title 21 of the Official Compilation of Codes, Rules and Regulations of the State of New York) in the case of the eleven full requirement Customers, or (b) to the Public Service Commission ('PSC') substantially similar applicable rules and regulations in the case of the 40 partial requirement Customers, without profit but allowing for a reasonable return on the Customers' investments in their electric distribution systems. In addition, the Authority sells 3.6 MW of firm peaking hydropower from the Project to the Customers at preference power rates.

The Authority's current power sales agreements ('Current Agreements') with the Customers, originated in 1986, were amended in 1991 and, again, in 2003 to, among other things, extend the term to September 30, 2013 and September 1, 2025, respectively.

DISCUSSION

The Customers, represented by two organizations, the Municipal Electric Utility Association of New York State ('MEUA') and the New York association of Public Power ('NYAPP') (collectively, the 'Customer Associations'), requested that the Authority consider extension of the hydropower allocations purchased under the Current Agreements prior to their expiration in 2025 because of the importance of the Project's preference power to the economic vitality of their communities. The Customer Associations

and Authority staff began meeting periodically during the last three years to discuss possible terms and conditions for the extension of the Allocations beyond September 2025.

Because most of the Customers' wholesale electricity supply is comprised of Project hydropower, the Customer Associations expressed how essential the assurance of continued receipt of this power under a renewed long-term contract is for the Customers' electric system power supply plans. The Customer Associations also made clear the desire to continue working closely with the Authority to implement expanded energy efficiency, energy conservation, and economic development programs for the Customers' own use and for that of their retail consumers. These efforts help optimize the use of Authority-generated low-cost hydroelectric power. Also, of particular interest to both the Authority and Customers was the 2015 State Energy Plan ('SEP') and its resultant Clean Energy Standard ('CES') adopted by the Public Service Commission ('PSC') on August 1, 2016 including the Renewable Energy Standard ('RES'), all related to the implementation of the State's energy and environmental goals.

The discussions have culminated in the development of a proposal by staff on behalf of the Authority that would provide a long-term extension of the Allocations as identified in Exhibit '5d i-1d-A.' The extension proposal may be summarized as follows:

- The Allocations listed on Exhibit '5d i-1d-A' would be extended through September 1, 2040.

- The Customers agreed to take actions to support the goals underlying the CES, RES and SEP. As more specifically described in the SEP and CES, such goals, which are targeted to be achieved statewide by 2030, include: a) reduction of greenhouse gas emissions from 1990 levels of 40%; b) achievement of a goal of 50% of the statewide generation of electricity coming from carbon-free renewable energy sources, such as solar, wind, hydropower and biomass; and c) a 23% decrease in energy consumption in buildings statewide from the baseline of 2012 levels.

- For the purpose of supporting the CES, RES and SEP goals, the Customers, working with their respective Customer Association(s), agreed to work with NYPA to among other things, revise existing Customer retail tariffs in order to encourage efficient off-peak usage and to implement distribution-level technologies that encourage the adoption of cost-effective distributed energy resources ('DER') and other energy services, consistent with the ultimate objectives of the CES and the goals of the SEP. The Customers and NYPA agreed to work together and with the Customer Associations to implement these type of activities in a cost-effective and efficient manner, consistent with the unique characteristics of the individual Customers.

- The Contract incorporates a more developed approach by the Authority to administering its Project sales to the Customers in a manner that is consistent with the State Energy Plan and Clean Energy Standard.

- The Customers agreed to continue expanding energy efficiency and energy conservation activities to benefit their respective service territories. Such activities include high efficiency residential, commercial and industrial lighting, motors, solar programs, smart meters, demand response and various energy saving programs, projects and policies ('Energy Projects'). The Customers agreed to a mandatory 1 mil (one-thousandth of a dollar/kWh) added charge to their retail rates, at a minimum, to fund such Energy Projects including implementing energy efficiency, renewable energy or other related technologies.

- The Contract creates a joint Customer/NYPA 'Implementation Task Force' ('Task Force') that meets regularly to track Energy Projects funded through this mechanism, and provides for NYPA's assistance in project development and creation for all Customers. The Task Force will develop a reporting process that will track and highlight annual achievements to be submitted to NYPA annually, as well as to monitor, identify, and assist individual Customers that may be struggling to comply with Energy Project implementation and the use of funds. The Task Force

will consult regarding a non-compliant Customer and the Authority has the right to direct such Customer to utilize funds for appropriate Energy Projects.

- The Contract also creates a 'Technology & Innovation Task Force' comprised of Authority and Customer Associations' staff to investigate and pursue, as appropriate, technologies and innovations at the locus of New York State energy policy, Customer needs, and Authority leadership.

- The full requirement Customers ('FRCs'), currently comprised of 7 municipal electric systems and 4 rural electric cooperatives that receive all of their power and energy needs from NYPA, agreed to pay the Zero Emissions Credit Charge and Renewable Energy Credit Charge provided for in the CES. In this manner, the Authority recovers these costs incurred through the New York Independent System Operator ('NYISO') as the Load Serving Entity ('LSE') for the FRCs. The 40 partial requirement Customers ('PRCs') who receive only the Allocation from the Authority, with the remaining requirements provided by a third-party supplier, will also pay these CES-related charges through such third-party supplier that acts as the PRCs' LSE.

- The Allocations will continue to be sold pursuant to existing Tariffs (No. 38A in the case of FRCs and No. 39A in the case of the PRCs). While there are no changes to preference power demand and energy rates (i.e. cost-based rates based on the Authority's hydropower cost of service) contained in the Tariffs, certain non-rate related provisions of the Tariffs have been modified to ensure their language comports with the proposed new Contract language. The Customers have reviewed and accepted the modified Tariffs, which would become effective on the effective date of the new Contract.

- The Contract clarifies the Authority's obligations to supply 'substitute energy' in the event of 'adverse water conditions' that impacts Project operations and continues to maintain the Authority's right to curtail hydropower sales in such an event.

- The Contract contains updated provisions to address a number of matters, including customer metering arrangements, scheduling and settlement procedures, and early outreach concerning future allocation extensions.

- Customers would be able to utilize, at their option and at no cost, a base level of service of the Authority's New York Energy Manager ('NYEM'). The Customers could participate at higher levels of NYEM service provided that any service fees and associated equipment costs would be paid for by the individual Customer.

RECOMMENDATION

The Vice President – Economic Development recommends that the Trustees (1) approve an extension to the term of service of the existing Allocations of hydropower to the 51 municipal electric utility and rural electric cooperative systems to September 1, 2040; and (2) authorize a public hearing pursuant to PAL §1009 on the Contract for such Allocations.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

Mr. Keith Hayes, Vice President of Economic Development, provided highlights of staff's recommendation to the Board.

On motion made by Vice Chair Nicandri and seconded by Trustee Kress, the following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That the extension of the term of service of allocations of Niagara Power Project hydropower to municipal electric utility and rural electric cooperative systems ("Customers") to September 1, 2040 as detailed in the foregoing report of the President and Chief Executive Officer and Exhibit "5d i-1d-A" be and hereby is approved; and be it further

RESOLVED, That the Trustees hereby authorize a public hearing pursuant to Public Authorities Law ("PAL") §1009 on the terms of the proposed form of the hydropower sales contract ("Contract") finally negotiated with the Customers, the current form of which is attached as Exhibit "5d i-1d-B," subject to rates previously approved by the Trustees; and be it further

RESOLVED, That the Corporate Secretary be, and hereby is, authorized to transmit a copy of the proposed Contract, to the Governor, the Speaker of the Assembly, the Minority Leader of the Assembly, the Chairman of the Assembly Ways and Means Committee, the Temporary President of the Senate, the Minority Leader of the Senate and the Chairman of the Senate Finance Committee pursuant to PAL §1009; and be it further

RESOLVED, That in connection with the proposed Contract, the Corporate Secretary be, and hereby is, authorized to arrange for the publication of a notice of public hearing in six newspapers throughout the State, in accordance with the provisions of PAL §1009; and be it further

RESOLVED, That the Chairman, the Vice Chair, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

e. Award of Fund Benefits from the Western New York Economic Development Fund Recommended by the Northern New York Power Proceeds Allocation Board

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to: (1) accept the recommendations of the Western New York Power Proceeds Allocation Board (the 'Allocation Board' or 'WNYPPAB') and make an award of Fund Benefits from the Western New York Economic Development Fund to the eligible applicant listed in Exhibit '5d i-1e-A' in the amount indicated on Exhibit '5d i-1e-A' and as discussed in more detail below and in Exhibit '5d i-1e-A-1'; and (2) authorize the other actions described herein with respect to such applicant and recommended award.

BACKGROUND

1. Western New York Power Proceeds Allocation Act

On March 30, 2012, Governor Cuomo signed into law the Western New York Power Proceeds Allocation Act (the 'Act'). The Act provides for the creation, by the Authority, of the Western New York Economic Development Fund. The Fund consists of the aggregate excess of revenues received by the Authority from the sale of Expansion Power ('EP') and Replacement Power ('RP') produced at the Niagara Power Project that was sold in the wholesale energy market over what revenues would have been received had such energy been sold on a firm basis to an eligible EP or RP customer under the applicable tariff or contract.

Under the Act, an 'eligible applicant' is a private business, including a not-for-profit corporation. 'Eligible projects' is defined to mean 'economic development projects by eligible applicants that are physically located within the State of New York within a thirty-mile radius of the Niagara power project located in Lewiston, New York that will support the growth of business in the state and thereby lead to the creation or maintenance of jobs and tax revenues for the state and local governments.' Eligible projects include, for example, capital investments in buildings, equipment, and associated infrastructure owned by an eligible applicant for fund benefits; transportation projects under state or federally approved plans; the acquisition of land needed for infrastructure; research and development where the results of such research and development will directly benefit New York state; support for tourism and marketing and advertising efforts for western New York state tourism and business; and energy-related projects.

Eligible projects do not include public interest advertising or advocacy; lobbying; the support or opposition of any candidate for public office; the support or opposition to any public issue; legal fees related to litigation of any kind; expenses related to administrative proceedings before state or local agencies; or retail businesses as defined by the board, including without limitation, sports venues, gaming and gambling or entertainment-related establishments, residential properties, or places of overnight accommodation.

Fund Benefits have been provided to successful eligible applicants in the form of grants. Generally, Fund Benefits are disbursed as reimbursement for expenses incurred by an Eligible Applicant for an Eligible Project. Occasionally, Fund Benefits are disbursed in advance for proposed eligible expenditures to be incurred by the Eligible Applicant for an Eligible Project when NYPA determines this approach is appropriate for a project, NYPA has authorized the approach in advance, and proposed expenses can be appropriately documented.

At least 15 percent of Fund Benefits must be dedicated to eligible projects which are 'energy-related projects, programs and services,' which is 'energy efficiency projects and services, clean energy technology projects and services, and high performance and sustainable building programs and services,

and the construction, installation and/or operation of facilities or equipment done in connection with any such projects, programs or services.'

Allocations of Fund Benefits may only be made on the basis of moneys that have been deposited in the Fund. No award may encumber future funds that have been received but not deposited in the Fund.

2. Western New York Power Proceeds Allocation Board

Under the Act, the Allocation Board is charged with soliciting applications for Fund Benefits, reviewing applications, making eligibility determinations, and evaluating the merits of applications for Fund Benefits. The Allocation Board uses the criteria applicable to EP, RP and PP, and for revitalization of industry as provided in Public Authorities Law §1005. Additionally, the Allocation Board is authorized to consider the extent to which an award of Fund Benefits is consistent with the strategies and priorities of the Regional Economic Development Council having responsibility for the region in which an eligible project is proposed. A copy of these criteria (collectively, 'Program Criteria'), adapted from the Allocation Board's 'Procedures for the Review of Applications for Fund Benefits,' is attached as Exhibit '5d i-1e-B.'

The Allocation Board met on March 4, 2013 and, in accordance with the Act, adopted by-laws, operating procedures, guidelines related to the application, and a form of application. At that time, the Allocation Board defined 'retail business' to mean a business that is primarily used in making retail sales of goods or services to customers who personally visit such facilities to obtain goods or services.

Under the Act, a recommendation for Fund Benefits by the Allocation Board is a prerequisite to an award of Fund Benefits by the Authority, and the Act authorizes the Authority to award Fund Benefits to an applicant upon a recommendation of the Allocation Board. Upon a showing of good cause, the Authority has discretion as to whether to adopt the Allocation Board's recommendation, or to award benefits in a different amount or on different terms and conditions than proposed by the Allocation Board. In addition, the Authority is authorized to include within the contract covering an award ('Award Contract') such other terms and conditions the Authority deems appropriate.

3. Application Process

In an effort to provide for the efficient review of applications and disbursement of Fund Benefits, the Allocation Board established a schedule of dates through the end of 2019 on which the Allocation Board would meet to consider applications. At this time, applications are being accepted on a rolling basis. In addition, the application process was promoted through a media release and with assistance from state and local entities, including the Western New York and Finger Lakes Regional Economic Development Councils, the Empire State Development Corporation and other local and regional economic development organizations within the State. A webpage was created that is hosted on WWW.NYPA.GOV/WNYPPAB with application instructions, a link to the approved application form and other program details including a contact phone number and email address staffed by NYPA.

DISCUSSION

At its February 4, 2019 meeting, the Allocation Board considered an application from Hauptman-Woodward Medical Research Institute, Inc. ('HWI') seeking $1,000,000 in Fund Benefits to establish a Center for Therapeutic Interactions that will offer Cryo-electron microscopy based research ('Cryo-EM') and a unique related suite of complimentary services at its Buffalo, New York location.

As detailed in Exhibit '5d i-1e-A-1,' HWI's application seeks Fund Benefits to support the installation of cutting edge drug discovery research instruments, building modifications and infrastructure required to support the new machinery and equipment, and miscellaneous project items. HWI would spend approximately $4,997,000 on its project. Included as part of the project is the installation of an onsite, lithium ion battery that will be integrated into the building's automation system and used to shave

peak electric demand and reduce energy costs. NYPA would be able to access the component of the Fund reserved by statute for energy-related projects, programs and services for that portion of the award aimed at the cost of the battery.

Allocation Board's staff analyzed the application and made a recommendation to the Allocation Board based on eligibility requirements and Program Criteria. A copy of the recommendation memorandum provided to the Allocation Board for the HWI project is attached as Exhibit '5d i-1e-A-1.' The application itself has also been made available to the Trustees for review.

The Allocation Board has recommended that this applicant receive a Fund Benefit award in the amount indicated on Exhibit '5d i-1e-A.' Given the nascent stage of the proposed project, it was not possible to recommend the terms and conditions that would be applicable to the award and memorialized in an Award Contract between the Authority and successful applicant.

If this applicant receives a Fund Benefit award, it is anticipated that Authority staff would negotiate final terms and conditions with the applicant after receipt of more detailed information concerning the project and proposed schedules. An Award Contract may include scheduled payments keyed to commitment milestones, such as employment creation and retention. In addition, staff anticipates that an Award Contract will contain provisions for periodic audits of the successful applicant for the purpose of determining contract and program compliance and, where appropriate, terms providing for the partial or complete recapture of Fund Benefits disbursements if an applicant fails to maintain agreed-upon commitments, relating to, among other things, employment levels and/or project element due dates.

RECOMMENDATION

The Vice President – Economic Development recommends that:

(1) the Trustees accept the recommendations of the Allocation Board and make an award of Fund Benefits to the applicant in the amount identified in Exhibit '5d i-1e-A,' conditioned upon an agreement to be negotiated with the applicant on the final terms and conditions that would be applicable to the award to be contained in an Award Contract approved by the President and Chief Executive Officer, or his designee, and approved by the Executive Vice President and General Counsel, or his designee, as to form;

(2) the Chief Commercial Officer – Energy Solutions, or such official's designee, be authorized to negotiate with the applicant concerning such final terms and conditions that will be applicable to the awards; and

(3) the Chief Commercial Officer – Energy Solutions, or such official's designee, be authorized to execute on behalf of the Authority an Award Contract for the award listed on Exhibit '5d i-1e-A' subject to the foregoing conditions.

For the reasons stated, I recommend the approval of the above-requested actions by adoption of the resolution below."

Mr. Keith Hayes, Vice President of Economic Development, provided highlights of staff's recommendation to the Board.

On motion made by Trustee Balboni and seconded by Trustee Kress, the following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

WHEREAS, The Western New York Power Proceeds Allocation Board ("Allocation Board") has recommended that the Authority make an award of Fund Benefits from the

Western New York Economic Development Fund ("Fund") to the eligible applicant listed in Exhibit "5d i-1e-A" in the amount indicated;

NOW THEREFORE BE IT RESOLVED, That the Authority hereby accepts the recommendation of the Allocation Board and authorizes an award of Fund Benefits to the applicant listed in Exhibit "5d i-1e-A" in the amount indicated for the reasons set forth in the foregoing report and the exhibits and other information referred to therein, conditioned upon an agreement between the Authority and the applicant on the final terms and conditions that would be applicable to the award and set forth in a written award contract ("Award Contract") between the Authority and the applicant, approved by the President and Chief Executive Officer, or his designee, and approved by the Executive Vice President and General Counsel or his designee, as to form; and be it further

RESOLVED, That the Chief Commercial Officer – Energy Solutions, or such official's designee, is authorized to negotiate with the applicant concerning such final terms and conditions that will be applicable to the award; and be it further

RESOLVED, That the Chief Commercial Officer – Energy Solutions, or such official's designee, is authorized to execute on behalf of the Authority an Award Contract for the award listed on Exhibit "5d i-1e-A" subject to the foregoing conditions; and be it further

RESOLVED, That the Chairman, the Vice Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

f. Proposed Contract for the Sale of Preservation Power – Notice of Public Hearing

The President and Chief Executive Officer submitted the following report:

"SUMMARY

The Trustees are requested to approve: (1) an extension of the firm Preservation Power ('PP') allocation of 240 megawatts ('MW') awarded to Alcoa USA Corp. ('Alcoa') through March 31, 2026 (the 'Extended Allocation'); and (2) authorize a public hearing on the proposed contract entitled 'Agreement for the Sale of Firm Hydroelectric Power and Energy from the ST. Lawrence-FDR Power Project to Alcoa USA Corp.,' including Service Tariff No. AL-1 ('Proposed Contract') for the sale of 240 MW of PP to Alcoa, in accordance with Public Authorities Law ('PAL') §1009 as summarized below.

The Proposed Contract is attached as Exhibit '5d i-1f-A.'

BACKGROUND

Under PAL §1005(13), the Authority may allocate and sell directly or by sale for resale, 490 MW of PP to businesses located in Jefferson, Franklin and St. Lawrence Counties.

As required by PAL §1009, when the Authority has reached agreement with its co-party on a power sale contract, it is required to transmit the proposed contract to the Governor and other elected officials and hold a public hearing on the proposed contract. At least 30-days' notice of the hearing must be given by publication once in each week during such period in each of six selected newspapers. Following the public hearing, the contract may be modified, if advisable.

The current contract between the Authority and Alcoa, entitled 'Agreement for the Sale of Firm Hydroelectric Power and Energy from the St. Lawrence-FDR Power Project to Alcoa Inc.,' dated June 22, 2016 and approved by the Trustees at their March 29, 2016 meeting ('2016 Agreement'), provides for the sale of 245 MW of PP to Alcoa, with a commitment by Alcoa to maintain 600 employees at its Massena West plant. The allocation and Electric Service under the 2016 Agreement is scheduled to expire on March 31, 2019.

In another agreement, known as the Framework Agreement, dated December 18, 2015, entered into by the Authority, Empire State Development and Alcoa Inc. (the 'Framework Agreement'), the parties acknowledged the separation of Alcoa Inc. into two independent publicly traded companies – Alcoa USA Corp. and Arconic Inc. – and agreed that for term of the Framework Agreement, which runs concurrent with the 2016 Agreement, the employees of both of these companies would count toward the employment commitment made by Alcoa, Inc. under the 2016 Agreement. The Framework Agreement allowed for a post-separation novation transferring the rights and obligations under the Framework Agreement and the 2016 Agreement to one of the new companies.

On August 1, 2016, Alcoa Inc. novated its rights and obligations to the Massena Primary Aluminum Operations and transferred them to Alcoa USA Corp., a wholly-owned subsidiary of Alcoa Corporation, and on November 1, 2016, Alcoa Inc. was formally renamed Arconic Inc. Hence, the separation resulted in the creation of two Alcoa-related companies conducting operations in Massena, Alcoa USA Corp. (referred to as Alcoa in this report) and Arconic Inc. ('Arconic'), with Alcoa holding the rights and obligations of the 2016 Agreement, and Arconic's employees counting towards the employment commitment in the 2016 Agreement.

In 2018, the Authority, Alcoa, and Arconic began discussions regarding a possible extension of the PP allocation and Electric Service in light of the March 31, 2019 expiration of Electric Service under the 2016 Agreement. It was determined that a division of the allocation to align with the corporate

restructuring was amenable to all parties, including any necessary physical separation required with regards to distributing and metering PP service to the facility.

At their December 11, 2018 meeting, the Trustees approved, as an award of a new allocation, 5 MW allocation of PP to Arconic which was derived from the original 245 MW PP allocation made to Alcoa, Inc. Arconic committed to retain a minimum of 150 full time jobs in return for the allocation. Staff has proposed that this 5 MW allocation be sold to Arconic under a power sale agreement between the Authority and Arconic and Service Tariff No. 20-A.

The Authority and Alcoa have now reached an agreement pursuant to which the Authority would sell the Extended Allocation of 240 MW to Alcoa under the Proposed Agreement and Service Tariff No. AL-1 ('ST AL-1').

DISCUSSION

The Extended Allocation of PP to Alcoa is in consideration of Alcoa's agreement to, among other things, maintain smelting operations at the West Plant and retain a minimum of 450 full-time employees at the facility. The other key elements of the Proposed Contract are as follows:

1. Power Allocation Quantity

   The Extended Allocation of 240 MW of PP, a reduction from the original allocation of 245 MW, reflects the 5 MW that was awarded to Arconic.

   The firm electric service will be equivalent to that provided to other Authority firm hydropower customers and subject to curtailment when there is insufficient generation at the Niagara and St. Lawrence/FDR facilities to meet the energy requirements of the Authority's firm hydropower customers. In the event of a curtailment of firm hydropower, the Authority will provide energy to Alcoa to replace the hydroelectricity that would otherwise have been supplied, and Alcoa shall pay the Authority directly, the market cost of such energy and all other costs the Authority incurs in connection with the provision of such energy.

2. Pricing

   In accordance with ST AL-1, firm hydroelectric power and energy associated with the allocation will be sold to Alcoa at base rates tied directly to market aluminum prices on the London Metals Exchange and Midwest aluminum premium prices. The monthly base rates include both hydroelectric commodity and NYPA's transmission service charges ('TSC'). Furthermore, the commodity component of the base rates shall be no lower than the overall Rural/Domestic rates charged by the Authority to its qualifying customers. Should the overall Rural/Domestic Rate change, the base rates included in ST AL-1 will be adjusted for the difference.

   Consistent with other tariffs, in addition to the base rate charges, Alcoa will pay all New York Independent System Operator ('NYISO') charges imposed on the Authority by the NYISO with respect to the load serving entity services provided to Alcoa. All taxes, assessments and other charges or costs imposed by third parties, as well as transmission charges will be passed through to Alcoa for payment, including incremental amounts above the TSC embedded in the base rates.

   In addition to general tariff provisions, ST AL-1 includes specific provisions to ensure the Authority's costs are recovered during the term of the Proposed Contract.

3. Clean Energy Standard and Renewable Energy Standard Charges

   As specified in Schedule C of the Proposed Contract, Electric Service under the Proposed Contract is subject to a Monthly CES Charge relating to Zero Emission Credits and Renewable

Energy Credits that the Authority purchases and which are attributable to the load served under the Proposed Contract.

4. Capital Commitments

   Alcoa will agree to commit to $2 million of annual capital investments at the facility and is subject to compliance terms in the Proposed Contract.

5. Energy Usage

   The Extended Allocation is subject to reduction if it is not utilized as required by the Power Contract.

6. Term

   The term of the Extended Allocation and Electric Service under the Proposed Contract would run from April 1, 2019 through and including March 31, 2026, unless Electric Service is ended prior to that date pursuant to the terms of the Proposed Contract.

Because of the 2016 Agreement scheduled to expire on March 31, 2019, and the requirements of the public review and approval process under PAL §1009, the Authority anticipates providing electric service to Alcoa on a short-term, interim basis in accordance with the proposed terms and conditions in the Proposed Contract through December 31, 2019, or until the Proposed Contract is fully executed by the parties, whichever is earlier.

FISCAL INFORMATION

The Proposed Contract will have no fiscal impact related to rates under ST AL-1 because the base rates are not changing.

RECOMMENDATION

The Executive Vice President and Chief Financial Officer recommends that the Trustees (1) approve the allocation of 240 MW firm PP to Alcoa under the Proposed Contract and ST AL-1, (2) authorize a public hearing on the Proposed Contract in accordance with PAL §1009, and (3) authorize the other actions proposed in this report.

For the reasons stated, I recommend the approval of the above-requested action by adoption of the resolution below."

President Quiniones provided highlights of the negotiations for the proposed Preservation Power contract with Alcoa. He said that three years and three months ago, Alcoa was on the verge of completely shutting down its operations in Massena in the North Country. The Governor's office, ESD and NYPA came together and created a plan to save Alcoa and preserve the jobs and associated economic activity in Northern New York.

The contract associated with that plan is due to expire by the end of this month. Today, Alcoa's prospects are now much better and the company's future seems to be a lot brighter than it was three years and three months ago.

As a result, the Authority was able to negotiate a new agreement with Alcoa, which it would like the Board to approve at this meeting. President Quiniones then asked Mr. Robert Lurie, the Authority's Chief Financial Officer, who led the negotiations, along with Mr. Keith Hayes and other staff members, to provide some additional information regarding the new proposed agreement.

Mr. Lurie said that the deal with Alcoa before the Board today, in many ways, is a continuation of the deal that the Authority made with Alcoa in 2015.

In 2015, the Alcoa plant was under severe financial distress. The depression of prices on the world aluminum market was causing severe financial pressure on Alcoa and jobs at the plant were at risk.

As a result, the State intervened with a package of incentives for Alcoa in order to help the plant return to profitability and to support the maintenance of jobs at the plant. At the time, there were about 600 jobs at the plant between Alcoa and the portion of the business that spun off into the now Arconic Inc.

In addition to Alcoa provided with upfront assistance through the Empire State Development Corp., NYPA created a very unique pricing structure for the power for the Alcoa plant in Massena.

That pricing structure was designed to create a partnership between NYPA and Alcoa, in which NYPA agreed to vary its power prices to the company as aluminum prices went up and down in the world and the US markets. NYPA reasoned that when the plant is successful and doing better, NYPA would share in that success, and, essentially, make back some of the funds that it provided at a time the company was struggling. That financial structure has been extremely successful, and has helped stabilize the financial situation and provided a more stable platform for the maintenance of jobs at that plant in the future.

With this new deal, NYPA will maintain that same structure and build on the foundation that it created in 2015. NYPA has agreed to extend that same structure for an additional seven years. Because it varies with the underlying economic factors that drive the plant's profitability, this deal can maintain the test of time, going forward.

This deal contains commitments on the part of Alcoa to maintain 450 jobs at the plant. These are typical compliance provisions in the contracts that NYPA has with all of its other economic development customers. Nevertheless, it allows NYPA to continue in the partnership that it has with Alcoa in the past.

NYPA is pleased that it was able to assist in maintaining the employees' jobs in a place, and at a time, where it would otherwise be very difficult to replace those jobs.

Mr. Keith Hayes, Vice President of Economic Development provided highlights of staff's recommendation to the Board. He said staff is requesting that the Trustees approve an extension of 240 megawatts of Preservation Power to Alcoa USA Corp. which current contract expires on March 31, 2019. He said Alcoa, established in 1902, operates the longest continuing operating plant the in the world located at its West plant in Massena, New York. In exchange for the allocation of Preservation Power under a seven-year term, Alcoa will maintain its operations in Massena, maintain at least 450 jobs, and make $14 million in capital investments commitments.

In November 2016, Alcoa split into two independent, publically traded companies, including a downstream business, Arconic, that specializes in lightweight metals engineering and manufacturing.

Arconic was on the same contract as Alcoa, but now has a second contract, which the Board approved at the December 2018 Trustee meeting, securing an additional 145 jobs in exchange for 5 megawatts of Preservation Power for a ten-year contract term. The contracts now incorporate a more developed approach by the Authority to administering the Preservation Power program in a manner that is consistent with the state's Energy Plan and the Clean Energy Standard.

Consistent with the Authority's other economic development contracts, provisions now exist for the partial or complete withdrawal of an allocation if Alcoa fails to maintain mutually-agreed upon commitments relating to, among other things, employment, power utilization, and capital investment commitments.

The Trustees were also requested to authorize a public hearing on the proposed contract for Alcoa.

Vice Chairman Nicandri added that living in the community affords him first-hand opportunity to observe the effect of the Power Authority's intervention in the keeping of jobs in the St. Lawrence county area. Going back to the events that have taken place at the plant, this support expands over four governorships, including Governor Patterson and now, Governor Cuomo.

Vice Chairman Nicandri said that every day he sees people going to work, seven days a week, 24 hours a day at the Plant. It provides them with an opportunity, as far as their work life is concerned, to educate their children, buy a house, buy a car, and other amenities. He said that Alcoa USA and Arconic, Inc. are, essentially, the biggest employers north of the throughway from east to west in the state of New York. Therefore, this deal affords an opportunity, going forward, for the communities to look for diversification of the economy in that area. In addition, it goes a long way in making it not a "crash job," but something that they can work at with due diligence as the economy change in the area. He ended by saying that, as President Quiniones Gil said, "it's a win, win, situation," and he commended the staff at the Authority for making this deal happen.

Chairman Koelmel said it was great to hear firsthand the acknowledgment and the appreciation from the community. He appreciated the periodic updates to a story trending in the right direction. He said he knew that the Authority was starting at the bottom, and it is great to know that it has gotten to a much more stable and appropriate position. He ended by saying that this is another great example of leading from the front and leaning in where relevant, and thanked the team for a job well done.

On motion made by Vice Chairman Nicandri and seconded by Trustee Trainor, the following resolution, as submitted by the President and Chief Executive Officer, was unanimously adopted.

RESOLVED, That the allocation of 240 MW of Preservation Power to Alcoa USA Corp. ("Alcoa"), as described in the foregoing report of the President and Chief Executive Officer and Exhibit "5d i-1f-A" be, and hereby is, approved; and be it further

RESOLVED, That the Trustees hereby authorize a public hearing pursuant to Public Authorities Law ("PAL") §1009 on the terms of the proposed Agreement For the Sale of Firm Hydroelectric Power and Energy From the St. Lawrence-FDR Power Project to Alcoa (the "Contract"), together with the annexed Service Tariff No. AL-1; and be it further

RESOLVED, That the Corporate Secretary be, and hereby is, authorized to transmit a copy of the Contract attached to the accompanying Report as Exhibit "5d i-1f-A" to the Governor, the Speaker of the Assembly, the Minority Leader of the Assembly, the Chairman of the Assembly Ways and Means Committee, the Temporary President of the Senate, the Minority Leader of the Senate and the Chairman of the Senate Finance Committee pursuant to PAL §1009; and be it further

RESOLVED, That in connection with the proposed Contract, the Corporate Secretary be, and hereby is, authorized to arrange for the publication of a notice of public hearing in six newspapers throughout the State, in

accordance with the provisions of PAL §1009; and be it further

RESOLVED, That the Chairman, the President and Chief Executive Officer, the Chief Operating Officer and all other officers of the Authority are, and each of them hereby is, authorized on behalf of the Authority to do any and all things, take any and all actions and execute and deliver any and all agreements, certificates and other documents to effectuate the foregoing resolution, including the interim delivery of electric service to Alcoa, subject to the approval of the form thereof by the Executive Vice President and General Counsel.

6. Informational Item:

Strategic Plan 2030 - The Climate Change Imperative

Mr. Robert Lurie, Executive Vice President and Chief Financial Officer, said that the Authority is embarking on a new 2030 strategic planning effort. The Authority anchored that effort by looking at the question, "why is the Authority embarking on this plan and what it thinks is the major challenge of its generation," which is the challenge of climate change for this, and the next generation.

As the Authority begins this process, the question is not just why it does strategic planning, but why is it anchoring it to climate change, and why now. Some important changes have taken place over the last few months in the imperative around this issue.

In his state-of-the state message, the Governor proposed a green new deal for the state of New York that is extremely ambitious and challenging. One of NYPA's goal is to figure out how the organization can achieve the Governor's goal and do it in a way that is practical, reliable, affordable and in the best economic interest of the state.

Many corporate organizations have started to propose and require that their own operations have clean energy serving their facilities and that the environmental impacts of their operations be greatly lessened and become more sustainable. To that end, they are requiring from their providers of services, i.e., electric and other services, to help them achieve those goals. Therefore, as a business imperative for NYPA, and the other partners that it does business with, NYPA needs to respond to that challenge.

Americans are now seeing the effects of climate change and are demanding that the public sector begin to address these effects. In fact, there was an article today in the Washington Post that pointed out some of the impacts of climate change. It notes that one Senator, Lamar Alexander of Tennessee, is calling for a "New Manhattan Project for Clean Energy." Another Representative, Paul Tonko of New York, is outlining a framework for climate legislation that is "Doable." A third Legislator, Matt Gaetz, from Florida is drafting his own resolution of a "Green Real Deal." This flurry of proposals came as a result of polling showing that Americans increasingly recognize the conspicuous effects of climate change in their own backyards after being battered by a series of intense wild fires and hurricanes in recent years.

As Paul Tonko said in an interview on Monday, "we cannot try and fail at this effort; we have to get it right." This is NYPA's position as well. And NYPA has to do it in a way that captures the benefits of the response to climate change not only in terms of the economic job creation, but also the environmental improvement that can result. This is the major imperative for our generation.

So we are in the process of what's probably going to be a six-month process for creating our 2030 strategic plan. It began back in February and early March. We had our first off-site workshop really talking about this question of why and our purpose, and aligning our mission with this challenge.

The Authority is in the process of creating its 2030 Strategic Plan. This process began in February. The first off-site workshop discussed the question of "why" and how to align NYPA's mission with this challenge.

At the next Board meeting in May, staff will report to the members the strategies that the Authority will employ to prioritize its efforts in this area in order to make a major impact in New York State's ability to achieve the goals that the Governor laid out. This process will involve some stakeholder engagement with NYPA's employees in addition to outside stakeholders, customers and partners around the state.

Mr. Lurie then introduced Mr. Matthew Lichtash, Electric Transportation Analyst and Ms. Carley Hume, Strategy Project Manager, to make a presentation to the Board on the imperative around the climate change issue and how NYPA is looking at this problem.

Mr. Lichtash said that while the policy landscape and market trends are important reasons behind the Authority's 2030 Strategic Plan, the underpinning is climate change. Greenhouse gas emissions are warming the planet; climate change will depend on NYPA's actions over the next several years.

The magnitude of future climate change will be affected by existing policies to reduce carbon, vehicle fuel efficiency and energy efficiency standards; existing carbon reduction policies will not be enough to reduce warming consistent with a 1.5 degree Celsius future.

Climate change actions done after 2020, the critical juncture, will determine the pathway, i.e. a high-warming pathway or a low-warming pathway. As an example, the arctic is never ice-free in the summer. Under a high-warming pathway, an ice-free arctic in the summer will become a new normal by the end of the century. However, in a low-warming scenario, an ice-free arctic summer is the exception.

Climate change is fueling stronger storms. High-emissions pathways risk catastrophic impacts while low-emissions pathways significantly reduce risk. For example, Hurricane Sandy in New York caused a record 14 feet in storm surge in New York City's Battery Park. Because of higher sea levels and stronger storms pushing those higher sea levels onto land, a "Hurricane Sandy" can occur every other year by the end of the century. However, if emissions are reduced, that risk can be slashed to one every 200 years.

This dichotomy exists for NYPA's assets and for its customers' assets as well. In a low-warming period, the assets will stay above water. However, in a high-warming period, NYPA's key assets will become submerged. In addition, JFK, LaGuardia, Coney Island, Fire Island, and key MTA subway tunnel assets sit at the critical juncture where they are above water in a low-warming future, but submerged in a high-warming future.

Ms. Carley Hume then provided a report on the solutions to climate change. She said that climate change adaptation prepares us to manage the effects of climate change while mitigation aims to prevent climate change. Adaptation prepares us to manage the effects of climate change and mitigation aims to prevent climate change altogether. Adaptation could be storm barriers to protect against rising sea levels or increased grid hardening; however, mitigation is the best solution to climate change. The solutions include investing in renewable energy and decreasing our carbon footprint. A mix of both mitigation and adaptation actions is necessary to ensure a safe world for future generations.

Personal mitigation at home is one way to address climate change. Those mitigation actions include turning off the lights; doing full loads of laundry; take the stairs; unplug electronics not in use; and keep room temperature moderate.

To amplify the impact that we can have in mitigating and adapting to climate change, we can leverage our buying power to demonstrate to companies how we would like them to behave.

Where we work can also have an impact on our carbon emissions and the carbon emissions of the country. NYPA is an organization where we can potentially mitigate global warming with impact at scale with its low cost of capital; longer term investment horizon; 80% carbon-free electrons; a trusted network of stakeholders; and 1,600 employees who are dedicated and who are excited about making these changes.

In summary, the climate is getting warmer and the consequences are likely to be severe and unpredictable. The severity will depend on near-term path and near-term decisions at home and in our communities. Leaders at NYPA can shape our future path by limiting climate change.

7. Board Resolution: Robert Lurie

Chairman Koelmel said he wanted to recognize the Authority's Chief Financial Officer and Chief Strategic Officer, Mr. Robert Lurie, who would be retiring at the end of April.

Chairman Koelmel provided the following remarks:

"I would like to take a few minutes to recognize our soon-to-be-departing CFO and Chief Strategy Officer, Robert Lurie ('Bob'), who will be retiring from NYPA at the end of April. Bob and I started within a month of each other at NYPA in 2012. So, we have had concurrent experiences in supporting the tremendous contribution this organization makes for the benefit of New York's electric power system, economy, and environment. Bob's leadership in financial matters, and otherwise astute judgments, have obviously been critical to NYPA's success over the last seven years, as well as to the very effective oversight of the Canal Corporation for the last three years.

As we heard again today, the high ratings reported by Moody's, S&P, as well as Fitch are really the foundation for our ability to provide low-cost, clean, reliable power, and incurring hundreds of thousands of jobs, and investing in facilities, new technologies, and energy services. Bob, we would not have that favorable standing without you.

You have clearly contributed so much more in recognizing the higher calling that NYPA plays as a public-benefit corporation and as an essential instrument of state government. Your leadership in the development of our strategic vision and subsequent plan epitomizes your passion and commitment for what we do. Those plans and initiatives have become our 'North Star' for supporting, not only Governor Cuomo's ambitious clean energy goals but, for all of us, and, even better, meeting the needs of our customers.

You have obviously been an incredibly formative, or the formative force, I would suggest, in the development of our 'Moonshot' initiatives for electrifying the state's transportation sector, steering future offshore wind and battery energy storage plans.

I also want to thank you, on behalf of the entire Board, for your tremendous, continuous and always respectful counsel and support on a wide range of issues. You always respond in terms that all of us grasp, understand and benefit from. As a result, you help guide us to consistently make the best decisions possible in carrying out our statutory responsibilities.

On a personal note, given my background as a CPA, CFO, COO, and CEO, I learned long ago that the world of Finance is a combination of both Science and Art. In Bob, we got someone who has demonstrated for seven years that he is not only an outstanding scientist, but an even better artist. We witnessed earlier today, he has never built a budget plan he cannot beat – now beating them 30 days into the New Year. But, better said, that combination of skilled scientist and savvy artist is the foundation on which you have earned the full trust and confidence of everyone around this Board table, and beyond.

You are always incredibly calm under fire. In fact, you never even seem to feel the heat; and it is not because we have not tried to turn it up. You consistently find a way to keep it simple, make it work, and solve the problem, both real and perceived. From my seat, you are a tremendous blend of Investment Banker, Public Finance Executive, strategic thinker, Energy Industry expert, savvy negotiator (we were a witness to that again, today), very strong leader, as well as sage adviser — makes for an ideal combination of intellect, experience, creativity, and practical know-how. As a result, you have consistently made all of us very, very comfortable and confident. And, just like 'Allstate,' we always knew we were in good hands.

I can only hope our paths cross again in the years ahead. It would be an honor to serve with you one more time. But, I also accept that's probably wishful thinking on my part. And, seven years with me as your Board's Chair -- that's probably more than any CEO or CFO should have to endure.

So, Bob, on behalf of the entire Board, thank you very, very much for your tremendous service to NYPA and everyone across our state who has benefited from the great work you have done. Be assured, you are leaving us in a much better place than when you arrived in 2012.

Congratulations on a great, great run. We know, the best is still ahead for you and your family; enjoy all that comes your way. Thank you very, very much."

President Quiniones provided the following remarks:

"Today, it is my great privilege to talk about my good friend, Bob Lurie, and his many contributions to NYPA.

Bob joined NYPA at a critical juncture in our industry. Every utility, public or private, was rethinking how it would generate and transmit electricity in the coming era. The demand for renewable sources of energy was growing, as was the need for leaders who thought clearly about what needed to be done.

Fortunately, Bob joined our senior leadership team and we made full use of his unique set of skills and insights.

As a CFO, he helped guide this Authority through a new, turbulent financial period when we were rethinking many of our basic premises. Yet, through it all, NYPA improved and maintained its high ratings for its bonds. We know these ratings conveyed confidence in NYPA's financial strength, and they also demonstrated Wall Street's confidence in our financial leadership.

However, that is only one part of the Bob Lurie story. Bob is also an extraordinary strategist and futurist. Bob listens to podcasts on esoteric subjects and then discusses what he learned at EMC meetings, senior staff gatherings and over lunches and dinners. He talks relentlessly about the evolution of technology and science and how these forces affect the flow of electricity through homes, businesses and community.

Because of his insatiable curiosity and creativity, his contributions to NYPA will be remembered for many years to come. They include developing our Strategic Vision 2020; launching our new EVolve NY program and helping us to become a 'first mover' in battery storage; setting the stage for offshore wind development in the state by analyzing the European experience; and developing strategies to meet the Governor's ambitious Green New Deal plans for New York State.

Additionally, Bob is compassionate and caring. His work on the recovery of Puerto Rico's power system has been truly impressive. He has been a determined advocate for all kinds of exciting innovations that will result in a huge impact in the years to come.

Bob is a model Public Servant. He is well-respected and well-liked throughout NYPA. He has been a great partner to me and the rest of the Executive Management Committee and Senior Staff members, his department and all of NYPA and Canals.

We wish him well and we know that he will not be a stranger."

President Quiniones then read a letter to Bob from the Governor as follows:

"Dear Bob,

I am proud to offer my warm congratulations and thanks as you retire from an exemplary tenure at the New York Power Authority.

Since 2012, your leadership, skill, and dedication has made you an invaluable asset to NYPA, helping to build a cleaner, smarter, and more resilient power grid for New York, while addressing many of our pressing energy and environmental challenges.

Your expertise and guidance have helped immeasurably to modernize the Authority, ensure its continued leadership, and place New York at the forefront of energy reform, and the fight against climate change.

On behalf of all New Yorkers, thank you for your years of leadership service and commitment.

And congratulations, again, on your well-deserved retirement. Best wishes to you, Emily, and your family for much future success and happiness.

Sincerely,

/S/

Governor Andrew M. Cuomo"

Mr. Lurie responded with the following remarks following a video presentation honoring him:

"Well, I have to say, I am totally overwhelmed. That was deeply appreciated. And thank you very much. That was very touching, and I thank you from the bottom of my heart.

I have worked at a bunch of different places before, and I have had the honor of working with several Boards of Directors at private companies and public authorities.

And I have to say that -- and this is really true -- this is, and has been in so many ways, the best Board that I have worked with. Not only are you all very smart, you are very passionate about what you do. Doing the right thing in the right way challenges me and the rest of the staff to bring our best every day when we come to work and when we meet with you and we provide you information. And that has made me a better professional and a better person.

I have to make sure that I am prepared for the questions you are going to fire at me – and they are always appropriate and on point – and make sure that I am on my toes. I thank you for that; it helped make me to be better at my job. And even if you 'bust my chops' once in a while, it is okay, it was worth it.

NYPA, as all of you know, is such a unique place. I have come to appreciate it more and more every day I come to work here. I think I appreciate it by virtue of all of the other places that I have been that do not really rise to NYPA's level in a lot of ways. One of the things that make NYPA unique for me is that it not only allows you to come to work every day with the opportunity both to help people in a very individual way and a very meaningful and deep way, but also to make the world a better place. And I think we saw some of that today. And its mission can really help improve the state and improve the world. It's such a gift that we are all given to be able to affect that every day; and I have tried to show my appreciation for that gift when I come to work.

My only hope is that I leave NYPA a little better than I found it, and that I have not only helped some people outside of NYPA, but also people here, understand their capacity to do great things. And I think we are seeing that now; and we have seen it many times over my seven years.

I really just want to thank my colleagues, my team who have supported me and made me look good even when I have not deserved it; who have covered for my shortcomings and mistakes that show up from time to time, and who were forced to hear me out when I shared what I thought, to do things the right way, even if they disagreed with it. But, most of all, I want to thank you, Gil, because you have showed complete confidence in me from day 'one' seven years ago. You have inspired me every day with your passion, your intelligence, and your strong moral compass. And you are someone who understands that loyalty is earned only if it is a two-way street. You will always have my loyalty, Gil, and as will all of you, and I want to thank you all very much for this honor."

Chairman Koelmel thanked Bob for his kind remarks, saying that they were a classic, final wrap up of who he is and what he is about; the difference he makes, and the trust and confidence that he has instilled in those that work with him and all who have had the pleasure of knowing him; and the tremendous impact he has made. He continued that Bob deserved all that recognition, and much, much, more and thanked him again on behalf of all the Board members and all of NYPA as an organization.

On motion made by Vice Chairman Nicandri and seconded by Trustee Kress, the attached Resolution (Exhibit "7-A") was unanimously adopted.

8. Board Committee Reports:

a. Governance Committee

Chairperson Anne Kress said that the Governance Committee met this morning and approved a Consent Agenda that included, among other things, the October 2, 2018 and January 30, 2019 meeting minutes; resolutions to recommend various items to the Board, which were included on today's Board Consent agenda, and a report on the Authority and Canal Corporation Ethics and Compliance program.

Chairperson Kress said that an additional resolution was presented that appointed Lee Garza as Acting Chief Financial Officer beginning May 1, 2019. This appointment provides interim leadership for that space pending the appointment of a new Executive Vice President and Chief Financial Officer following the retirement of Robert Lurie.

b. Audit Committee

Chairman Eugene Nicandri said that the Audit Committee met earlier today and approved the minutes of the last meeting in December. In addition, the committee also received an Internal Audit update report of the Authority and Canal Corporation from Angela Gonzalez.

Chairman Nicandri said that the Committee also received a 2018 financial report from Lee Garza, and adopted a motion to recommend the approval of the year-end 2018 Financial Report, which was included on today's Board Consent Agenda. The committee reviewed the 2018 Annual Audit of Financial Statements with the Authority's external auditors, KPMG.

9. Next Meeting

The regular joint meeting of the New York Power Authority Board of Trustees and Canal Corporation's Board of Directors will be held on May 21, 2019 **at the Clarence D. Rappleyea Building, White Plains, New York,** unless otherwise designated by the Chairman with the concurrence of the Trustees.

Closing

On motion made by Vice Chair Nicandri and seconded by member Anne Kress, the meeting was adjourned at approximately 12:52 p.m.

Karen Delince
Karen Delince
Corporate Secretary

EXHIBIT A
MARCH 26, 2019

FORM No. RNY 03-26-19

POWER AUTHORITY

OF THE

STATE OF NEW YORK

30 South Pearl Street
10th Floor
Albany, New York 12207-3425

AGREEMENT FOR THE SALE OF RECHARGE NEW YORK POWER AND ENERGY

[CUSTOMER]

The Power Authority of the State of New York ("Authority"), created pursuant to Chapter 772 of the New York Laws of 1931 and existing under Title 1 of Article 5 of the New York Public Authorities Law ("PAL"), with offices and principal place of business at 30 South Pearl Street, 10th Floor, Albany, New York 12207-3425 ("Authority"), hereby enters into this Agreement for the Sale of Recharge New York Power and Energy ("Agreement") with _____, with offices located at _____ ("Customer"). The Authority and the Customer are from time to time referred to in this Agreement individually as a "Party" or collectively as the "Parties."

RECITALS

WHEREAS, the Authority is authorized to make available to, contract with and sell to "eligible applicants" located in New York State "Recharge New York Power" ("RNY Power") as provided for in PAL § 1005(13-a) and Economic Development Law ("EDL") § 188-a;

WHEREAS, the Authority has made an award of RNY Power to the Customer (defined in Article 1 of this Agreement as the "Awarded Allocation") consisting of equal amounts of "RNY Hydropower" and "RNY Market Power" as specified in Schedule A of this Agreement;

WHEREAS, the Customer has (i) elected to purchase the RNY Hydropower and the RNY Market Power (if any) as specified in Schedule A of this Agreement (defined in Article 1 of this Agreement as the "Accepted Allocation"), or (ii) has agreed to purchase an existing Accepted Allocation for the extended term as specified in Schedule A;

WHEREAS, the Trustees have authorized the Authority to, among other things, provide electric service to the Customer at the rates and on the terms and conditions provided for in this Agreement and the applicable Authority service tariff as described herein to enable the Customer to receive the Accepted Allocation; and

NOW THEREFORE, in consideration of the mutual covenants herein, the Authority and the Customer agree as follows:

ARTICLE I
DEFINITIONS

When used with initial capitalization, whether singular or plural, the following terms, as used in this Agreement, shall have the meanings as set forth below. When used with initial capitalization, whether singular or plural, terms defined in schedules, appendices and/or exhibits to this Agreement shall have the meanings set forth in such schedules or appendices.

"Agreement" means this Agreement as further described in the preamble, including all schedules, appendices and other materials incorporated into the Agreement.

"Accepted Allocation" means (i) that portion of the Awarded Allocation that the Customer has elected to accept and purchase in accordance with this Agreement, or (ii) an existing Accepted Allocation that the Customer has agreed to purchase for an extended term, as specified in Schedule A.

"Awarded Allocation" means the amount of RNY Power awarded to the Customer as specified in Schedule A of this Agreement which consists of equal amounts of RNY Hydropower and RNY Market Power.

"Billing Period" has the meaning set forth in Service Tariff No. RNY-1.

"Contract Demand" has the meaning set forth in Service Tariff No. RNY-1.

"Effective Date" means the date that this Agreement is fully executed by the Parties.

"Electric Service" is Firm Power and Firm Energy associated with the Accepted Allocation and sold to the Customer in accordance with the provisions of this Agreement, Service Tariff No. RNY-1 and the Rules.

"Expansion Project" has the meaning set forth in Section VI.2 of this Agreement.

"Facility" means the Customer's place of business specified in Schedule A to this Agreement that will receive or is receiving the Accepted Allocation.

"FERC" means the Federal Energy Regulatory Commission (or any successor organization).

"FERC License" means the license issued by FERC to the Authority for the continued operation and maintenance of the Niagara Power Project, pursuant to Section 15 of the Federal Power Act, which license became effective September 1, 2007 after expiration of the Project's original license issued in 1957, and/or the license issued by FERC to the Authority for the continued operation and maintenance of the St. Lawrence-FDR Power Project, pursuant to Section 15 of the Federal Power Act, which became effective November 1, 2003 after expiration of the Project's original license issued in 1953.

"Firm Energy" has the meaning set forth in Service Tariff No. RNY-1.

"Firm Power" has the meaning set forth in Service Tariff No. RNY-1.

"Hydro Projects" is a collective reference to the Authority's Niagara Power Project, FERC Project No. 2216, and St. Lawrence-FDR Power Project, FERC Project No. 2000.

"International Joint Commission" (or "IJC") refers to the entity with responsibility to prevent and resolve disputes between the United States of America and Canada under the *1909 Boundary Waters Treaty* and pursues the common good of both countries as an independent and objective advisor to the two governments. The IJC rules upon applications for approval of projects affecting boundary or transboundary waters and may regulate the operation of these projects.

"Load Serving Entity" or "LSE" has the meaning established by the NYISO in NYISO Tariffs as may be modified from time to time.

"Metering Arrangement" has the meaning set forth in Section II.6 of this Agreement.

"Niagara Project" means the Authority's Niagara Power Project, FERC Project No. 2216.

"NYEM" means the New York Energy Manager, an energy management center owned and operated by the Authority.

"NYEM Agreement" means a written agreement between the Authority and the Customer providing for the Facility's enrollment and Customer's participation in NYEM.

"NYEM Participation" has the meaning specified in Schedule B of this Agreement.

"NYISO" means the New York Independent System Operator, Inc. or any successor organization.

"NYISO Charges" has the meaning set forth in the Service Tariff No. RNY-1.

"NYISO Tariffs" means the NYISO's Open Access Transmission Tariff or the NYISO's Market Administration and Control Area Services Tariff, as applicable, as such tariffs are modified from time to time, or any successor to such tariffs.

"Other NYPA Power" means power and energy, other than RNY Power, which the Authority allocates and sells to the Customer pursuant to statute and/or contract.

"Physical Energy Audit" means a physical evaluation of the Facility in a manner approved by the Authority that includes at a minimum the following elements: (a) an assessment of the Facility's energy use, cost and efficiency which produces an energy utilization index for the Facility (such as an Energy Use Intensity or Energy Performance Indicator); (b) a comparison of the Facility's energy utilization index to indices for similar buildings/facilities; (c) an analysis of low-cost/no-cost measures for improving energy efficiency; (d) a listing of potential capital improvements for improving energy consumption; and (e) an initial assessment of potential costs and savings from such measures and improvements.

"PSC" means the Public Service Commission of the State of New York.

"Recharge New York Power" (or "RNY Power") refers to Firm Power and Firm Energy that the Authority is authorized to allocate and sell as provided for in PAL § 1005(13-a) and EDL § 188-a.

"Reporting Period" shall have the meaning specified in Section II.1 of Schedule B of this Agreement.

"RNY Hydropower" means "recharge New York hydropower" as defined in PAL § 1005(13-a)(b), which as more specifically provided for in such statutory provision refers to a certain 455 MW of firm hydroelectric power from the Niagara Project and St. Lawrence Project.

"RNY Market Power" means "recharge New York market power" as defined in PAL § 1005(13-a)(b), which as more specifically provided for in such statutory provision refers to 455 MW of power that the Authorized to procure through market sources, a competitive procurement process, or Authority sources other than the Niagara Project and St. Lawrence Project.

"Rules" refers to the Authority's Rules and Regulations set forth in Chapter X of Title 21 of the Official Compilation of Codes, Rules and Regulations of the State of New York, as may be modified from time to time by the Authority.

"Schedule A" refers to the Schedule A entitled "RNY Power Allocations" which is attached to and made part of this Agreement.

"Schedule B" refers to the Schedule B entitled "RNY Power Supplemental Commitments" which, along with its attachments/appendices, is attached to and made part of the Agreement.

"Schedule C" refers to the Schedule C entitled "Takedown Schedule" which is attached to and made part of the Agreement.

"Schedule D" refers to the Schedule D entitled "Monthly Clean Energy Implementation Charge" which is attached to and made part of this Agreement.

"Service Information" has the meaning set forth in Section II.13 of this Agreement.

"Service Tariff No. RNY-1" means the Authority's Service Tariff No. RNY-1 issued March 27, 2012, as modified from time to time by the Authority, and which contains, among other things, the schedule establishing rates and other commercial terms for sale of Electric Service to Customer under this Agreement. Service Tariff No. RNY-1 shall be applicable to Electric Service provided to the Customer under this Agreement as of the Effective Date until such time as another Authority tariff applies.

"St. Lawrence Project" means the St. Lawrence-FDR Power Project, FERC Project No. 2000.

"Substitute Energy" means energy the Authority procures and sells to the Customer for the purpose of replacing RNY Hydropower that is not supplied to the Customer due to a curtailment made in accordance with this Agreement and Service Tariff No. RNY-1.

"Supplemental Power" means default or supplemental power and associated energy that is required by the Customer because the Customer's Accepted Allocation and Other NYPA Power do not satisfy its full electric load.

"Takedown" means the portion of the Allocation that Customer requests to be scheduled for a specific period as provided for in Schedule C, if applicable.

"Takedown Schedule" means a schedule agreed to by the Parties pursuant to which the Accepted Allocation will be made available to the Customer.

"Taxes" have the meaning set forth in Service Tariff No. RNY-1.

"Unforced Capacity" (or "UCAP") means the electric capacity required to be provided by Load Serving Entities to serve electric load as defined by the NYISO Tariffs and NYISO rules, manuals and procedures.

"Utility Tariff" means the retail tariff(s) of the Customer's local electric utility filed and approved by the PSC covering the delivery of RNY Power and the sale and delivery of Supplemental Power and RNY Market Power.

ARTICLE II
ELECTRIC SERVICE

1. The Authority will provide Electric Service to enable the Customer to receive the Accepted Allocation for the applicable term in accordance with this Agreement, Service Tariff No. RNY-1 and the Rules. A copy of Service Tariff No. RNY-1 in effect upon the execution of this Agreement is attached to this Agreement as Exhibit 1, and will apply under this Agreement with the same force and effect as if fully set forth herein. The commencement of Electric Service shall be subject to the terms of this Agreement, Service Tariff No. RNY-1 and the Rules, and the applicable operating procedures of the Authority, the Customer's local electric utility and the NYISO.

2. Service Tariff No. RNY-1 is subject to revision by the Authority from time to time, and if revised, the revised provisions thereof will apply under this Agreement with the same force and effect as if set forth herein. The Authority will provide at least thirty (30) days prior written notice to the Customer of any proposed change in the Rules or Service Tariff No. RNY-1.

3. The Customer shall not be entitled to receive Electric Service for any RNY Power that is not identified as an Accepted Allocation on Schedule A.

4. The Contract Demand may not exceed the Accepted Allocation.

5. If Schedule C specifies a Takedown Schedule for the Accepted Allocation, the Authority will provide Electric Service with respect to the Accepted Allocation in accordance with such Takedown Schedule.

6. As part of its Electric Service to the Customer, the Authority will provide UCAP in amounts necessary to meet the Customer's NYISO Unforced Capacity requirements associated with the Accepted Allocation in accordance with NYISO Tariffs. The Customer shall be responsible to pay the Authority for such UCAP in accordance with Service Tariff No. RNY-1.

7. The Customer's Facility must be metered by the Customer's local electric utility in a manner satisfactory to the Authority, or another metering arrangement satisfactory to the

Authority must be provided (collectively, "Metering Arrangement"). A Metering Arrangement that is not satisfactory to the Authority shall be grounds for the Authority in its sole discretion to withhold, suspend, or terminate Electric Service to the Customer. After commencement of Electric Service, the Customer shall notify the Authority in writing within thirty (30) days of any alteration to the Facility's Metering Arrangement, and provide any information requested by the Authority (including Facility access) to enable the Authority to determine whether the Metering Arrangement remains satisfactory. If an altered Metering Arrangement is not made to conform to the Authority's requirements within thirty (30) days of a determination it is unsatisfactory, the Authority may in its sole discretion withhold, suspend, or terminate Electric Service on at least ten (10) days' prior written notice to the Customer. The Authority may, in its sole discretion, waive any of the requirements provided for in this Section II.7 in whole or in part where, in the Authority's judgment, another mechanism satisfactory to the Authority can be implemented to enable the Authority to receive pertinent, timely and accurate information relating to the Customer's energy consumption and demand and render bills to the Customer for all charges that become due in accordance with this Agreement, Service Tariff No. RNY-1 and the Rules.

8. If the Customer has elected to purchase RNY Market Power from the Authority as part of the Accepted Allocation, the Customer may request a modification of such election to elect to purchase solely the RNY Hydropower component of the Accepted Allocation. Such request must be made in writing and may only be made for the full amount of RNY Market Power purchased from the Authority. If the Authority in its sole discretion accepts the request, the Authority will effectuate such cancellation as soon as practicable, taking into consideration any commitments the Authority has made under contracts entered into with third parties for the purpose of securing supply and delivery of RNY Market Power supply and delivery for the Customer and other RNY Power program customers. The Authority shall have the right its sole discretion to reject a request for modification to the extent the Authority determines that such modification would unreasonably increase the costs chargeable to other RNY Power program customers or cause the Authority to incur unrecoverable costs. If the Customer's election is modified pursuant to this provision, the Authority shall have no further obligation to sell RNY Market Power to the Customer for the remaining term of the corresponding Accepted Allocation unless the Authority agrees in writing with the Customer to do so.

9. The Customer acknowledges and agrees that: (a) one or more local electric utilities will be responsible for delivering the Accepted Allocation to the Facility specified in Schedule A, and the Authority has no responsibility for delivering the Accepted Allocation to the Facility; and (b) unless otherwise agreed to by the Authority in writing, the Customer shall be responsible for securing the agreement or consent of any party that is needed for delivery of the Accepted Allocation to the Facility.

10. By entering into this Agreement, the Customer consents to the exchange of information between the Authority and the Customer's local electric utility pertaining to the Customer that such parties determine is necessary to provide for the sale and delivery of RNY Power to the Customer, the proper and efficient implementation of the RNY Power program, billing related to RNY Power, and/or the performance of such parties' obligations under any contracts or other arrangements between them relating to such matters. In addition, the Customer

agrees to complete such forms and consents that the Authority determines are necessary to effectuate such exchanges of information.

11. The Authority may modify, suspend or terminate Electric Service under this Agreement or modify, suspend, or terminate the quantities of power and energy associated with any Accepted Allocation: (a) if such modification, suspension, or termination is required to comply with any final ruling, order or decision of any regulatory or judicial body of competent jurisdiction (including any licensing or re-licensing order or orders of the FERC); (b) the Customer becomes ineligible to receive the Accepted Allocation; or (3) as otherwise provided in this Agreement, Service Tariff No. RNY-1, or in the Rules. Unless such notice is not practicable, the Authority will provide thirty (30) days prior written notice to the Customer before any such modification, suspension, or termination.

12. The Accepted Allocation may be modified by the Authority if the amount of power and energy available for sale as RNY Power from the Hydro Projects is modified as required to comply with any ruling, order or decision of any regulatory or judicial body having jurisdiction. Any such modification will be made on a *pro rata* basis to all of the Authority's RNY Power customers, as applicable, based on the terms of such ruling, order or decision. Unless such notice is not practicable, the Authority will provide thirty (30) days prior written notice to the Customer before any such modification.

13. The provision of Electric Service by the Authority shall be dependent upon the existence of a written agreement between the Authority and the Customer's local electric utility providing for the delivery of RNY Power on terms and conditions that are acceptable to the Authority.

14. The Customer understands and acknowledges that the Authority may from time to time require the Customer to complete forms, provide documentation, execute consents and provide other information (collectively, "Service Information") that the Authority determines is necessary for the provision of Electric Service, the delivery of RNY Power, billing related to the RNY Power Program, the effective and proper administration of the RNY Power program, and/or the performance of contracts or other arrangements between the Authority and the Customer's local electric utility. The Customer's failure to provide such Service Information on a timely basis shall be grounds for the Authority in its sole discretion to modify, suspend, or terminate Electric Service to the Customer.

ARTICLE III
RATES FOR ELECTRIC SERVICE

1. The Customer shall pay for Electric Service and all other applicable charges, fees and assessments in accordance with this Agreement, Service Tariff No. RNY-1 and the Rules. Unless otherwise specified in this Agreement or Service Tariff No. RNY-1, Electric Service shall

be subject to the Billing Demand and Billing Energy rates and other charges as provided for in Service Tariff No. RNY-1.

2. No provision of this Agreement or Service Tariff No. RNY-1 shall be construed as a promise, representation or warranty of any nature whatsoever, express or implied, by the Authority that the provision of Electric Service will result in the Customer at any time (i) paying less for electricity than the amount it would have paid had the Customer not entered into this Agreement or procured electric service from another source, or (ii) receiving any other economic, reliability or other benefit except and to the extent expressly set forth in this Agreement or such tariff.

3. Notwithstanding any other provision of this Agreement, Service Tariff No. RNY-1, or the Rules, the demand and energy rates for Electric Service shall be subject to increase by the Authority at any time upon thirty (30) days prior written notice to the Customer if, after consideration by the Authority of its legal obligations, the marketability of the output or use of the Hydro Projects and the Authority's competitive position with respect to other suppliers, the Authority determines in its discretion that increases in rates obtainable from any other Authority customers will not provide revenues, together with other available Authority funds not needed for operation and maintenance expenses, capital expenses, and reserves, sufficient to meet all requirements specified in the Authority's bond and note resolutions and covenants with the holders of its financial obligations. The Authority shall use its best efforts to inform the Customer at the earliest practicable date of its intent to increase the power and energy charges pursuant to this Section III.3. Any rate increase to the Customer under this Section III.3 shall be on a non-discriminatory basis as compared to other Authority customers receiving RNY Power after giving consideration to the factors set forth in the first sentence of this Section III.3. With respect to any such increase, the Authority shall forward to the Customer with the notice of increase, an explanation of all reasons for the increase, and shall also identify the sources from which the Authority will obtain the total of increased revenues and the basis upon which the Authority will allocate the increased revenue requirements among its customers. Any such increase in rates shall remain in effect only so long as the Authority determines such increase is necessary to provide revenues for the purposes stated in this Section III.3.

4. In addition to all other fees, assessments and charges provided for in the Agreement, Service Tariff No. RNY-1 and the Rules, the Customer shall be subject to the Monthly Clean Energy Implementation Charge provided in Schedule D.

ARTICLE IV
BILLING; BILLING METHODOLOGY

1. The amount of energy and demand that will be used by the Authority for Customer billing purposes shall be determined based on the methodology provided for in any agreements between the Authority and the Customer's local electric utility regarding the delivery of RNY Power. An alternative basis for billing may be used provided the Parties agree in writing and the

Customer's local electric utility provides its consent if the Authority determines that such consent is necessary.

2. The Authority will render bills to the Customer for Electric Service relating to the Customer's Accepted Allocation on or before the fifteenth (15^{th}) business day of the month for charges due for the previous Billing Period. Bills will reflect the amounts due and owing in accordance with this Agreement, Service Tariff No. RNY-1 and the Rules, and are subject to adjustment as provided for in this Agreement, Service Tariff No. RNY-1 and the Rules. As provided in Service Tariff No. RNY-1, bills will include NYISO Charges and Taxes associated with the Accepted Allocation and all other applicable charges, fees and assessments provided for in the Agreement, Service Tariff No. RNY-1 and the Rules. NYISO Charges shall be subject to adjustment consistent with any subsequent NYISO re-billings to Authority.

3. Unless otherwise agreed to by the Authority and the Customer in writing, the Authority shall render bills to the Customer electronically.

4. Bills are due and payable by the Customer within twenty (20) days of the date on which the Authority renders the bill. Unless otherwise agreed to by the Authority in writing, bills are due and payable by electronic wire transfer in accordance with the Rules. Such wire transfer shall be made to J P Morgan Chase NY, NY / ABA021000021 / NYPA A/C # 008-030383, unless otherwise indicated in writing by the Authority.

5. The Authority and the Customer may agree in writing to an alternative method for the rendering of bills and for the payment of bills, including but not limited to the use of an Authority-established customer self-service web portal.

6. The Authority will charge and collect from the Customer all Taxes (including local, state and federal taxes and any applicable equivalent or "in lieu of" payments) the Authority determines are applicable, unless the Customer furnishes the Authority with proof satisfactory to the Authority that (i) the Customer is exempt from the payment of any such Taxes, and/or (ii) the Authority is not obligated to collect such Taxes from the Customer. If the Authority is not collecting Taxes from the Customer based on the circumstances described in (i) or (ii) above, the Customer shall immediately inform the Authority of any change in circumstances relating to its tax status that would require the Authority to charge and collect such Taxes from the Customer.

7. If the Customer fails to pay any bill when due, the Authority may add an interest charge of two percent (2%) of the amount unpaid thereto as liquidated damages, and thereafter, as further liquidated damages, may add an additional interest charge of one and one-half percent (1 1/2%) of the unpaid sum shall be added on the first day of each succeeding Billing Period until the amount due, including interest, is paid in full.

8. If the Customer disputes any item of any bill rendered by Authority, the Customer shall pay such bill in full within the time provided for by this Agreement, and adjustments, if appropriate, will be made thereafter.

9. If at any time after commencement of Electric Service the Customer fails to make complete and timely payment of any two (2) bills for Electric Service, the Authority may in its discretion: (a) require the Customer to deposit with the Authority a sum of money in an amount equal to all charges that would be due under this Agreement for Electric Service for two (2) consecutive calendar months as estimated by the Authority, which sum shall be deemed security for the payment of unpaid bills and/or other claims of the Authority against the Customer upon termination of Electric Service; (b) suspend Electric Service; or (c) modify or terminate Electric Service. If the Customer fails or refuses to provide a security the deposit within thirty (30) days of a request pursuant to this Section IV.9, the Authority may modify, suspend, or terminate Electric Service to the Customer.

10. The rights and remedies provided to the Authority in this Article IV are in addition to any and all other rights and remedies available to Authority under this Agreement, Service Tariff No. RNY-1 and the Rules, and at law or in equity.

ARTICLE V
TRANSMISSION AND DELIVERY

1. The Customer shall be responsible for complying with all requirements of its local electric utility (including any other interconnecting utilities) that are necessary to enable the Customer to receive delivery service for RNY Power.

2. The Customer shall be solely responsible for paying its local electric utility for delivery service associated with the Accepted Allocation in accordance with the Utility Tariff. Should the Authority incur any charges associated with such delivery service, the Customer shall be responsible for reimbursing the Authority for all such charges.

3. The Customer shall be responsible for obtaining any consents and agreements from any third party that are necessary for the delivery of the Accepted Allocation to the Facility, and for complying with the requirements of any such third party, provided that any such consents, agreements and requirements shall be subject to the Authority's approval.

4. The Customer shall be solely responsible for procuring and paying for the procurement, transmission and delivery of (i) all Supplemental Power required by the Customer, and (ii) all RNY Market Power the Customer has elected to purchase from a person other than the Authority, and should the Authority incur charges associated with the procurement, transmission, or delivery of such Supplemental Power or such RNY Market Power, the Customer shall reimburse the Authority for all such charges.

5. Delivery of Accepted Allocations shall be subject to the Utility Tariff.

6. The Customer understands and acknowledges that delivery of the Accepted Allocation will be made over transmission facilities under the control of the NYISO. The Customer understands and agrees that it shall be responsible to the Authority for all costs incurred by the Authority with respect to the Accepted Allocation for services established in the NYISO Tariffs or any other applicable tariff as provided for in Service Tariff No. RNY-1.

7. The Authority will act as the Load Serving Entity for the Customer's Accepted Allocation (*i.e.*, RNY Hydropower, and RNY Market Power as long as it is purchased from the Authority), or the Authority may arrange for another entity to do so on its behalf. Except as provided for in Article VII of this Agreement with regard to Substitute Energy, the Authority shall not act as the LSE or perform any LSE functions with respect to any (i) Supplemental Power required or consumed by Customer, or (ii) RNY Market Power purchased from a person other than the Authority.

ARTICLE VI
RNY POWER SUPPLEMENTAL COMMITMENTS

1. Schedule B sets forth the Customer's "RNY Power Supplemental Commitments" ("Supplemental Commitments"). The Authority's obligation to provide Electric Service under this Agreement is expressly conditioned upon the Customer's timely compliance with the Supplemental Commitments described in Schedule B as further provided in this Agreement. The Customer's Supplemental Commitments are in addition to all other commitments and obligations provided in this Agreement.

2. If Schedule B provides for the construction of a new facility or an expansion of an existing facility (collectively, "Expansion Project"), and the Customer fails to complete the Expansion Project by the date specified in Schedule B, the Authority may, in its discretion, (i) cancel the Allocation, or (ii) if it believes that the Expansion Project will be completed in a reasonable time, agree with the Customer to extend the time for completion of the Expansion Project.

3. If the Expansion Project results in a completed Facility that is only partially operational, or is material different than the Expansion Project agreed to in Schedule B (as measured by such factors as size, capital investment expenditures, capital improvements, employment levels, estimated energy demand and/or other criteria determined by the Authority to be relevant), the Authority may, in its discretion, on its own initiative or at the Customer's request, make a permanent reduction to the Allocation and Contract Demand to an amount that the Authority determines to fairly correspond to the completed Facility.

4. The Customer shall give the Authority not less than ninety (90) days' advance written notice of the anticipated date of completion of an Expansion Project. The Authority will inspect the Expansion Project for the purpose of verifying the status of the Expansion Project and notify Customer of the results of the inspection. The Authority will thereafter commence Electric Service within a reasonable time subject to the other provisions of this Agreement based on applicable operating procedures of the Authority, Customer's local electric utility and NYISO.

5. In the event of an Expansion Project being completed in multiple phases, at the Customer's request the Authority may, in its discretion, allow commencement of part of the Allocation upon completion of any such phase, provided the Authority will similarly inspect the Expansion Project for the purpose of verifying the status of the completed phase of the Expansion Project. Upon such verification by the Authority of any such completed phase, the Authority, in

its discretion, will determine an amount of kW that fairly corresponds to the completed phase of the Expansion Project, taking into account relevant criteria such as any capital expenditures, increased employment levels, and/or increased electrical demand associated with the completed phase of the Expansion Project.

6. Nothing in this Article is intended to limit the Authority's rights and remedies provided for in the other provisions of this Agreement, including without limitation the provisions in Schedule B of this Agreement.

ARTICLE VII
HYDROPOWER CURTAILMENTS AND SUBSTITUTE ENERGY

1. If, as a result of reduced water flows caused by hydrologic conditions, there is insufficient energy from the Hydro Projects to supply the full power and energy requirements of the Authority's firm power customers served from the Hydro Projects, the Authority will have the right to curtail the amount of firm power and energy to which the Customer is entitled as RNY Hydropower under this Agreement in accordance with Service Tariff No. RNY-1. The provision of RNY Market Power, if any, sold to the Customer by the Authority is not subject to curtailment pursuant to this Article VII. The Authority shall provide Substitute Energy to the Customer and the Customer shall pay for such Substitute Energy in accordance with Service Tariff No. RNY-1.

2. The Authority may require the Customer to enter into a separate agreement relating to the provision and sale of Substitute Energy. The provisions of this Agreement will remain in effect notwithstanding the existence of any such separate agreement.

ARTICLE VIII
CONFLICTS

In the event of any inconsistencies, conflicts, or differences between the provisions of Service Tariff No. RNY-1 and the Rules, the provisions of Service Tariff No. RNY-1 will govern. In the event of any inconsistencies, conflicts or differences between the Service Tariff No. RNY-1 or the Rules and any provisions of this Agreement, the provisions of this Agreement will govern.

ARTICLE IX
ADDITIONAL ALLOCATIONS

Upon proper application by the Customer, the Authority may in accordance with applicable law and Authority procedures decide to award additional allocations of RNY Power to the Customer at such rates and on such terms and conditions as the Authority establishes. If the Customer agrees to purchase Electric Service associated with any such additional allocations, the Authority may in its sole discretion: (a) modify Schedule A to this Agreement or issue a supplemental Schedule A to reflect any additional allocations, and issue a modified Schedule B if the Authority determines such action to be appropriate; or (b) offer the Customer a separate contract with the Authority for the purchase of any additional allocations.

ARTICLE X
ENERGY SERVICES

The Authority may periodically communicate with the Customer for the purpose of informing the Customer about energy-related projects, programs and services ("Energy Services") offered by the Authority that in the Authority's view could provide value to the Customer and/or provide other benefits, such as support the State's Clean Energy Standard. The Customer agrees to consider all such Authority communications in good faith, provided, however, that, except as otherwise provided for in this Agreement, participation in any such Energy Services shall be at the Customer's option, and subject to such terms and conditions agreed to by the Parties in one or more definitive agreements.

ARTICLE XI
NOTICES

1. Notices, consents, authorizations, approvals, instructions, waivers or other communications provided in this Agreement shall be in writing and transmitted to the Parties as follows:

To Authority:

Manager, Business Power Allocations & Compliance
New York Power Authority
123 Main Street
White Plains, New York 10601
Telephone: (914) 681-6200
Facsimile: (914) 390-8156
Electronic mail: recharge.newyork@nypa.gov

To Customer:

Name:_____
Title:_____
Company:_____
Address:_____
Telephone: _____
Facsimile: _____
Electronic mail:_____

2. Except where otherwise herein specifically provided, any notice, communication or request required or authorized by this Agreement by either Party to the other shall be deemed properly given: (a) if sent by U.S. First Class mail addressed to the Party at the address set forth above; (b) if sent by a nationally recognized overnight delivery service, two (2) calendar days after being deposited for delivery to the appropriate address set forth above; (c) if delivered by hand, with written confirmation of receipt; (d) if sent by facsimile to the appropriate fax number as set forth above, with written confirmation of receipt; (e) if sent by electronic mail to the appropriate

address as set forth above, with written confirmation of receipt; or (f) if sent by electronic file or data transfer to the appropriate address as set forth above, with written confirmation of receipt. Either Party may change the addressee and/or address for correspondence sent to it by giving written notice in accordance with the foregoing.

ARTICLE XII
SUCCESSORS AND ASSIGNS; TRANSFERS; RESALE

1. This Agreement shall be binding upon, shall inure to the benefit of, and may be performed by, the legal successors and assigns of either Party hereto, provided that no assignment by either Party or any successor or assignee of such Party of its rights and obligations hereunder shall be made or become effective without the prior written consent of the other Party.

2. The Customer may not transfer any portion of the Awarded Allocation or Accepted Allocation, or any right or contract associated with the Awarded Allocation or Accepted Allocation, to any other person, or to a location different than the Facility, unless: (a) the Authority in its discretion agrees in writing to the transfer; and (b) all other requirements applicable to a transfer, including board approvals, are satisfied. In addition, the Authority may require such approvals, and such consents and other agreements from the Customer and other parties, that the Authority determines are necessary in order to effectuate any such assignment. Any purported transfer that does not comply with the foregoing requirements shall be invalid and constitute grounds for the Authority in its sole discretion to suspend Electric Service, or and terminate the Awarded Allocation, the Accepted Allocation and/or this Agreement.

3. The Customer may not sell any portion of the Awarded Allocation or Accepted Allocation to any other person. Any purported sale shall be invalid and constitute grounds for the Authority in its sole discretion to suspend Electric Service, or terminate the Awarded Allocation, Accepted Allocation and/or this Agreement.

ARTICLE XIII
EFFECTIVENESS; TERMINATION; EFFECT

1. This Agreement shall become effective and legally binding on the Parties on the Effective Date.

2. Electric Service under this Agreement shall continue until the earliest of: (a) termination by the Customer with respect to all of the Accepted Allocation upon at least ninety (90) days prior written notice to the Authority; (b) termination by Authority in accordance with this Agreement, Service Tariff No. RNY-1 and/or the Rules; or (c) expiration of the term of the Accepted Allocation. Notwithstanding termination of the Agreement or expiration of the term of the Accepted Allocation, each Party's rights and obligations to render invoices, and make and receive payments for deliveries and performance rendered prior to termination, and with respect to audit, reporting, review, adjustments and disputes, shall remain in effect until fully discharged.

3. The Customer may exercise a partial termination of the Accepted Allocation upon at least ninety (90) days prior written notice to the Authority. Unless otherwise agreed to by the

Parties in writing, the termination shall be effective commencing with the first Billing Period following the required ninety-day prior written notice period. In the event of a partial termination, the Authority will furnish the Customer with a revised Schedule A which reflects the revised Accepted Allocation and a revised Schedule B to the extent the Authority deems it appropriate.

4. Any suspension, reduction, termination, or other modification in whole or in part of the Accepted Allocation shall apply equally to the RNY Hydropower component and RNY Market Power component (if any) of the Customer's Accepted Allocation.

5. Unless otherwise provided in this Agreement or agreed to by the Authority in writing, a termination, reduction, or other modification in whole or in part of an Accepted Allocation shall result in a corresponding termination, reduction, or modification of the Customer's Awarded Allocation, and shall apply equally to the RNY Hydropower and RNY Market Power components of the Customer's Awarded Allocation.

ARTICLE XIV
MISCELLANEOUS

1. Choice of Law

Any claim, suit, action or any other proceeding in law or equity arising under, or in any way relating to this Agreement shall be governed by and construed in accordance with the laws of the State of New York to the extent that such laws are not inconsistent with the FERC License and rulings by the IJC and without regard to conflicts of law provisions.

2. Venue

Each Party consents to the exclusive jurisdiction and venue of any state court within or for Albany County, New York, with subject matter jurisdiction for adjudication of any claim, suit, action or any other proceeding in law or equity arising under, or in any way relating to this Agreement.

3. Previous Agreements, Communications and Representations Amendment; and Interpretation

This Agreement shall constitute the sole and complete agreement of the Parties hereto with respect to the sale of the Accepted Allocation and the other subject matter of this Agreement, and supersedes all previous communications between the Parties hereto, either oral or written, including price estimates, with reference to the sale of the Accepted Allocation, provided, however, that the Customer shall remain liable to the Authority for all duties, liabilities, charges and obligations due in accordance with any prior agreement. No modifications of this Agreement shall be binding upon the Parties hereto or either of them unless such modification is in writing and is signed by a duly authorized officer of each of them. No provision shall be construed against a Party on the basis that such Party drafted such provision.

4. Waiver

Any waiver at any time by either the Authority or the Customer of their rights with respect to a default or of any other matter arising out of this Agreement shall not be deemed to be a waiver with respect to any other default or matter. No waiver by either Party of any rights with respect to any matter arising in connection with this Agreement shall be effective unless made in writing and signed by the Party making the waiver.

5. Severability and Voidability

If any term or provision of this Agreement shall be invalidated, declared unlawful or ineffective in whole or in part by an order of the FERC or a court of competent jurisdiction, such order shall not invalidate the remaining terms or provisions hereof. Notwithstanding the preceding sentence, if any provision of this Agreement is rendered void or unenforceable or otherwise modified by a court or agency of competent jurisdiction, the entire Agreement shall, at the option of either Party and only in such circumstances in which such Party's interests are materially and adversely impacted by any such action, be rendered void and unenforceable by such affected Party.

ARTICLE XV
EXECUTION

To facilitate execution, this Agreement may be executed in as many counterparts as may be required, and it shall not be necessary that the signatures of, or on behalf of, each Party, or that the signatures of all persons required to bind any Party, appear on each counterpart; but it shall be sufficient that the signature of, or on behalf of, each Party, or that the signatures of the Persons required to bind any Party, appear on one or more of the counterparts. All counterparts shall collectively constitute a single agreement. It shall not be necessary in making proof of this Agreement to produce or account for more than a number of counterparts containing the respective signatures of, or on behalf of, all of the Parties hereto. The delivery of an executed counterpart of this Agreement by facsimile, email as a PDF file or other acceptable file format that appropriately captures the signature, or electronic signature, and shall be deemed to have the same legal effect as delivery of an original executed copy of this Agreement.

[SIGNATURES FOLLOW ON NEXT PAGE]

AGREED:

CUSTOMER

By: _____

Name (Print): _____

Title (Print): _____

Date: _____

AGREED:

POWER AUTHORITY OF THE STATE OF NEW YORK

By: _____

Name: Keith T. Hayes

Title: Vice President, Economic Development

Date: _____

SCHEDULE A - RNY POWER ALLOCATIONS

APPLICANT: CUSTOMER CONSOLIDATED FUNDING APP. No: XXXXXXXX

CUSTOMER: Check the appropriate box below to select one of the options indicated, and confirm your election by signing next to the election made. You may only check one box. If this Schedule A is applicable to an existing Accepted Allocation whose term has been extended, the original option is pre-checked and no selection is necessary.

Option 1 - Customer elects to purchase ALL of the RNY Market Power listed under Accepted Allocation from the Authority:

☐ Customer Signature: _____

Option 1 Allocation Information (will apply if ALL of the RNY Market Power that is part of the Awarded Allocation is purchased from the Authority)

Awarded Allocation (kW)	Accepted Allocation (kW)	Contract Demand* (kW)	Term of Accepted Allocation	Trustee Award Date	Facility
RNY Hydropower: RNY Market Power: Total:	RNY Hydropower: RNY Market Power: Total:		7 years (from the date of commencement of Electric Service)	Month Day, Year	Street, City, NY

OR

Option 2 - Customer elects to purchase NONE of the RNY Market Power listed under Accepted Allocation from the Authority:

☐ Customer Signature: _____

Option 2 Allocation Information (will apply if NONE of the RNY Market Power that is part of the Awarded Allocation is purchased from the Authority)

Awarded Allocation (kW)	Accepted Allocation (kW)	Contract Demand* (kW)	Term of Accepted Allocation	Trustee Award Date	Facility
RNY Hydropower: RNY Market Power: Total:	RNY Hydropower: RNY Market Power: 0 Total:		7 years (from the date of commencement of Electric Service)	Month Day, Year	Street, City, NY

*The value listed for the Contract Demand is subject to the Takedown Schedule, if any, attached to the Agreement as Schedule C.

SCHEDULE B

RNY POWER SUPPLEMENTAL COMMITMENTS

The provision of RNY Power to the Customer is in consideration of, among other things, the supplemental commitments made by the Customer as provided for in this Schedule B.

ARTICLE I
RNY POWER SUPPLEMENTAL COMMITMENTS

1. Employment

The Customer shall establish and maintain the employment level set forth in Appendix 1 of this Schedule B (the "Base Employment Level"). Unless otherwise provided for in Schedule B, such Base Employment Level shall be the total number of full-time positions held by: (a) individuals employed by the Customer at the Facility identified in Appendix 1 of this Schedule B; and (b) individuals who are contractors or are employed by contractors of the Customer and who are assigned to such Facility (collectively, "Base Level Employees"). The number of Base Level Employees shall not include individuals employed on a part-time basis (less than 35 hours per week); provided, however, that two individuals each working at least 20 hours but not more than 35 hours per week shall be counted as one Base Level Employee.

The Customer shall not establish or maintain the Base Employment Level by transfers of employees from previously held positions with the Customer or its affiliates located within New York State, except that the Base Employment Level may be filled by employees of the Customer laid off from other Customer facilities for bona fide economic or management reasons.

The Authority may consider a request to change the Base Employment Level based on a claim of increased productivity, increased efficiency, or adoption of new technologies or for other appropriate reasons as determined by the Authority. The Authority shall have the sole discretion to make any such change.

2. Capital Investment

The Customer shall make the scheduled capital investments provided in Appendix 2 to this Schedule B.

3. Power Utilization

For each month the Authority provides Electric Service to the Customer, the Customer shall utilize the entire Accepted Allocation, as represented by the Billing Demand (as such term is described in Service Tariff No. RNY-1), provided, however, that if only part of the Accepted Allocation is being utilized in accordance with Schedule C, the Customer shall utilize such part of the Allocation.

4. Energy Efficiency and Conservation Program

The Customer shall implement an energy efficiency and conservation program at the Facility through either: (a) enrollment of the Facility and participation in NYEM in accordance with a NYEM Agreement; or (b) a Physical Energy Audit of the Facility. Either option shall be at the Customer's own expense.

After the Effective Date, the Authority will transmit to the Customer a NYEM Agreement and an election form. The Customer shall elect to either: (a) enroll the Facility and participate in NYEM for a three-year term in accordance with the NYEM Agreement ("NYEM Participation"); or (b) perform a Physical Energy Audit of the Facility. The Customer shall make the election within sixty (60) days of its receipt of the Authority's communication.

If the Customer elects NYEM Participation, it shall execute and return the NYEM Agreement to the Authority with the election form, abide by the NYEM Agreement, and participate in NYEM at its own expense at the rate specified in the NYEM Agreement.

If the Customer elects to perform a Physical Energy Audit, it shall perform the Physical Energy Audit at least once during the term of the Accepted Allocation, but in any event not less than once every five years. The Authority may in its discretion waive the requirement for a Physical Energy Audit, or may agree to a limited physical energy audit of the Facility, where the Authority determines that the Physical Energy Audit is unnecessary based on the age of the Facility, energy efficiency and conservation improvements made at the Facility, the length of the Allocation, or other considerations the Authority determines to be relevant.

Energy efficiency audits and virtual energy audits (including via NYEM Participation) that have been performed at the facility prior to the Effective Date do not satisfy the requirements for an energy efficiency and conservation program under this Section I.4.

ARTICLE II
RECORDKEEPING, REPORTING AND FACILITY ACCESS

1. Employment

A record shall be kept monthly by the Customer, and provided on an annual basis for the period July 1 through June 30 (the "Reporting Period") to the Authority, of the total number of Base Level Employees who are employed at or assigned to the Customer's Facility identified in Appendix 1 of this Schedule B, as reported to the United States Department of Labor (or as reported in such other record as agreed upon by the Authority and the Customer). Such report shall specify the number of individuals who are employed by the Customer, who are contractors, and who are employed by contractors of the Customer, and shall be certified to be correct by an officer of the Customer, plant manager or such other person authorized by the Customer to prepare and file such report and shall be provided to the Authority on or before the last day of August immediately following the preceding Reporting Period.

2. Capital Investments

The Customer shall comply with the recordkeeping, recording and reporting requirements specified in Appendix 2 to this Schedule B.

3. Power Usage

The Customer shall keep monthly records of the maximum demand utilized each month for each Facility receiving an Accepted Allocation and provide copies and an explanation of such records to the Authority on an annual basis for the Reporting Period on or before the last day of August immediately following the preceding Reporting Period.

4. Energy Efficiency and Conservation Program

Upon the Authority's request, the Customer shall provide the Authority with: (a) a copy of the results of any Physical Energy Audit performed at the Facility (or, at the Authority's option, a report describing the results), performed pursuant to this Agreement; and (b) a description of any energy efficiency or conservation measures that the Customer has implemented at the Facility in connection with any Physical Energy Audit or as a result of NYEM Participation.

5. Facility Access and Information

Notwithstanding any other provision of the Agreement, the Customer shall provide the Authority with such access to the Facility, and such documentation, as the Authority deems necessary to determine the Customer's compliance with the Customer's Supplemental Commitments specified in this Schedule B.

The Customer shall provide information requested by the Authority or its designee in surveys, questionnaires and other information requests relating to energy efficiency and energy-related projects, programs and services.

In addition to any reports or other information required by this Agreement, the Authority or its designee shall have the right to examine and audit on reasonable advance written notice to the Customer all non-confidential written and electronic records and data in order to determine the Customer's compliance with the Customer's RNY Power Supplemental Commitments.

ARTICLE III
COMPLIANCE ACTION BY THE AUTHORITY

1. Employment Levels

If the annual monthly average number of employees is less than 90% of the Base Employment Level set forth in this Schedule B for the subject Reporting Period, the Authority may reduce the Contract Demand. The maximum amount of reduction will be determined by multiplying the Contract Demand by the quantity one minus the quotient of the average monthly employment during the subject Reporting Period divided by the Base Employment Level. The

Authority will round any such reduction to the nearest ten (10) kW. In the event of a reduction of the Contract Demand to zero, the Agreement shall automatically terminate.

2. Capital Investment Levels

The Authority may reduce the Contract Demand as provided in Appendix 2 to this Schedule B.

3. Power Utilization Levels

If the average of the Customer's six (6) highest Billing Demands (as such term is defined in Service Tariff No. RNY-1) is less than 90% of the Customer's Contract Demand in a Reporting Period, the Authority may reduce the Contract Demand. The maximum amount by which the Authority may reduce the Contract Demand shall be determined by multiplying the Contract Demand by the quantity one minus the quotient of the average of the six (6) highest Billing Demands for in such Reporting Period divided by the Contract Demand. Any such reduction shall be rounded to the nearest ten (10) kW. In the event of a reduction of the Contract Demand to zero, this Agreement shall automatically terminate.

4. Additional Compliance Actions

In addition to the Authority's other rights and remedies provided in this Agreement, Service Tariff RNY-1 and the Rules, the Authority may suspend Electric Service to the Customer if the Customer does not comply with any of the requirements in Section I.4 or Article II of this Schedule B.

5. Notice of Intent to Reduce Contract Demand

In the event that the Authority determines that the Contract Demand will be wholly or partially reduced pursuant to Sections III.1, III.2, or III.3 of this Schedule B, the Authority will provide the Customer with at least thirty (30) days prior written notice of such reduction, specifying the amount of the reduction of Contract Demand and the reason for the reduction. Before implementing a reduction, the Authority may consider the Customer's scheduled or unscheduled maintenance or Facility upgrading periods when such events temporarily reduce employment levels or electrical demand, as well as the business cycle.

SCHEDULE B – APPENDIX 1

BASE EMPLOYMENT LEVEL

In accordance with Article 1 of Schedule B, the Customer agrees to a Base Employment Level at the Customer's Facility indicated below on or before the date(s) specified:

Base Employment Level	Facility	Date(s)	Miscellaneous/Notes
	Street, City, NY		
	Street, City, NY		

CONSOLIDATED FUNDING APP. No: XXXXXXXX

SCHEDULE B – APPENDIX 2

CAPITAL INVESTMENT COMMITTMENTS

1. Annual Capital Investment Commitment (if applicable, as specified below)

a. The Customer agrees to make the following minimum capital investment in the Facility ("Aggregate CI Commitment") within five (5) years of the commencement of Electric Service under this Agreement:

Aggregate CI Commitment: $ _____

b. Each year, the Customer shall record the total amount of capital investment ("Annual CI Expenditures") made by the Customer at the Facility during the Reporting Period, which shall be provided to the Authority in a form specified by the Authority on or before the last day of August following the end of the most recent Reporting Period.

c. The Authority will calculate an aggregate amount of capital investment made by the Customer ("Aggregate CI Expenditures") at its Facility by summing the first five (5) years of Annual CI Expenditures as reported by the Customer, for the purpose of determining the Customer's compliance with its Aggregate CI Commitment. If the Customer's Aggregate CI Expenditures as determined by the Authority is less than 90% of its Aggregate CI Commitment, the Contract Demand may be reduced. The maximum amount by which the Authority may reduce the Contract Demand shall be determined by multiplying the Contract Demand by the quantity one minus the quotient of the Aggregate CI Expenditures divided by the Aggregate CI Commitment. Any such reduction shall be rounded to the nearest ten (10) kW. In the event of a reduction of the Contract Demand to zero, this Agreement shall automatically terminate.

2. **Expansion Project–Capital Investment Commitment** (if applicable, as specified below)

a. The Customer shall make a minimum capital investment of $_____ to construct, furnish and/or expand the Facility ("Expansion Project Capital Investment Commitment"). The Expansion Project Capital Investment Commitment is expected to consist of the following approximate expenditures on the items indicated:

Line Item 1 - $_____
Line Item 2 - $_____
Line Item 3 - $_____

Expansion Project Capital Investment Commitment: $ _____

The Expansion Project Capital Investment Commitment shall be made, and the Facility shall be completed and fully operational, no later than _____ (*i.e.*, within three (3) years of the date of the Authority's award of the Allocation). Upon request of the Customer, such date may be extended in the discretion of the Authority.

SCHEDULE C

TAKEDOWN SCHEDULE

N/A

CONSOLIDATED FUNDING APP. No: XXXXXXXX

SCHEDULE D

MONTHLY CLEAN ENERGY IMPLEMENTATION CHARGE

I. DEFINITIONS

When used with initial capitalization, whether singular or plural, the following terms, as used in this Schedule, shall have the meanings as set forth below. Capitalized terms not defined in this Schedule shall have the meaning ascribed to them elsewhere in the Agreement, in Service Tariff No. RNY-1, or in the Rules.

"Alternative Compliance Payment" means a form of payment of money by an LSE that is authorized by the State in law, regulation, or Regulatory Order as a mechanism for an LSE to satisfy an Annual LSE Obligation.

"Annual LSE Obligation" means the annual obligation of an LSE to supply a defined percentage proportion (or other applicable measure) of its retail load with supply derived from new eligible renewable resources through compliance measures that are authorized in law, regulation, or Regulatory Order for a State Energy Standard. With reference to the Zero Emission Credit Requirement, "Annual LSE Obligation" refers to an obligation of an LSE to purchase a specified number of ZECs representing the LSE's proportional share of ZECs purchased by NYSERDA based on the load served by the LSE in relation to the total load served by all LSE's in the New York Control Area.

"CES Order" means the Order issued by the Public Service Commission, entitled "Order Adopting a Clean Energy Standard, issued on August 1, 2016, in Case Nos. 15-E-0302 and 16-E-0270, and includes all subsequent orders amending, clarifying and/or implementing the CES Order or the CES.

"Clean Energy Compliance Measures" is a collective reference to Zero Emission Credit Requirement Compliance Measures, Renewable Energy Standard Compliance Measures, Offshore Wind Energy Standard Compliance Measures, and any other compliance measures that an LSE is authorized by law, regulation or Regulatory Order to undertake in order to meet an Annual LSE Obligation.

"Clean Energy Standard" or "CES" means the Clean Energy Standard adopted by the State, as may be amended from time to time.

"Credit" means a certificate or other claim to the environmental attributes associated with energy produced by or from qualifying resources that typically represents proof that one megawatt-hour (1 MWh, or 1000 kilowatt-hours) of qualifying electricity was generated and delivered to the power grid. A Credit includes but is not limited to a ZEC, REC and OREC.

"Load Serving Entity" has the meaning provided in the CES Order and generally refers a utility or other entity that supplies load (electricity) to a consumer of electricity.

"Monthly Clean Energy Implementation Charge" means the monthly charge to the Customer established in this Schedule D.

"NYSERDA" means the New York State Energy Research and Development Authority.

"Offshore Wind Energy Credit" or "OREC" refers to a qualifying Offshore Wind Energy Credit as authorized by the State in law, regulation, or Regulatory Order.

"Offshore Wind Energy Standard" means the Offshore Wind Energy Standard adopted by the State as may be amended from time to time.

"Offshore Wind Energy Standard Compliance Measures" means the purchase of ORECs from NYSERDA; the Authority's procurement of ORECs by Self-Supply; and any other compliance measures that an LSE is authorized by law, regulation, or Regulatory Order to undertake for the purpose of satisfying an Annual LSE Obligation for the Offshore Wind Energy Standard.

"Public Service Commission" or "PSC" means the New York State Public Service Commission.

"Regulatory Order" means an order issued by a regulatory agency or authority of the State of New York, and includes orders issued by the PSC. Regulatory Order includes, by way of example only, the CES Order and any other order of the PSC that establishes, supplements, modifies, or clarifies standards, requirements, obligations, or procedures for implementation of the State Energy Plan or a State Energy Standard, including the CES.

"Renewable Energy Credit" or "REC" refers to a qualifying renewable energy credit as authorized by the State in law, regulation, or Regulatory Order.

"Renewable Energy Standard" means the Renewable Energy Standard adopted by the State as may be amended from time to time.

"Renewable Energy Standard Compliance Measures" means the purchase of RECs from NYSERDA; the Authority's procurement of RECs by Self-Supply; Alternative Compliance Payments to NYSERDA; and any other compliance measures that an LSE is authorized by law, regulation, or Regulatory Order to undertake for the purpose of satisfying an Annual LSE Obligation for the Renewable Energy Standard.

"Self-Supplied Credit Charge" means a supplemental per-Credit charge or adder that the Authority adds to the cost of any Credit that it procures by Self-Supply for the purpose of: (1) enabling the Authority to recover administrative costs that it incurs in connection with the Self-Supply of Credits; and (2) managing risk in the cost of Credits over the term of any contract that serves as a source of Credits for Self-Supply, including but not limited to mitigating the extent of fluctuations in the cost of Credits that the Authority procures through Self-Supply.

"Self-Supplied Credit Cost" means the annual average per-Credit cost (including any applicable Self-Supplied Credit Charge) that the Authority establishes pursuant to Section II.3.b of the Schedule D for any Credit that it procures by Self-Supply for the purpose of complying with any Annual LSE Obligation applicable to a State Energy Standard.

"Self-Supply" means the Authority's procurement of Credits from a source other than NYSERDA.

"State" means the State of New York.

"State Energy Plan" means the 2015 New York State Energy Plan as amended from time to time.

"State Energy Standard" refers to any standard or requirement that is adopted by the State in law, regulation, or Regulatory Order for the purpose of implementing State energy and environmental goals or policies, including goals and policies set forth in the State Energy Plan, that applies to the Authority, or with which the Authority determines it will comply in implementing its business and/or power supply programs. For purposes of this Agreement, State Energy Standard includes the Clean Energy Standard, Renewable Energy Standard, Zero Emission Credit Requirement, Offshore Wind Energy Standard, and any other standard or requirement adopted by the State in law, regulation, or Regulatory Order that applies to the Authority, or with which the Authority determines it will comply, in implementing its business and/or power supply programs.

"Total Monthly RNY Load" has the meaning provided in Section II.3.c of this Schedule D.

"Total Monthly CE Compliance Costs" has the meaning provided in Section II.3.c of this Schedule D.

"Zero Emission Credit" or "ZEC" refers to a Zero Emission Credit as authorized by the State in law, regulation, or Regulatory Order.

"Zero Emission Credit Requirement Compliance Measures" means the purchase of ZECs from NYSERDA; and any other compliance measures that an LSE is authorized by law, regulation, or Regulatory Order to undertake for the purpose of satisfying an Annual LSE Obligation for the Zero Emission Credit Requirement.

"Zero Emission Credit Requirement" means the Zero Emission Credit Requirement adopted by the State as may be amended from time to time.

II. MONTHLY CLEAN ENERGY IMPLEMENTATION CHARGE

1. Notwithstanding any other provision of the Agreement, or any provision of Service Tariff No. RNY-1 or the Rules, the Customer shall be subject to a Monthly Clean Energy Implementation Charge as provided in this Schedule D. The Monthly Clean Energy Implementation Charge is in addition to all other charges, fees and assessments provided in the Agreement, Service Tariff No. RNY-1 and the Rules. By accepting Electric Service under the Agreement, the Customer agrees to pay the Monthly Clean Energy Implementation Charge.

2. The Monthly Clean Energy Implementation Charge is part of a compliance program ("Compliance Program") that the Authority has adopted for the purpose of administering the RNY Power program in a manner that is consistent with the State Energy Plan, the CES, and other applicable State Energy Standards. Pursuant to the Compliance Program, the Authority will support the preservation of at risk nuclear zero emission attributes, and support the development of renewable energy resources to serve its RNY Power program customers, through the implementation of various Clean Energy Compliance Measures that the Authority in its discretion determines are appropriate to enable the Authority to meet Annual LSE Obligations that have been established for each State Energy Standard that applies to the Authority, or with which the Authority determines it will comply in implementing its business and/or power supply programs. The purpose of the Monthly Clean Energy Implementation Charge is to enable the Authority to recover costs and other charges as described herein that the Authority incurs for implementing Clean Energy Compliance Measures.

3. The Monthly Clean Energy Implementation Charge will be determined and assessed as follows:

    a. The Authority will, each calendar year, implement such Clean Energy Compliance Measures as the Authority determines in its discretion to be appropriate to meet the Annual LSE Obligation established for each State Energy Standard with respect to the load that the Authority serves under the RNY Power program, including the Renewable Energy Standard, Zero Emission Credit Requirement and Offshore Wind Energy Standard. The specific Clean Energy Compliance Measures that the Authority determines to use, and the amount or extent of each Clean Energy Compliance Measure taken in any calendar year to meet each Annual LSE Obligation shall be within the Authority's sole discretion.

    b. The Authority will, for each calendar year, establish a Self-Supplied Credit Cost for any Credits that it procures through Self-Supply that it will use to meet the applicable Annual LSE Obligation for each State Energy Standard for the calendar year. The Authority may, in its discretion, for any quarter in any calendar year, revise any such Self-Supplied Credit Cost established pursuant to this Section II.3.b for the purpose of addressing unanticipated circumstances that impact or that the Authority reasonably believes could impact the Authority's costs and risk exposure regarding Self-Supply. Any Self-Supplied Credit Cost so revised shall apply prospectively.

    c. The Authority will, for each month of each calendar year in which it incurs costs for Clean Energy Compliance Measures, calculate the total costs that the Authority has incurred or estimates that it will incur for implementing the Clean Energy Compliance Measures ("Total Monthly CE Compliance Costs") for the purpose of meeting each Annual LSE Obligation for the total RNY Power kilowatt-hour load for such month ("Total Monthly RNY Load"). The Authority may calculate Total Monthly CE Compliance Costs on the basis of forecasts of the Total Monthly RNY Load that the Authority expects to serve for the month, or on a lagged basis based on the actual Total Monthly RNY Load that the Authority served for the month.

d. Each month, the Authority will calculate a Monthly Clean Energy Implementation Charge applicable to the Customer. The Monthly Clean Energy Implementation Charge will represent the Customer's share of the Total Monthly CE Compliance Costs assigned to the Total Monthly RNY Load assessed as the proportion of the Customer's total kilowatt-hour load served by the Authority for such month to the Total Monthly RNY Load served by the Authority for such month.

4. The Authority may, in its discretion, include the Monthly Clean Energy Implementation Charge as part of the monthly bills for Electric Service as provided for in the Agreement, or bill the Customer for the Monthly Clean Energy Implementation Charge pursuant to another Authority-established procedure. In any case, the bill will indicate the amount of the Monthly Clean Energy Implementation Charge that is attributable to compliance with each Annual LSE Obligation.

5. The Authority will, at the conclusion of each calendar year in which it assesses a Monthly Clean Energy Implementation Charge, conduct a reconciliation process based on the actual costs it incurred for Clean Energy Compliance Measures taken (other than Credits procured through Self-Supply), and the actual load served for the year, compared with cost or load estimates or forecasts, if any, that the Authority used to calculate the Monthly Clean Energy Implementation Charge during the year. The Authority will issue a credit, or an adjusted final charge for the year, as appropriate, based on the results of such reconciliation process. Any such final charge shall be payable within the time frame applicable to the Authority's bills for Electric Service under this Agreement or as provided for in any other procedure established by the Authority pursuant to Section II.4 of this Schedule D.

6. Notwithstanding the provisions of Section II.3 of this Schedule D, if Electric Service for the Allocation is commenced after the Authority has implemented Clean Energy Compliance Measures for the year in which such Electric Service for the Customer is commenced, and as a result the Customer's load cannot be accounted for in such Clean Energy Compliance Measures, the Authority may in its discretion implement one or more separate Clean Energy Compliance Measures with respect to the Customer's load for the calendar year in order to meet the Annual LSE Obligation for Customer's load for the year, and bill the Customer for the costs associated with such separate Clean Energy Compliance Measures.

7. Nothing in this Schedule D shall limit or otherwise affect the Authority's right to charge or collect from the Customer, any rate, charge, fee, assessment, or tax provided for under any other provision of the Agreement, or any provision of Service Tariff No. RNY-1 or the Rules.

III. ALTERNATIVE CES COMPLIANCE PROGRAM

Nothing in this Schedule D shall be construed as preventing the Parties from entering into other agreements for alternative arrangements to enable the Authority to meet any Annual LSE Obligation with respect to the Customer's allocation, including alternative compliance

programs and cost allocation mechanisms, in lieu of the Monthly Clean Energy Implementation Charge established in this Schedule D.

EXHIBIT 1

[This copy of Service Tariff No. RNY-1 as of the date of execution of the Agreement is provided for information purposes only, and Service Tariff No. RNY-1 is subject to revision by the Authority from time-to-time]

Procurement (Services) and Other Contracts – Awards
(For Description of Contracts See "Discussion")

Plant Site	Company Contract #	Start of Contract	Description of Contract	Closing Date	Award Basis[1] Contract Type[2]	Compensation Limit	Amount Expended To Date	Expected Expenditures For Life Of Contract
COMMERICAL OPERATIONS – BUSINESS DEVELOPMENT	**Q18-6517JGM; 6 Awards** **1. AECOM USA, INC.** New York, NY **2. BURNS & MCDONNELL ENGINEERING COMPANY, INC.** Kansas City, MO **3. THE LOUIS BERGER GROUP (DOMESTIC), INC.** Morristown, NJ **4. SNC LTD.** Rochester, NY **5. TETRA TECH, INC.** Pittsburg, PA **6. TRC ENGINEERS, INC.** Windsor, CT	03/26/19 (on or about)	Provide consulting services in developing, licensing, permitting and implementing compliance both during and after construction	03/25/24	B/P	*Note: represents total aggregate value for up to 5-year term		**$9.5 million***
HUMAN RESOURCES & SHARED SERVICES - BENEFITS	**BCHR US ACQUISITIONS, INC. dba BUCK GLOBAL LLC** New York, NY **(4600003593)**	12/16/18	Provides consulting services for NYPA and NYS Canal Corporation employee benefit programs	12/15/23	B/P	$20,000 *Note: represents total for up to 5-year term including an interim value of $20,000. For NYPA $1,266,367 and for NYS Canal Corporation $277,983.		**$1.5 million***
UTILITY OPERATIONS – NIA	**NATIONAL VACUUM ENVIRONMENTAL SERVICES CORP.** Niagara Falls, NY **(N19-20133253GJ)**	4/1/19	Provide environmental cleaning services for various systems throughout the WNY NYPA facilities including Niagara Power Project	03/31/23	B/S	*Note: represents total for up to 4-year term		**$750,000***

♦ M / WBE: New York State-certified Minority / Women-owned Business Enterprise (indicated by the ♦ symbol after the Company Name)
1 Award Basis: B= Competitive Bid; S= Sole Source; Si= Single Source; C= Competitive Search
2 Contract Type: P= Personal Service; S= (Non-Personal) Service; C= Construction; E= Equipment; N= Non-Procurement; A= Architectural & Engineering Service; L= Legal Service

Procurement (Services) and Other Contracts – Awards
(For Description of Contracts See "Discussion")

EXHIBIT "A"
March 26, 2019

Plant Site	Company Contract #	Start of Contract	Description of Contract	Closing Date	Award Basis[1] Contract Type[2]	Compensation Limit	Amount Expended To Date	Expected Expenditures For Life Of Contract
UTILITY OPERATIONS NIA	**ANDERSON MEDICAL PC dba EMERGENCY ONE ♦** Kingston, NY **(N19-20133099GJ)**	05/01/19	Provide on-site Occupational Health Services for employees at Niagara, STL and BG Power Projects	04/30/21	B/S	*Note: represents total for up to 2-year term		**$348,600***
UTILITY OPERATIONS – PROJECT MANAGEMENT	**CROWN CASTLE INTERNATIONAL CORP. dba CROWN CASTLE USA, INC.** Houston, TX **(Q18-6458DK)**	03/26/19 (on or about)	Support the Smart Generation & Transmission ("SG&T") Communication Backbone Program Dark Fiber	03/25/22	B/C	*Note: represents total for up to 3-year term Plus an additional 20-year Lease and Maintenance Agreements		**$2.2 million***
UTILITY OPERATIONS – PROJECT MANAGEMENT	**Q18-6520DKT; 3 Awards** **1. GOPOWER, INC.** Medford, MA **2. HAUGLAND ENERGY GROUP LLC** Plainview, NY **3. UNDERGROUND SYSTEMS, INC.** Bethel, CT	03/26/19 (on or about)	Provide emergency repair and restoration services for the equipment associated with the Authority's underground transmission facilities	03/25/24	B/C	*Note: represents total aggregate value for up to 5-year term		**$7.5 million***
UTILITY OPERATIONS – SENY	**WESTROCK MECHANICAL CORP.** Tallman, NY **(A18-001072DW)**	04/01/19	Provide HVAC services covering SENY region	03/31/24	B/S	*Note: represents total for up to 5-year term		**$5 million***
UTILITY OPERATIONS – SENY	**NORTH HILLS OFFICE SERVICES, INC.** Woodbury, NY **(A19-001107DW)**	04/01/19	Provide housekeeping and Janitorial Services for the Richard M. Flynn and Brentwood Power Plants	03/31/24	B/S	*Note: represents total for up to 5-year term		**$250,000***

♦ M / WBE: New York State-certified Minority / Women-owned Business Enterprise (indicated by the ♦ symbol after the Company Name)
1 Award Basis: B= Competitive Bid; S= Sole Source; Si= Single Source; C= Competitive Search
2 Contract Type: P= Personal Service; S= (Non-Personal) Service; C= Construction; E= Equipment; N= Non-Procurement; A= Architectural & Engineering Service; L= Legal Service

Procurement (Services) and Other Contracts – Awards
(For Description of Contracts See "Discussion")

EXHIBIT "A"
March 26, 2019

Plant Site	Company Contract #	Start of Contract	Description of Contract	Closing Date	Award Basis[1] Contract Type[2]	Compensation Limit	Amount Expended To Date	Expected Expenditures For Life Of Contract
UTILITY OPERATIONS – SENY	**UNIVERSAL PLANT SERVICES OF CHICAGO, INC.** Deer Park, TX **(Q18-6466SR)**	03/26/19 (on or about)	Provide gas compressor maintenance at the SENY Power Plant locations	03/25/24	B/S	*Note: represents total for up to 5-year term		**$5 million***
UTILITY OPERATIONS – STL	**GOMEZ & SULLIVAN ENGINEERS DPC** Utica, NY **(Q19-6615JGM)**	03/26/19 (on or about)	Provide FERC DAM Safety Inspection for the St. Lawrence-FDR Power Project	03/25/24	B/P	*Note: represents total for up to 5-year term		**$429,165***
UTILITY OPERATIONS – TECHNICAL COMPLIANCE	**Q18-6549JGM; 2 Awards** **1. ASCENTRA LLC** Vienna, VA **2. TETRA TECH, INC.** Pittsburg, PA	03/26/19 (on or about)	Provide services for the emergency management department to execute the the drill and exercise program	03/25/24	B/P	*Note: represents total aggregate value for up to 5-year term		**$7.5 million***
UTILITY OPERATIONS – TECHNICAL COMPLIANCE	**DELOITTE CONSULTING LLP** Hermitage, TX **(4500305455)**	02/04/19	Provide support in reviewing and enhancing processes for supply chain risk management to address the NERC Cyber Security Supply Chain Management Risk Standard	08/03/20	B/P	$250,000 *Note: represents total for up to 18-month term including an interim value of $250,000		**$1.6 million***

♦ M / WBE: **New York State-certified Minority / Women-owned Business Enterprise (indicated by the ♦ symbol after the Company Name)**
1 Award Basis: **B= Competitive Bid; S= Sole Source; Si= Single Source; C= Competitive Search**
2 Contract Type: **P= Personal Service; S= (Non-Personal) Service; C= Construction; E= Equipment; N= Non-Procurement; A= Architectural & Engineering Service; L= Legal Service**

Procurement (Services) Contracts – Extensions and/or Additional Funding
(For Description of Contracts See "Discussion")

Plant Site/ Bus. Unit	Company Contract #	Start of Contract	Description of Contract	Closing Date	Award Basis[1] Contract Type[2]	Compensation Limit	Amount Expended To Date	Authorized Expenditures For Life Of Contract
COMMERCIAL OPERATIONS - BUSINESS AND MARKET DEVELOPMENT	**Q15-5865LW; 7 awards:**	08/01/15	Provide for consulting services in support of Program Strategy and Development ("PS&D") initiatives	07/31/20	B/P			**$9.9 million***
	1. BURO HAPPOLD CONSULTING ENGINEERS PC New York, NY **(PO# 4600003064)**						$2,383,852	
	2. FIREFLY ENERGY CONSULTING, LLC ♦ Dallas, TX **(PO# 4600003063)**						$0.00	
	3. ICF RESOURCES LLC Fairfax, VA **(PO# 4600003066)**						$895,925	
	4. KEMA, INC. Katy, TX **(PO# 4600003065)**						$0.00	
	5. NAVIGANT CON-SULTING, INC. New York, NY **(PO# 4600003067)**						$1,066,741	
	6. NEXANT, INC. San Francisco, CA **(PO# 4600003068)**						$0.00	
	7. OPTIMAL ENERGY, INC. Hinesburg, VT **(PO# 4600003061)**						$94,742	

*Note: represents aggregate total for up to 5-year term including additional funding request of $4.9 million, total contract value $9.9 million

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Procurement (Services) Contracts – Extensions and/or Additional Funding
(For Description of Contracts See "Discussion")

EXHIBIT "B"
March 26, 2019

Plant Site/ Bus. Unit	Company Contract #	Start of Contract	Description of Contract	Closing Date	Award Basis[1] Contract Type[2]	Compensation Limit	Amount Expended To Date	Authorized Expenditures For Life Of Contract
CORPORATE AFFAIRS – PUBLIC & REGULATORY AFFAIRS	**M.J. BRADLEY & ASSOSCIATES LLC** Concord, MA **(PO# 4500297437)**	05/10/18	Provide support to the development of Sustainability and Environmental Justice plans	05/09/21	Si/P	*Note: represents total for 3-year term, and includes $400,000 additional funding request and 2-year extension request	$159,789	**$640,000***
LAW - LEGAL SERVICES	**FOX ROTHSCHILD LLP** Philadelphia, PA **(PO#4500276754)**	08/29/16	Provide legal representation for the Authority in connection with existing construction litigation	08/28/20	Si/P	$500,000 *Note: represents total for 4-year term, and includes $3.5M additional funding plus $500,000 requested on an interim basis	$5,055,679	**$8.6 million***
LICENSING - STL	**J.E. SHEEHAN CONTRACTING CORPORATION** Potsdam, NY **(PO#4500297033)**	04/30/18	Provide time extension for the final phase of seeding and mulching to cultivate the lawns restoration	12/31/19	B/C	*Note: represents total for 1-year and 8-month term, and includes an 8-month extension and no additional funding	$0.00	**$422,414***
UTILITY OPERATIONS - ENVIRONMENTAL	**ULTRA ELECTRONICS OCEAN SYSTEMS, INC.** Braintree, MA **(PO#4500298425)**	06/13/18	Provide yearly installation, calibration, storage, maintenance and repair services for the fish deterrent systems at the Crescent and Vischer Ferry projects	06/12/22	Si/P	*Note: represents total for 4-year term, and includes $350,025 additional funding and 3-year extension request	$100,045	**$491,772***
UTILITY OPERATIONS - PROJECT MANAGEMENT	**MINIMAX FIRE SOLUTIONS, INC.** Livermore, CA **(PO#4500296984)**	04/26/18	Provide time extension which will ensure the additional changes to the new fire suppression system for Niagara RMPP Unit #13	04/25/20	B/C	*Note: represents total for 2-year term, and includes $175,000 additional funding and 1-year extension request	$404,174	**$594,961***

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2 Contract Type: P= Personal Service; S= (Non-Personal) Service; C= Construction; E= Equipment; N= Non-Procurement; L= Legal Service

Procurement (Services) Contracts – Extensions and/or Additional Funding
(For Description of Contracts See "Discussion")

Plant Site/ Bus. Unit	Company Contract #	Start of Contract	Description of Contract	Closing Date	Award Basis[1] Contract Type[2]	Compensation Limit	Amount Expended To Date	Authorized Expenditures For Life Of Contract
UTILITY OPERATIONS - PROJECT MANAGEMENT	**FERGUSON ELECTRIC CONSTRUCTION CO., INC.** Buffalo, NY **(PO#4600002500)**	03/27/12	Provide time extension to complete the upgrades to the ISO Phase Bus & Phase Reversal Switch Actuators for ten unit upgrades	09/30/21	B/C	*Note: represents total for 10-year term, and includes no additional funding. Extension for Ferguson until September 30, 2021 and overall project completion December 2022	$1,579,385	**$1.6 million***
UTILITY OPERATIONS - PROJECT MANAGEMENT	**NORTHLINE VENTURES, INC. dba NORTHLINE UTILITIES LLC** Au Sable Forks, NY **(PO#4500296215)**	04/08/18	Provide for the continuation of construction services for the installation of OPGW on the PV20 transmission line	04/07/20	B/C	*Note: represents total for 2-year term, and includes no additional funding and 1-year extension	$1,360,347	**$2.6 million***
UTILITY OPERATIONS - PROJECT MANAGEMENT	**NORTHLINE VENTURES, INC. dba NORTHLINE UTILITIES LLC** Au Sable Forks, NY **(PO#4500296752)**	04/23/18	Provide for the continuation of configuration and tagging services	10/21/19	B/C	***Note: represents total for 18-month term, and includes no additional funding and 6-month extension	$3,028,096	**$4 million***

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2 Contract Type: P= Personal Service; S= (Non-Personal) Service; C= Construction; E= Equipment; N= Non-Procurement; L= Legal Service

NEW YORK POWER AUTHORITY

Financial Report
December 31, 2018 and 2017

NEW YORK POWER AUTHORITY
Financial Report
December 31, 2018 and 2017

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Management Report

Management is responsible for the preparation, integrity and objectivity of the consolidated financial statements of the Authority, as well as all other information contained in the Annual Report. The consolidated financial statements have been prepared in conformity with U.S. generally accepted accounting principles (U.S.GAAP) and, in some cases, reflect amounts based on the best estimates and judgments of management, giving due consideration to materiality. Financial information contained in the Annual Report is consistent with the financial statements.

The Authority maintains a system of internal controls to provide reasonable assurance that transactions are executed in accordance with management's authorization, that financial statements are prepared in accordance with U.S. generally accepted accounting principles and that the assets of the Authority are properly safeguarded. The system of internal controls is documented, evaluated and tested on a continuing basis. No internal control system can provide absolute assurance that errors and irregularities will not occur due to the inherent limitations of the effectiveness of internal controls; however, management strives to maintain a balance, recognizing that the cost of such system should not exceed the benefits derived.

The Authority maintains an internal auditing program to independently assess the effectiveness of internal controls and to report findings and recommend possible improvements to management. This program includes a comprehensive assessment of internal controls to ensure that the system is functioning as intended. Additionally, as part of its audit of the Authority's consolidated financial statements, KPMG LLP, the Authority's independent auditors, considers internal controls over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal controls over financial reporting. Management has considered the recommendations of its internal auditors, the Office of the State Comptroller (OSC), and the independent auditors concerning the system of internal controls and has taken actions that it believed to be cost-effective in the circumstances to respond appropriately to these recommendations. Based on its structure and related processes, management believes that, as of December 31, 2018, the Authority's system of internal controls provides reasonable assurance as to the integrity and reliability of the financial statements, the protection of assets from unauthorized use or disposition and the prevention and detection of fraudulent financial reporting.

The members of the Authority's Board of Trustees (the Authority's Trustees), appointed by the Governor, by and with the advice and consent of the Senate, are not employees of the Authority. The Authority's Trustees' Audit Committee meets with the Authority's management, its Sr. Vice President of Internal Audit and its independent auditors periodically, throughout the year, to discuss internal controls and accounting matters, the Authority's financial statements, the scope and results of the audit by the independent auditors and the periodic audits by the OSC, and the audit programs of the Authority's internal auditing department. The independent auditors, the Sr. Vice President of Internal Audit and the Vice President & Chief Ethics and Compliance Officer have direct access to the Audit Committee.



Robert F. Lurie
Executive Vice President and Chief Financial Officer

March 26, 2019

Overview of the Consolidated Financial Statements

The New York Power Authority (the "Power Authority") is considered a special-purpose government entity engaged in business-type activities and follows financial reporting for enterprise funds. Effective January 1, 2017, the New York State Canal Corporation (the "Canal Corporation") became a subsidiary of the Power Authority, and the Power Authority assumed certain powers and duties relating to the Canal System (as defined below) to be exercised through the Canal Corporation. The Canal Corporation is responsible for a 524-mile canal system consisting of the Erie, Champlain, Oswego, and Cayuga-Seneca canals (the "Canal System"). The Power Authority and its subsidiary (collectively "the Authority") follow financial reporting for enterprise funds. The consolidated financial statements of the Authority are prepared in accordance with U.S. generally accepted accounting principles (U.S. GAAP) as prescribed by the Governmental Accounting Standards Board (GASB). Under the criteria set forth in GASB Statement No. 14, *The Financial Reporting Entity*, as amended by Governmental Accounting Standard (GAS) No. 39, *Determining Whether Certain Organizations Are Component Units* and GAS No. 61, *The Financial Reporting Entity: Omnibus--an amendment of GASB Statements No. 14 and No. 34*, the Authority considers its relationship to the State to be that of a related organization. The Power Authority and its subsidiary the Canal Corporation are referred to collectively as the "Authority" in the consolidated financial statements, except where noted.

This consolidated report consists of three parts: management's discussion and analysis, the basic consolidated financial statements, and the notes to the consolidated financial statements.

The consolidated financial statements provide summary information about the Authority's overall financial condition. The notes provide explanation and more details about the contents of the consolidated financial statements.

Forward Looking Statements

The statements in this management's discussion and analysis (MD&A) that are not purely historical facts are forward-looking statements based on current expectations of future events. Such forward-looking statements are necessarily based on various assumptions and estimates and are inherently subject to various risks and uncertainties, including, but not limited to, risks and uncertainties relating to the possible invalidity of the underlying assumptions and estimates and possible changes to or development in various important factors. Accordingly, actual results may vary from those we presently expect and such variations may be material. We therefore caution against placing undue reliance on the forward-looking statements contained in this MD&A. All forward-looking statements included in this MD&A are made only as of the date of this MD&A and we assume no obligation to update any such forward-looking statements as a result of new information, future events or other factors.

Summary of Revenues, Expenses and Changes in Net Position

The following is a summary of the Authority's financial information for 2018, 2017, and 2016:

	2018	2017	2016	2018 vs. 2017 favorable (unfavorable)	2017 vs. 2016 favorable (unfavorable)
	(In millions, except percentages)				
Operating revenues	$ 2,689	$ 2,573	$ 2,421	5%	6%
Operating expenses:					
Purchased power	710	557	514	(27)	(8)
Fuel oil & gas	189	165	152	(15)	(9)
Wheeling	654	618	609	(6)	(1)
Operations and maintenance	679	680	619	—	(10)
Depreciation	235	242	231	3	(5)
Impairment loss	—	73	—	100	(100)
Total operating expenses	2,467	2,335	2,125	(6)	(10)
Operating income	222	238	296	(7)	(20)
Nonoperating revenues	23	29	25	(21)	16
Nonoperating expenses	143	148	299	3	51
Net income and change in net position	102	119	22	(14)	441
Net position – beginning, as restated	4,632	4,620	4,059		
Net position – ending	$ 4,734	$ 4,739	$ 4,081		

The following summarizes the Authority's consolidated financial performance for the years 2018 and 2017:

The Authority had net income of $102 million for the year ended December 31, 2018 compared to $119 million in 2017, a decrease of $17 million. The decrease in net income was primarily due to lower operating income of $16 million, lower non-operating revenues of $6 million, partially offset by lower non-operating expenses of $5 million. Operating expenses were higher in 2018, primarily due to higher purchased power costs. Operating income decreased by $16 million compared to last year primarily due to lower margin on sales of $97 million, partially offset by the absence of an impairment loss. The operations and maintenance expenses were flat compared to 2017.

The change in net position was attributable to the positive 2018 net income of $102 million and a ($107) million adjustment to the beginning net position as a result of the Authority's adoption of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions.* See Note 2 "Summary of Significant Accounting Policies – New Accounting Pronouncements" and Note 11 "Postemployment Benefits Other Than Pensions, Deferred Compensation and Savings" of the notes to the consolidated financial statements.

The Authority had net income of $119 million for the year ended December 31, 2017 compared to $22 million in 2016, an increase of $97 million. The increase in net income was primarily due to lower nonoperating expenses

of $151 million and higher non-operating revenues of $4 million, partially offset by lower operating income of $58 million. Non-operating expenses were lower in 2017, primarily due to expenditures in 2016 for contributions to New York State and for payments of Canal Corporation related expenses under a reimbursement agreement with the New York State Thruway Authority prior to the transfer of the Canal Corporation to the Power Authority. Operating income decreased in 2017 by $58 million compared to 2016 primarily due to higher operating and maintenance expenses of $61 million, higher depreciation of $11 million and an impairment loss of $73 million, partially offset by a higher margin on sales of $86 million. The higher operations and maintenance expenses were primarily attributable to the inclusion of the Canal Corporation related expenses incurred in 2017. The 2017 impairment loss is related to the replacement of certain combustion turbine equipment with technically superior upgraded components.

The change in net position was attributable to the positive 2017 net income of $119 million. The Authority's 2017 beginning net position was adjusted by $539 million to reflect the transfer of the Canal Corporation to the Power Authority.

Operating Revenues

Operating revenues of $2,689 million in 2018 were $116 million, or 5%, higher than the $2,573 million in 2017, primarily due to higher market-based energy sales resulting from higher hydro production and the pass-through of higher purchased power costs to customers.

Purchased Power and Fuel

Purchased power costs increased by 27% in 2018 to $710 million from $557 million in 2017, primarily due to both higher prices and volume. Fuel costs were $24 million (15%) higher during 2018, primarily due to higher fuel prices ($28 million) offset by lower generation volume ($4 million).

Operations and Maintenance (O&M)

O&M expenses were relatively unchanged year over year as higher maintenance repairs and plant outage costs were offset by lower pension and OPEB expenses.

Nonoperating Revenues

For 2018, nonoperating revenues decreased by $6 million, or 21%, to $23 million from $29 million in 2017, primarily due to the absence of one-time payment of $8 million, received from Entergy in January 2017, related to the transfer of the nuclear decommissioning fund to Entergy, partially offset by favorable mark-to-market gain on the Authority's investment portfolio.

Nonoperating Expenses

For 2018, nonoperating expenses decreased by $5 million, or 3%, primarily attributable to capitalization of interest related to higher construction work in progress.

Cash Flows

Net cash flows provided by operating activities decreased by $149 million in 2018 compared to 2017, due to the timing of payments and receipts.

Net Generation

Net generation was 30.1 million megawatt-hours (MWh) in 2018 compared to 29.9 million MWh in 2017. Net generation from the Niagara and St. Lawrence hydroelectric plants in 2018 (24.1 million MWh) was 1% higher than 2017 (23.8 million MWh) due to continued higher water levels on Lakes Erie and Ontario resulting in higher water flow to the Niagara and St. Lawrence hydroelectric plants. For 2018, net hydro generation was approximately 119% of long-term average and above 2017, which was 118%. Combined net generation of the fossil fuel plants for 2018 was 6.0 million MWh, or 2% lower than 2017 (6.1 million MWh).

Summary of Consolidated Statements of Net Position

The following is a summary of the Authority's consolidated statements of net position for 2018, 2017, and 2016:

	2018	2017	2016	2018 vs. 2017	2017 vs. 2016
	(In millions, except percentages)				
Current assets	$ 1,434	$ 1,580	$ 3,082	(9) %	(49) %
Capital assets	5,519	5,442	4,825	1	13
Other noncurrent assets	1,798	1,638	1,529	10	7
Deferred outflows of resources	137	66	107	108	(38)
Total assets and deferred outflows	$ 8,888	$ 8,726	$ 9,543	2	(9)
Current liabilities	$ 1,051	$ 984	$ 2,439	7	(60)
Noncurrent liabilities	2,631	2,655	2,668	(1)	—
Total liabilities	3,682	3,639	5,107	1	(29)
Deferred inflows of resources	472	348	355	36	(2)
Net position	4,734	4,739	4,081	0	16
Total liabilities, deferred inflows and net position	$ 8,888	$ 8,726	$ 9,543	2	(9)

The following summarizes the Authority's consolidated statements of net position variances for the years 2018 and 2017:

In 2018, current assets decreased by $146 million (9%) to $1,434 million due to drawdown of investments for debt service and timing of payments and receipts. Capital assets increased by $77 million (1%) to $5,519 million, compared to last year, as a result of continuing investments in generating assets at existing facilities and transmission upgrades, necessary to maintain reliability. Other noncurrent assets, increased by $160 million (10%), primarily due to an increase in energy efficiency program work in progress costs. Deferred outflows increased by $71 million primarily due to the deferral of OPEB resources, as a result of the Authority adopting GASB Statement No.75, in 2018, and due to changes in deferral of pension resources. Current liabilities increased by $67 million (7%) to $1,051 million compared to last year. This increase is attributable to the increase in long-term debt due within one year resulting from scheduled maturities. Noncurrent liabilities, were lower by $24 million (1%), primarily due to the decrease in long-term debt resulting from the scheduled maturities, and payments on capital lease obligations, partially offset by the increase in the pension and OPEB liability. Deferred inflows increased by $124 million (36%) compared to last year, due to the changes in the deferral of OPEB resources, as a result of the Authority adopting GASB Statement No. 75, in 2018, and due to the in changes in the

deferral of pension resources. The changes in net position for 2018 and 2017 are discussed in the summary of revenues, expenses and changes in net position in this Management's Discussion and Analysis.

In 2017, current assets and current liabilities decreased mainly due to the transfer of the Decommissioning Trust Fund to Entergy on January 30, 2017 (see note12(c) "Nuclear Plant Divestiture and Related Matters –Nuclear Plant Decommissioning" of notes to the consolidated financial statements). Excluding Decommissioning Trust Fund investment of $1,504 million in 2016, current assets were relatively flat year over year. Capital assets increased by $617 million (13%) to $5,442 million, compared to last year, primarily due to the transfer of Canal Corporation to the Power Authority effective January 1, 2017. Other noncurrent assets, increased by $109 million (7%). Deferred outflows decreased by $41 million due to changes in deferral of pension resources. Current liabilities, excluding the Decommissioning Trust Fund investment of $1,504 million in 2016, increased by $49 million (5%), to $984 million compared to last year. This increase is attributable to higher accrued liabilities. Noncurrent liabilities, were relatively flat year over year. Deferred inflows decreased by $7 million (2%) compared to last year due to changes in fair value and settlements of derivative instruments, $17 million increase in the costs of removal obligation and a decrease in the deferral of pension related resource. The changes in net position for 2017 and 2016 are discussed in the summary of revenues, expenses and changes in net position in this Management's Discussion and Analysis.

Capital Asset and Long-Term Debt Activity

The Authority currently estimates that it will expend approximately $2.5 billion for various capital improvements over the five-year period 2019-2023. The Authority anticipates that these expenditures will be funded using existing construction funds, internally generated funds and additional borrowings. Such additional borrowings are expected to be accomplished through the issuance of commercial paper notes and/or the issuance of long-term fixed rate debt.

Projected capital requirements during this period include (in millions):

Ma1 & Ma2 Transmission Line Upgrade	$	471
Transmission Life Extension & Modernization Projects		179
Strategic EV Charging Stations Installs		145
Life Extension & Modernization (RMNPP)		144
Lewiston Pump Gener. Plant Lem		141
Y-49 LEM Sound Cable		141
Replacement of Superstructure Bridges (RMNPP)		133
Transmission Leak detection system upgrade LEM		130
Communications Backbone		101
IT Initiatives		147
Sensor Deployment		82
Zone K Battery Storage Facility (Zone D&K)		61
Flynn Outage		24
Life Extension & Modernization LEM (WPO)		20
Garage - Centroplex Upgrade (WPO)		19
Fire Detection System (Nia)		15
R-22 Inlet Chiller System Replacement		15
Vistor Center - Utica (CEC)		15
Rotor Modification Stress Redistribution		14
Spare Rotor (St. Lawrence)		13
Asset Performance Management		11
Transmission Power Flow Control		10
Hatch Cover Deck Surface Upgrade		10
Canal Corporation		215
All Other (Projects Below $9.0 Million)		250
	$	2,506

In addition, the Authority's capital plan includes the provision of approximately $1.4 billion in financing for Energy Services and Technology projects to be undertaken by the Authority's governmental customers and other public entities in the State. It should also be noted that due to projects currently under review as well as energy initiatives announced in the Governor's State of the State address, there is a potential for significant increases in the capital expenditures indicated in the table above. Such additional capital expenditures would be subject to evaluation and Trustee approval.

The Authority is moving forward with its plans to replace a major section of the Moses Adirondack Line, one of the Authority's backbone transmission facilities. The replacement project covers 78 miles of 230 kV transmission line from Massena to the town of Croghan in Lewis County. In July 2017, the Authority received authorization under the New York Independent System Operator (NYISO) tariff to include the costs of this replacement project in its NYPA Transmission Adjustment Charge mechanism for cost recovery of the Authority's transmission system costs, which means that the costs will be allocated to all ratepayers in the State. The project includes the replacement of obsolete wood pole structures with higher, steel pole structures, as well as replacement of failing conductor with new conductor and insulation. The line will operate at its current 230 kV level, but the conductor and insulation design will accommodate future 345 kV operation. The Authority anticipates that the Moses Adirondack line will support the transmission of growing levels of renewable generation located in upstate New York and Canada, such as wind and hydroelectricity, and assist in meeting the State's renewable energy goals. The rebuilt line is also expected to enhance grid reliability by supporting the NYISO's black start plan. The Authority plans to file its application for Article VII approval with the New York Public Service Commission (NYPSC) in the first quarter of 2018. The Authority estimates a project cost of $484 million. Construction is expected to begin in 2019 and take three years.

In 2012, the Authority's Trustees approved a $726 million Transmission Life Extension and Modernization Program (Transmission LEM Program) on the Authority's Transmission system through 2025. As of December 31, 2018, the Authority has spent approximately $258 million. The Transmission LEM Program encompasses transmission assets in the Central, Northern and Western regions of New York and will include work to be done such as upgrades, refurbishments and replacements associated with switchyards and substations, transmission line structures or towers and associated hardware and replacement of the submarine cable on the PV-20 line. Reinvestment in this strategic component of the Authority's overall mission supports the repair, upgrade and/or expansion of the transmission infrastructure. The Authority intends to finance the Transmission LEM Program with internal funds and proceeds from debt obligations to be issued by the Authority. The work on the Transmission LEM Program is underway and is expected to continue through 2025.

The Authority's Trustees approved a $460 million Life Extension and Modernization Program at the Niagara project's Lewiston Pump-Generating Plant, (Lewiston LEM Program) of which $460 million of expenditures have been authorized and $295 million spent as of December 31, 2018. The work to be done includes a major overhaul of the plant's 12 pump turbine generator units. The Lewiston LEM Program will increase pump and turbine efficiency, operating efficiency, and the peaking capacity of the overall Niagara project. The Authority filed an application with the Federal Energy Regulatory Commission (FERC) for a non-capacity license amendment in connection with the program. The amendment was approved with a FERC order issued in 2012. The Authority intends to finance this LEM Program with internal funds and proceeds from debt obligations to be issued by the Authority. The unit work began in late 2012 and is on-going, with the final unit expected to be completed in 2022.

By order issued March 15, 2007, FERC issued the Authority a new 50-year license for the Niagara Project effective September 1, 2007. In doing so, FERC approved six relicensing settlement agreements entered into by the Authority with various public and private entities. In 2007, the Authority estimated that the capital cost associated with the relicensing of the Niagara project would be approximately $495 million. This estimate does not include the value of the power allocations and operation and maintenance expenses associated with several habitat and recreational elements of the settlement agreements. As of December 31, 2018 and 2017, the balance in the liability associated with the relicensing on the statement of net position is $267 million ($23 million in current and $244 million in other noncurrent liabilities) and $274 million ($24 million in current and $250 million in other noncurrent liabilities), respectively.

In 2003, FERC approved a Comprehensive Relicensing Settlement Agreement ("Relicensing Agreement") reached by the Authority and numerous parties and issued the Authority a new 50-year license for the St. Lawrence-FDR Project ("St. Lawrence-FDR License"). The Relicensing Agreement between the Authority and the Local Government Task Force ("LGTF") provided for a review of the Relicensing Agreement every ten years to address issues not contemplated at the time of relicensing in 2003. Following the review that began in 2013, the Authority and the LGTF entered into an agreement effective May 4, 2015 (the "LGTF Ten-Year Review Agreement") in which the Authority agreed to certain actions, including to: (1) fund an economic development strategic marketing study; (2) temporarily reduce electricity costs for certain farms and businesses; (3) initiate an energy efficiency and renewable energy program for the LGTF communities; and (4) enhance certain recreational facilities in the LGTF communities. On March 26, 2015, the Authority's Trustees authorized expenditures of up to $45.1 million for the purpose of implementing the commitments in the LGTF 10-Year Review Agreement and has spent approximately $27 million as of December 31, 2018.

More detailed information about the Authority's capital assets is presented in Note 2 "Summary of Significant Accounting Policies" and Note 5 "Capital Assets" of the notes to the consolidated financial statements.

Capital Structure

	2018	2017	2016
		(In millions)	
Long-term debt, net of current maturities:			
Senior:			
Revenue bonds	$ 653	$ 720	$ 784
Subordinated:			
Subordinated Notes, Series 2017 and 2012 (1)	43	44	21
Commercial paper	5	5	5
Total long-term debt, net of current maturities	701	769	810
Net position	4,734	4,739	4,081
Total capitalization	$ 5,435	$ 5,508	$ 4,891

(1) The Subordinated Notes, Series 2017 and 2012, which were issued in 2017 and 2012, respectively, are subordinate to the Series 2003 A Revenue Bonds, the Series 2007 A, B, and C Revenue Bonds, the Series 2011 A Revenue Bonds and the Series 2015 A Revenue Bonds.

During 2018, long-term debt, net of current maturities, decrease by $68 million, primarily due to scheduled maturities and cash funding of capital expenditures.

In November 2016, the Authority's Trustees authorized the issuance of Subordinated Notes, Series 2017 (Subordinated Notes Series 2017) in a principal amount not to exceed $30 million to accelerate additional funding for the State Parks Greenway Fund, which was established pursuant to the Niagara Relicensing Settlement entered into by the Authority and the New York State Office of Parks, Recreation & Historic Preservation in connection with the Niagara Project's relicensing. The Authority issued the subordinate notes on February 24, 2017 in the amount of $25.2 million.

Total debt to equity ratio as of December 31, 2018, was at .27-to-1 when compared to .28-to-1 as of December 31, 2017. Total debt as of December 31, 2018 is at its lowest level since December 31, 1974.

Debt Ratings

	Moody's	Standard & Poor's	Fitch
NYPA's underlying credit ratings:			
Senior debt:			
Long-term debt (a)	Aa1	AA	AA
Subordinate debt:			
Subordinate Notes, Series 2017	N/A	AA-	N/A
Subordinate Notes, Series 2012	N/A	N/A	AA
Commercial paper	P-1	A1+	F1+

(a) Long term debt includes certain bonds - Series 2007 A, B and C Revenue Bonds and Series 2003 A Revenue Bonds – the principal and interest when due is guaranteed under insurance policies issued by MBIA Insurance Corporation and Assured Guaranty Municipal Corporation, respectively. The credit ratings of MBIA

Insurance Corporation and Assured Guaranty Municipal Corporation are currently at or below the Authority's underlying credit ratings.

In January 2018, Standard & Poor's Ratings Service assigned a AA- rating to the Authority's Subordinated Notes, Series 2017, which they reaffirmed in January 2019. In January 2018, Standard & Poor's Ratings Service also affirmed the Authority's senior and subordinate debt ratings, which they affirmed in January 2019. In December 2018, Moody's Investors Service affirmed the Authority's commercial paper rating (they did not reconfirm their rating for the Authority's senior debt or review the Authority's Subordinated Notes, Series 2017 or Series 2012). In December 2018, Fitch Ratings affirmed the Authority's commercial paper rating, which they affirmed in January 2019 (they did not reaffirm their rating for the Authority's senior debt or Subordinated Notes, Series 2012 or review the Authority's Subordinated Notes, Series 2017).

The Authority has a line of credit under a 2019 revolving credit agreement (the 2019 RCA), with a syndicate of banks, to provide liquidity support for the Series 1-3 CP Notes, under which the Authority may borrow up to $600 million in aggregate principal amount outstanding at any time for certain purposes, including the repayment of the Series 1–3 CP Notes. The 2019 RCA expires January 22, 2022. The 2019 RCA succeeded the amended 2015 RCA, which expired by its terms on January 18, 2019 with no outstanding borrowings. There are no outstanding borrowings under the 2019 RCA.

Economic Conditions

Competitive Environment

The Authority's mission is to power the economic growth and competitiveness of New York State by providing customers with low-cost, clean, reliable power and the innovative energy infrastructure and services they value. The Authority's financial performance goals are to have the resources necessary to achieve its mission, to maximize opportunities to serve its customers better and to preserve its strong credit rating.

To maintain its position as a low cost provider of power in a changing environment, the Authority has undertaken and continues to carry out a multifaceted program, including: (a) the upgrade and relicensing of the Niagara, St. Lawrence-FDR, and Blenheim-Gilboa ("BG") projects (the relicensing of the BG project is expected to be completed in the 2nd quarter of 2019); (b) a newly renegotiated long-term supplemental electricity supply agreements with its governmental customers located in Southeastern New York (NYC Governmental Customers); (c) construction and operation of the 500 MW combined cycle electric generating plant located at the Authority's Poletti plant site; (d) a long-term electricity supply contract with Astoria Generating LLC for the purchase of the output of a 550-MW power plant in Astoria, Queens, ("AEII"); (e) a firm transmission capacity purchase agreement with Hudson Transmission Partners, LLC ("HTP") for a portion of the output of the 660 MW, seven mile, underground and underwater transmission line connecting into the transmission system operated by PJM Interconnection LLC (f) refinancing outstanding bonds to lower the overall cost of debt; and (g) implementation of an enterprise-wide energy/fuel risk management program. As a component of Authority's strategic plan, efforts to modernize the Authority's generation and transmission infrastructure are being developed and implemented to increase flexibility and resiliency, and to serve customers' needs in an increasingly dynamic energy marketplace.

To achieve its goal of promoting clean energy and efficiency, the Authority implements energy efficiency services for the benefit of its power supply customers and for various other public entities throughout the States. The Authority finances the installation of energy saving measures and equipment which are owned by the customers and public entities to focus on the reduction of the demand for electricity and the efficient use of energy.

The Authority operates in a competitive and sometimes volatile energy market environment. Through its participation in the NYISO and other commodity markets, the Authority is subject to electric energy price, fuel

price and electric capacity price risks that impact the revenue and purchased power streams of its facilities and customer market areas. Such volatility can potentially have adverse effects on the Authority's financial condition. To mitigate downside effects, many of the Authority's customer contracts provide for the complete or partial pass-through of these costs.

To moderate cost impacts to the Authority and its customers, the Authority, at times, hedges market risks through the use of financial instruments and physical contracts. Hedges are transacted by the Authority to mitigate volatility in the cost of energy or related products needed to meet customer needs; to mitigate risk related to the price of energy and related products sold by the Authority; to mitigate risk related to margins (electric sales versus fuel use) where the Authority owns generation or other capacity; and to mitigate geographic cost differentials of energy procured or sold for transmission or transportation to an ultimate location. Commodities to be hedged include, but are not limited to, natural gas, natural gas basis, electric energy, capacity and congestion costs associated with the supply of electricity. Any such actions are taken pursuant to policies and procedures approved by the Authority's Trustees and under the oversight of an Executive Risk Management Committee.

The Authority can give no assurance that, even with these measures, it will retain its competitive status in the marketplace in the future as a result of the restructuring of the State's electric utility industry and the emergence of new competitors or increased competition from existing participants.

Rate Actions

Power and energy from the St. Lawrence-FDR and Niagara hydroelectric facilities are sold to municipal electric systems, rural electric cooperatives, industrial and other business customers, certain public bodies, investor-owned utilities, out-of-state customers, and into the wholesale market. The charges for firm and/or firm peaking power and associated energy sold by the Authority, as applicable, to the fifty-one municipal electric systems and rural electric cooperatives in New York State, two public transportation agencies, three investor-owned utilities for the benefit of rural and domestic customers, eight host communities and seven out-of-state public customers have been established on the basis of the hydroelectric project costs. In November 2011, the Authority's Trustees approved a 41-month rate plan providing for phased-in rate increases covering the period ending April 30, 2015. The current rates, established with the last increase in May 2014, in conjunction with the Rate Stabilization Reserve mechanism, continue to be sufficient to recover the estimated costs to run the facilities for 2018, and will therefore remain in effect at current levels until further notice.

Expansion and Replacement Power industrial customers supplied from the Niagara facility and Preservation Power industrial customers supplied from the St. Lawrence-FDR facility are allocated over 35% of the combined firm contracted demand of the plants. Their rates are subject to annual adjustment based on the average of three contractually agreed-upon economic indices reflecting changes in industrial energy prices. In addition, one of the customers served by the St. Lawrence-FDR facility has an energy rate partially tied to market prices of aluminum.

ReCharge New York ("RNY") is Governor Cuomo's statewide economic development electric power program, designed to retain and create jobs through the allocation of low-cost power. The RNY program allocates 455 MW of hydropower from the Authority's Niagara and St. Lawrence-FDR projects at Preservation Power rates, which are similar to the Expansion and Replacement power customer rates, with certain adjustments. An additional 455 MW of market power can also be procured for RNY customers upon request.

The Authority has supplied electric power to its governmental customers located within New York City and Westchester County since 1976. Effective January 2018, new long term agreements were executed with a number of these customers, incorporating recent shifts in the electricity business, New York State's clean energy goals, and continuing changes in the Authority's supply portfolio, all in an effort to continue to provide value for, and serve this customer group.

In an order issued January 27, 1999, FERC approved the use of a $165.4 million transmission system revenue requirement in developing rates for use of NYPA's transmission facilities in the NYISO market. FERC also approved, among other things, the imposition of a NYPA Transmission Adjustment Charge ("NTAC") and the NYPA Transmission Service Charges ("TSC") which are the tariff elements established to achieve full recovery of the Authority's annual transmission revenue requirement ("ATRR"). In July 2012, the Authority filed for its first requested increase in the revenue requirement with FERC since the implementation of the NYISO. This filing resulted in FERC's October 4, 2013 order accepting an uncontested settlement agreement establishing a new $175.5 million revenue requirement. In January 2016, the Authority filed to convert from a Stated Rate to a Formula Rate to ensure full recovery of its revenue requirement based upon operating and maintenance expenses as well as the capital spending necessary to maintain the reliability of its transmission system, such as the Life Extension and Modernization program. The Authority filed an unopposed Offer of Settlement on September 30, 2016 that fully resolved the issues raised by interested parties in settlement negotiations concerning the formula rate. The settlement was approved by FERC on January 19, 2017. Separately, the ATRR under the formula of $190 million initially made effective April 1, 2016 was updated on July 1, 2016 to $198.2 million pursuant to the formula rate annual update process. The ATRR effective July 1, 2018 is $226.5 million including the revenue requirement for the Marcy South Series Compensation Project.

Recharge New York Power Program

Chapter 60 (Part CC) of the Laws of 2011 (Chapter 60) established the "Recharge New York Power Program" (RNYPP), administered by the Authority, which has as its central benefit up to 910 MW of low cost power comprised of up to 455 MW of hydropower from the Niagara and St. Lawrence-FDR Projects and up to 455 MW of other power procured by the Authority from other sources. The 910 MW of power is available for allocation as provided by Chapter 60 to eligible new and existing businesses and not-for-profit corporations under contracts of up to seven years. RNYPP was effective beginning July 1, 2012.

The RNYPP replaced two other programs, the Power for Jobs (PFJ) and Energy Cost Savings Benefit (ECSB) Programs, which had extended benefits of low-cost power to certain businesses, small businesses and not-for-profit organizations. Those PFJ and ECSB Program customers who were in substantial compliance with contractual commitments under the PFJ and ECSB Programs and who applied but did not receive RNYPP allocations are eligible to apply for transitional electricity discounts, as provided for in Chapter 60. This transitional electricity discounts program provided for declining levels of discounts through June 30, 2016, when the program terminated, if payment of such discounts was deemed feasible and advisable by the Authority's Trustees. As of December 31, 2018, the Authority's Trustees have authorized transitional electricity discount payments of up to $20 million for the period from July 1, 2012 and June 30, 2016. As of December 31, 2018, approximately $12 million of such discounts have been paid.

The hydropower used for the RNYPP was power formerly used to provide low-cost electricity to domestic and rural customers of the three private utilities that serve upstate New York. To mitigate the impacts from the redeployment of this hydropower for the RNYPP, Chapter 60 created a "Residential Consumer Discount Program" (RCDP). The RCDP authorizes the Authority, as deemed feasible and advisable by its Trustees, to provide annual funding of $100 million for the first three years following withdrawal of the hydropower from the residential and farm customers, $70 million for the fourth year, $50 million for the fifth year, and $30 million each year thereafter, for the purpose of funding a residential consumer discount program for those customers that had formerly received the hydropower that is utilized in the RNYPP. Chapter 60 further authorizes the Authority, as deemed feasible and advisable by the Trustees, to use revenues from the sales of hydroelectric power, and such other funds of the Authority, as deemed feasible and advisable by the Trustees, to fund the RCDP. The Authority's Trustees have authorized the release of a total $534 million for the period from August 2011 to December 2018 in support of the RCDP. The Authority supplemented the market revenues through the use of internal funds, from

the August 2011 start of the program through December 31, 2018, totaling cumulatively $76 million. Operations and maintenance expenses included $30 million of residential consumer discounts in each years ended December 31, 2018 and 2017.

Western New York Power Proceeds Allocation Act

Effective March 30, 2012, Chapter 58 (Part GG) of the Laws of 2012 (Chapter 58) created the Western New York Power Proceeds Act (WNYPPA). The WNYPPA authorizes the Authority, as deemed feasible and advisable by the Trustees, to deposit net earnings from the sale of unallocated Expansion Power and Replacement Power from the Authority's Niagara project into an account administered by the Authority known as the Western New York Economic Development Fund (WNYED Fund). Net earnings are defined as any excess revenues earned from such power sold into the wholesale market over the revenues that would have been received had the power been sold at the Expansion Power and Replacement Power rates. Proceeds from the Fund may be used to support eligible projects undertaken within a 30-mile radius of the Niagara power project that satisfy applicable criteria. Chapter 58 also establishes a five-member Western New York Power Allocations Board, which is appointed by the Governor. Chapter 58 also repealed Chapter 436 of the Laws of 2010 which had created a similar program that could not be effectively implemented.

The Authority's Trustees have approved the release of up to $63 million in net earnings, calculated for the period August 30, 2010 through December 31, 2018 as provided in the legislation, for deposit into the Fund. As of December 31, 2018, $42 million has been deposited into the Fund. As of December 31, 2018, the Authority has approved awards of Fund money totaling approximately $37 million to businesses that have proposed eligible projects and has made payments totaling $31 million to such businesses. Payment of these awards is contingent upon the execution of acceptable contracts between the Authority and individual awardees.

Northern New York Power Proceeds Allocation Act

Chapter 545 of the Laws of 2014 enacted the "Northern New York Power Proceeds Act" (NNYPPA). The NNYPPA authorizes the Authority, as deemed feasible and advisable by the Trustees, to deposit "net earnings" from the sale of unallocated St. Lawrence County Economic Development Power (SLCEDP) by the Authority in the wholesale energy market into an account the Authority would administer known as the Northern New York Economic Development Fund (NNYED Fund), and to make awards to eligible applicants that propose eligible projects that satisfy applicable criteria. The NNYPPA also establishes a five-member Northern New York Power Allocations Board appointed by the Governor to review applications seeking NNY Fund benefits and to make recommendations to the Authority concerning benefits awards.

SLCEDP consists of up to 20 MW of hydropower from the Authority's St. Lawrence-FDR Power Project which the Authority has made available for sale to the Town of Massena Electric Department ("MED") for MED to sub-allocate for economic development purposes in accordance with a contract between the parties entered into in 2012 (Authority-MED Contract). The NNYPPA defines "net earnings" as the aggregate excess of revenues received by the Authority from the sale of energy associated with SLCEDP by the Authority in the wholesale energy market over what revenues would have been received had such energy been sold to MED on a firm basis under the terms of the Authority-MED contract. For the first 5 years after enactment, the amount of SLCEDP the Authority could use to generate net earnings may not exceed the lesser of 20 MW or the amount of SLCEDP that has not been allocated by the Authority pursuant to the Authority-MED contract. Thereafter, the amount of SLCEDP that the Authority could use for such purpose may not exceed the lesser of 10 MW or the amount of SLCEDP that has not been allocated.

As of December 31, 2018, the Authority's Trustees approved the release of funds, of up to $12 million, into the NNYED Fund representing "net earnings" from the sale of unallocated SLCEDP into the wholesale energy market

for the period December 29, 2014 through December 31, 2018. As of December 31, 2018, approximately $4 million has been deposited into the Fund. As of December 31, 2018, the Authority has approved awards of NNYED Fund money totaling approximately $2 million to businesses that have proposed eligible projects. Payment of approved awards of the NNYED Fund money is contingent upon the execution of acceptable contracts between the Authority and individual awardees.

Governmental Customers in the New York City Metropolitan Area

In 2005, the Authority and its eleven NYC Governmental Customers, including the Metropolitan Transportation Authority, the City of New York, the Port Authority of New York and New Jersey (Port Authority), the New York City Housing Authority, and the New York State Office of General Services, entered into long-term supplemental electricity supply agreements (2005 LTAs) with a term through December 31, 2017. Under the 2005 LTAs, the NYC Governmental Customers agreed to purchase their electricity from the Authority through December 31, 2017.

Under the 2005 LTAs, the Authority and the NYC Governmental Customers modified rates through an annual process based on cost of service principles.

In 2018 and 2019, the Authority executed new supplemental long-term electricity supply agreements (Supplemental LTAs) with its eleven NYC Governmental Customers. Under the Supplemental LTAs, the NYC Governmental Customers agreed to purchase their electricity from the Authority through December 31, 2027, with the NYC Governmental Customers having the right to (1) terminate at any time upon at least 12 months' notice or (2) terminate effective December 31, 2022 upon at least 6 months' notice. Under the Supplemental LTAs, fixed costs were set for each customer and are subject to renegotiation in 2022. Variable costs, including fuel, purchased power and NYISO related costs, will be passed through to each customer by an energy charge adjustment.

The Authority's other Southeastern New York (SENY) Governmental Customers are Westchester County and numerous municipalities, school districts, and other public agencies located in Westchester County (collectively, the "Westchester Governmental Customers"). The Authority has entered into a supplemental electricity supply agreement with all 103 Westchester Governmental Customers. Among other things, under the agreement, an energy charge adjustment mechanism is applicable, and customers are allowed to partially terminate service from the Authority on at least two months' notice prior to the start of the NYISO capability periods. Full termination is allowed on at least one year's notice, effective no sooner than January 1 following the one year notice.

HTP Transmission Line

In 2011, the Trustees authorized Authority staff to enter into an agreement with Hudson Transmission Partners, LLC (HTP) for the purchase of capacity to meet the long-term requirements of the Authority's NYC Governmental Customers and to improve the transmission infrastructure serving New York City through the transmission rights associated with HTP's transmission line (the Line) extending from Bergen County, New Jersey in the PJM Interconnection, LLC (PJM) transmission system, to Consolidated Edison Company of New York, Inc.'s (Con Edison) West 49th Street substation in the NYISO. Specifically, the Authority executed a Firm Transmission Capacity Purchase Agreement (FTCPA) with HTP under which the Authority gained the entitlement to 75% of the Line's 660 MW capacity, or 495 MW, for 20 years. The Authority's capacity payment obligations under the FTCPA began upon the Line's commencement of commercial operation, which occurred on June 3, 2013. Also upon commercial operation, the FTCPA obligates the Authority to reimburse HTP for the cost of interconnection and transmission upgrades in New York and New Jersey associated with the Line and to pay for all remaining upgrade costs as they are incurred. Such interconnection and transmission upgrades have been completed. As of December 31, 2018, the Authority paid approximately $334.9 million of such costs related to

the interconnection and transmission upgrades. The Authority's obligations under the FTCPA also include payment of the Regional Transmission Enhancement Plan (RTEP) charges allocated to HTP in accordance with the PJM tariff. Such RTEP costs are significant and are discussed below.

It is estimated that the revenues derived from the Authority's rights under the FTCPA will not be sufficient to fully cover the Authority's costs under the FTCPA during the 20-year term of the FTCPA. In December 2018, the Authority estimated that its under-recovery of costs under the FTCPA could be in the range of approximately $89 million to $95 million per year over the period from 2019-2022. The under-recovery estimates were based on projections of the capacity payment obligations, the costs of interconnection and transmission upgrades, and energy revenues.

PJM's RTEP cost allocation methodology for certain upgrades, such as the Bergen-Linden Corridor (BLC) project built by Public Service Electric & Gas Company (PSE&G) in New Jersey, is being challenged at FERC in numerous proceedings by Con Edison, the Authority, HTP and other parties on the grounds that PJM has disproportionately allocated the costs of those projects to those parties. In a separate FERC proceeding, the Authority challenged the RTEP share of the BLC project costs allocated to HTP that were effective May 1, 2017 as a result of Con Edison's termination of its PJM firm transmission rights. The cost allocations shifted approximately $533 million in RTEP charges for the BLC project that had previously been allocated to Con Edison to HTP. Such costs are in addition to the $111 million in RTEP charges for the BLC project that had been previously allocated to HTP. RTEP costs relating to the BLC project would be paid over a number of years after construction commenced in 2017. Construction of the BLC project was completed in 2018.

From June 2013 through December 2018, the Authority has paid approximately $93 million in RTEP charges for the Line, including the BLC project and pre-2013 RTEP project allocations described below. In addition, the Authority expects to pay an additional approximately $3.8 million through July 2019 for the pre-2013 RTEP projects allocations described below. The pre-2013 RTEP project allocations arise from a contested settlement that FERC approved in May 2018 over the objections of the Authority and HTP.

In July 2017, the Authority, together with HTP, sought to relinquish the Firm Transmission Withdrawal Rights ("FTWRs") held by HTP on the Line. HTP's FTWRs formed the basis for the allocation of RTEP costs to HTP, which are the Authority's obligation under the FTCPA. In the resulting FERC order dated December 15, 2017, FERC determined that HTP may relinquish its firm rights effective immediately. Accordingly, when PJM's annual RTEP cost allocation update for 2018 was filed, the Authority's obligation to pay RTEP charges related to the BLC project was 100% eliminated for 2018 and beyond. FERC issued its March 5, 2018 order endorsing PJM's new cost allocation. Both the December 15, 2017 and the March 5, 2018 FERC orders are pending rehearing. On July 19, 2018, FERC established procedures to allow parties to resolve by settlement the continuing disputes in these and several other ongoing RTEP proceedings that relate to the allocation of BLC project costs. Settlement efforts commenced in August 2018 and those efforts are continuing. If no settlement is reached, FERC will need to issue orders deciding these proceedings.

On March 31, 2017, the Authority and HTP executed an amendment to the FTCPA. In exchange for the Authority extending the cure period for HTP to replace underwater cables that have been subject to failure and which have resulted in the Line being out of service, under the amended FTCPA the Authority received HTP's assurances to pursue certain remedies at FERC concerning the termination of the 320 MW of FTWRs in order to eliminate RTEP assessments and a guarantee that if PJM RTEP assessments cannot be eliminated despite HTP's efforts to terminate the FTWRs, that HTP will cancel its interconnection service agreement ("ISA") to physically disconnect the Line from the PJM transmission system, causing termination of all RTEP allocations. The FERC orders from December 15, 2017 and March 5, 2018 have fulfilled the goal of eliminating the RTEP assessments associated with the BLC project (though subject to further legal processes as described above). In addition, the Authority

and HTP agreed to: (a) based upon RTEP costs already paid, increase, by $40 million, the size of the tracking account that is used to offset the cost to purchase the Line at the end of the FTCPA term, at the Authority's option, and (b) shared rights to direct power on the Line in the opposite direction of its current flow should market conditions present revenue opportunities for selling capacity and energy from New York to New Jersey. In November 2017, HTP completed the cable replacement and, pursuant to the March 31, 2017 amendments, the Authority increased the leased portion of the Line's capacity from 75% to 87.12%, bringing the total leased capacity from 495 MW to 575 MW at a monthly capacity charge rate that represents a decrease in the unit price (on a $/MW-month basis) paid to HTP in the original FTCPA. The Authority estimates that increasing the leased portion of the line to 87.12% will increase its capacity payments by approximately $6 million to $9 million per year over the term of the FTCPA.

Canal Corporation

The Canal Corporation operates at a loss and is expected to require substantial operating and maintenance support and capital investment. The Canal Corporation's expenses are expected to be funded by transfers of funds from the Authority. Any transfer of funds would be subject to approval by the Authority's Board of Trustees and compliance with the Authority's General Resolution Authorizing Revenue Obligations, as amended and supplemented. Certain expenses eligible for reimbursement are expected to be reimbursed to the Authority by moneys held in the Canal Development Fund maintained by the State Comptroller and the Commissioner of Taxation and Finance. For the year ended December 31, 2018, the Canal Corporation recognized $2 million in revenues, $101 million in operations and maintenance expenses and $23 million in depreciation expense. For the year ended December 31, 2017, the Canal Corporation recognized $2 million in revenues, $93 million in operations and maintenance expenses and $23 million in depreciation expense.

On December 11, 2018, the Canal Corporation's Board of Directors adopted a budget for 2019 that included expenditures of $86.2 million for operations and maintenance, $54.7 million for capital, and $2.5 million for Canal Development Fund expenses expected to be reimbursed from the Canal Development Fund.

Given the age of the Canal System, the Authority expects that significant maintenance and capital investments will be required to assure its continuing operation. The Authority's budget and financial plan for 2019-2022 includes the adopted Canals budget for 2019 and Canal-related operating expenditures of $85 million per year for 2020-2022, including expenses expected to be reimbursed from the Canal Development Fund. The Authority's 2019-2022 budget and financial plan includes Canal System related capital expenditures of $40 million per year over 2020-2022. The Authority will continue to evaluate the condition of the Canal System and expects to allocate additional funding if deemed necessary through its annual budgeting process.

New York State Budget

Budget

The Authority is requested, from time to time, to make financial contributions or transfers of funds to the State. Any such contribution or transfer of funds must (i) be authorized by law (typically, legislation enacted in connection with the State budget), and (ii) satisfy the requirements of the Bond Resolution. The Bond Resolution requirements to withdraw moneys "free and clear of the lien and pledge created by the (Bond) Resolution" are as follows: (1) such withdrawal must be for a "lawful corporate purpose as determined by the Authority," and (2) the Authority must determine "taking into account, among other considerations, anticipated future receipt of Revenues or other moneys constituting part of the Trust Estate, that the funds to be so withdrawn are not needed" for (a) payment of reasonable and necessary operating expenses, (b) an Operating Fund reserve for working capital, emergency repairs or replacements, major renewals, or for retirement from service, decommissioning or

disposal of facilities, (c) payment of, or accumulation of a reserve for payment of, interest and principal on senior debt, or (d) payment of interest and principal on subordinate debt.

In May 2011, the Authority's Trustees adopted a policy statement (Policy Statement) which relates to, among other things, voluntary contributions, transfers, or other payments to the State by the Authority after that date. The Policy Statement provides, among other things, that in deciding whether to make such contributions, transfers, or payments, the Authority shall use as a reference point the maintenance of a debt service coverage ratio of at least 2.0 (this reference point should not be interpreted as a covenant to maintain any particular coverage ratio), in addition to making the other determinations required by the Bond Resolution. The Policy Statement may at any time be modified or eliminated at the discretion of the Authority's Trustees.

The 2018-2019 Enacted State Budget contains a provision authorizing the Authority as deemed "feasible and advisable by its trustees" to transfer to the State treasury to the credit of the general fund $20 million for the State fiscal year commencing April 1, 2018, the proceeds of which will be utilized to support energy-related State activities.

The 2019-2020 Executive Budget Proposal contains a provision authorizing the Authority as deemed "feasible and advisable by its trustees" to transfer to the State treasury to the credit of the general fund $20 million for the State fiscal year commencing April 1, 2019, the proceeds of which will be utilized to support energy-related State activities.

The Authority cannot predict what additional voluntary contributions or transfers to the State may be authorized by law in the future nor whether its Trustees will authorize such voluntary contributions or transfers.

Temporary Asset Transfers

In addition to the authorization for voluntary contributions, as a result of budget legislation enacted in February 2009, the Authority was requested to provide temporary asset transfers to the State of funds held in reserves. Pursuant to the terms of a Memorandum of Understanding dated February 2009 (MOU) between the State, acting by and through the State's Director of Budget, and the Authority, the Authority agreed to transfer approximately $215 million associated with its Spent Nuclear Fuel Reserves (Asset B) by March 27, 2009. The Spent Nuclear Fuel Reserves are funds that had been set aside for payment to the federal government sometime in the future when the federal government accepts the spent nuclear fuel for permanent storage (see Note 12 – "Nuclear Plant Divestiture and Related Matters"). The MOU provides for the return of these funds to the Authority, subject to appropriation by the State Legislature and the other conditions described below, at the earlier of the Authority's payment obligation related to the transfer and disposal of the spent nuclear fuel or September 30, 2017. Further, the MOU provides for the Authority to transfer within 180 days of the enactment of the 2009-2010 State budget $103 million of funds set aside for future construction projects (Asset A), which amounts would be returned to the Authority, subject to appropriation by the State Legislature and the other conditions described below, at the earlier of when required for operating, capital or debt service obligations of the Authority or September 30, 2014. The MOU provides that the obligation of the State to return all or a portion of an amount equal to the moneys transferred by the Authority to the State is subject to annual appropriation by the State Legislature. Further, the MOU provides that as a condition to any such appropriation for the return of the moneys earlier than September 30, 2017 for the Spent Nuclear Fuel Reserves and earlier than September 30, 2014 for the construction projects, the Authority must certify that the monies available to the Authority are not sufficient to satisfy the purposes for which the reserves, which are the source of the funds for the transfer, were established.

In February 2009, the Authority's Trustees authorized the execution of the MOU relating to the temporary transfers of Asset B ($215 million) and Asset A ($103 million) and such transfers were made in March 2009 and September 2009, respectively, following Trustee approval.

In lieu of interest payments, the State has waived certain future payments from the Authority to the State. The waived payments include the Authority's obligation to pay until September 30, 2017 the amounts to which the State is entitled under a governmental cost recovery process for the costs of central governmental services. These payments would have been approximately $5 million per year based on current estimates but the waiver is limited to a maximum of $45 million in the aggregate during the period. Further, the obligation to make payments in support of certain State park properties and for the upkeep of State lands adjacent to the Niagara and St. Lawrence power plants is waived from April 1, 2011 to March 31, 2017. These payments would have been approximately $8 million per year but the waiver would be limited to a maximum of $43 million for the period. The present value of the waivers approximates the present value of the forgone interest income. In the Second Amendment to the MOU discussed below, the Authority and the State agreed to enter into alternative cost recovery agreements for each of State Fiscal Year 2017-18 through State Fiscal Year 2022-23 that the asset transfers have not been fully returned to the Authority. The alternative cost recovery agreements would relieve the Authority of any obligation to make up to $5 million in cost recovery assessment payments to the State in each year. In the event that the cost recovery assessment for a given year exceeds $5 million, the assessment due from the Authority would be limited to the difference between the assessment and $5 million. The State and the Authority entered into the first such alternative cost recovery agreement, dated as of March 31, 2017, with respect to State Fiscal Year 2017-18. In accordance with such agreement, the Authority was not charged an assessment for such State Fiscal Year.

On April 24, 2014, the Authority and the State executed an Amendment to the MOU which provides that the State shall, subject to appropriation by the State Legislature, return the $103 million (Asset A) in five installments in the following amounts and by no later than September 30 of each of the following State fiscal years: (1) $18 million for State Fiscal Year 2014-2015; (2) $21 million for State Fiscal Year 2015-2016; (3) $21 million for State Fiscal Year 2016-2017; (4) $21 million for State Fiscal Year 2017-2018; and (5) $22 million for State Fiscal Year 2018-2019. By its terms, the Amendment to the MOU became effective when it was approved and ratified by the Authority's Board of Trustees on July 29, 2014. The Authority has received cumulative installment payments of $103 million as of December 31, 2018.

The Authority and the State executed a Second Amendment to the MOU, dated as of June 30, 2017, that provides for the return to the Authority of the $215 million (Asset B) in the following amounts and by no later than September 30 of each of the following State fiscal years: (1) $22 million for State Fiscal Year 2017-18, (2) $21 million for State Fiscal Year 2018-19, (3) $43 million for State Fiscal Year 2019-20, (4) $43 million for State Fiscal Year 2020-21, (5) $43 million for State Fiscal Year 2021-22, and (6) $43 million for State Fiscal Year 2022-23. The obligation of the State to return the moneys transferred by the Authority to the State is subject to annual appropriation by the State Legislature. The Authority has received cumulative installment payments of $43 million as of December 31, 2018. The asset transfers are reported in miscellaneous receivables and other ($43 million and $43 million as of December 31, 2018 and December 31, 2017, respectively) and in other noncurrent assets ($129 million and $172 million at December 31, 2018 and December 31, 2017, respectively) in the statements of net position.

Niagara Parkway Redevelopment

The State plans to replace an underutilized two-mile stretch of the Robert Moses Parkway North in Niagara Falls with open space, scenic overlooks and recreational trails. Construction commenced in 2018 and is expected to take approximately three years to complete with funding to be provided by the Authority. As of December 31, 2018, the Authority's Trustees have approved up to $42 million in funding by the Authority. As of December 31, 2018, the Authority has disbursed approximately $4.4 million.

AGILe

The Authority, in collaboration with the State utilities, New York State Energy Research Development Authority ("NYSERDA") and NYISO, has developed an advanced grid innovation lab for energy ("AGILe") to create new tools to better monitor, control, accommodate and respond to the evolving energy sector. Costs to the Authority are estimated at $20 million over the initial three year period and are not expected to exceed $50 million through final build-out of the facility. Upon completion, operating and maintenance costs are expected to be shared among AGILe participants. On July 25, 2017, the Authority's Trustees authorized capital expenditures in the amount of $20 million for the initial phase of AGILe, which has since commenced. As of December 31, approximately $3.7 million has been spent.

Moses Adirondack Line

The Authority is moving forward with its plans to replace a major section of the Moses Adirondack Line, one of the Authority's backbone transmission facilities. The replacement project covers 78 miles of 230 kV transmission line from Massena to the town of Croghan in Lewis County. In July 2017, the Authority received authorization under the NYISO tariff to include the costs of this replacement project in its NYPA Transmission Adjustment Charge mechanism for cost recovery of the Authority's transmission system costs, which means that the costs will be allocated to all ratepayers in the State. The project includes the replacement of obsolete wood pole structures with higher, steel pole structures, as well as replacement of failing conductor with new conductor and insulation. The line will operate at its current 230 kV level, but the conductor and insulation design will accommodate future 345 kV operation. The Authority anticipates that the Moses Adirondack line will support the transmission of growing levels of renewable generation located in upstate New York and Canada, such as wind and hydroelectricity, and assist in meeting the State's renewable energy goals. The rebuilt line is also expected to enhance grid reliability by supporting the NYISO's black start plan. On September 21, 2018, the Public Service Commission determined that the Authority's April 2018 Article VII application was complete. In 2018, the Authority estimated a project cost of $484 million. Construction is expected to take four years and begin in 2020.

New York Energy Highway

In January 2012, the Governor of New York announced the New York Energy Highway initiative, which is envisioned as a public-private partnership to upgrade and modernize the State's electric power system. The Governor formed a task force comprised of various State officials to oversee implementation of the initiative (Task Force) which is co-chaired by the Authority's President and Chief Executive Officer. In April 2012, the Task Force issued a request for information seeking ideas and proposals in furtherance of the initiative. Approximately 85 organizations responded to the Task Force's request for information and the responses included a large number of different generation and transmission project proposals. Based on the response of all these organizations, the Energy Highway Task Force issued an action plan in October 2012. The resulting Energy Highway Blueprint, calling for public and private investments in the State's energy system of about $5.7 billion over the next five to 10 years, proposed 13 specific actions, divided among four major categories: Expand and Strengthen the System, Accelerate Construction and Repair, Support Clean Energy and Technology Innovation.

In November 2012, the New York Public Service Commission (NYPSC) announced new proceedings addressing various actions described in the Blueprint including (i) the initiation of electric transmission upgrades to move excess power from upstate to downstate (AC Transmission), (ii) the creation of a contingency plan to prepare for a large generator retirement (Generation Retirement Contingency Plan) and (iii) the expansion of natural gas delivery to homeowners and businesses in New York State.

In response to the request for information and the Generation Retirement Contingency Plan and AC Transmission proceedings, the New York Transmission Owners (NYTOs), comprised of the State's largest private utilities, LIPA, and the Authority, indicated that they were exploring the creation of a new Statewide transmission entity (NY Transco) to pursue development, construction, operation, and ownership of new transmission projects. The NYTOs proposed to the Task Force and to the NYPSC several transmission projects that could be undertaken by a NY Transco entity. Participation of the Authority in the NY Transco would be contingent on the enactment of legislation by the State that enables the Authority to participate. As of the 2015 legislative session, which ended in June 2015, such enabling legislation has not been passed. On November 24, 2014, affiliates of the NYTOs formed a transmission entity (Four-Party Transco) that does not include LIPA or the Authority but would permit their participation should the necessary enabling legislation be passed.

In its November 4, 2013 Generation Retirement Contingency Plan Order, the NYPSC selected three transmission projects (TOTS projects) to be built by Consolidated Edison, New York State Electric and Gas (NYSEG) and the Authority. The NYPSC also requested that the NYTOs seek Federal Energy Regulatory Commission (FERC) approval for the three TOTS projects. On December 4, 2014, the NYTOs on behalf of themselves and the Four-Party Transco filed applications at FERC to permit the transfer of certain transmission assets to the Four-Party Transco. The Four-Party Transco also filed an application for cost allocation and recovery for five projects, including the three TOTS projects. A negotiated settlement of that cost allocation has been approved by FERC. The Authority co-developed one of the TOTS projects, the Marcy-South Series Compensation, with NYSEG and has also completed a negotiated settlement at FERC to recover the costs of its portion of that project.

Build Smart NY Initiative

On December 28, 2012, the Governor of New York issued Executive Order No. 88 (EO 88) directing state agencies collectively to reduce energy consumption in state-owned and managed buildings by 20 percent within seven years – an initiative designed to produce significant savings for New York taxpayers, generate jobs, and significantly reduce greenhouse gas emissions. To meet this initiative, the Governor launched Build Smart NY, a plan to strategically implement EO 88 by accelerating priority improvements in energy performance. The Authority has offered to provide $450 million in low-cost financing for this initiative for state owned buildings and an additional $350 million for towns and municipalities. Such low-cost financing would be funded by proceeds of the Authority's commercial paper or another form of debt. The Authority's costs of financing would be recovered from the energy efficiency customers in this program. In addition, as provided for in EO 88, the Authority has established a central management and implementation team which designed implementation guidelines milestones and data collection and analysis systems to support the program. The team conducts routine outreach and meetings with affected state agencies and has commenced the implementation phase of the Build Smart NY program. As of December 31, 2018, the Authority has in aggregate provided approximately $511.6 million in financing for energy efficiency projects at State agencies and authorities covered by EO 88.

Certain Solar and Energy Efficiency Initiatives

In March 2012, the Authority's Trustees authorized up to $30 million in funding over five years for a solar market acceleration program involving solar research, training, and demonstration projects. In January 2017, the Authority's Trustees extended the program through December 2018. As of December 31, 2018, the Authority has approved the award of contracts with cumulative value of up to approximately $6.7 million

In June 2012, the Authority's Trustees authorized up to $30 million in funding over five years for an energy efficiency market acceleration program involving energy efficiency research, demonstration projects, and market development. In January 2017, the Authority's Trustees extended the program through December 2018. As of December 31, 2018, the Authority has approved the award of contracts with a cumulative value of up to approximately $17 million.

In February 2015, the Authority's Trustees authorized up to $12 million in funding over two years for initial implementation of the Five Cities Energy Plans for the cities of Albany, Buffalo, Rochester, Syracuse and Yonkers. In January 2017, the Authority's Trustees extended the program through December 2018. As of December 31, 2018, the Authority has approved the award of contracts with a cumulative value of approximately $9.7 million.

Clean Energy Standard

On August 1, 2016, the NYPSC issued an order establishing a Clean Energy Standard (the "CES Order") to implement the clean energy goals of the State Energy Plan. Pursuant to the CES Order, load serving entities identified in the order are required to purchase "Zero Emission Credits" ("ZECs") from the New York State Energy Research Development Authority ("NYSERDA") to support the preservation of existing at-risk zero emissions nuclear generation. The Authority is not subject to NYPSC jurisdiction for purposes of the CES Order but has assumed an obligation to purchase ZECs consistent with the terms of the CES Order and intends to seek recovery of such costs from the Authority's customers. On January 31, 2017, the Authority's Trustees authorized (a) participation in the NYPSC's ZEC program and (b) execution of an agreement with NYSERDA to purchase ZECs associated with the Authority's applicable share of energy sales. The Authority and NYSERDA executed an agreement covering a two year period from April 1, 2017 to March 31, 2019 under which the Authority committed to purchase ZECs in a quantity based on its proportional load in the New York control area. As of December 2018, the Authority estimates that it will incur ZEC purchase costs associated with participation in the ZEC program of approximately $268.4 million in aggregate over the 2019-2022 period, of which approximately $14.8 million is not expected to be recovered under customer contracts that predate the adoption of the CES Order. As of December 31, 2018, the Authority has paid $83.6 million in ZEC purchase costs.

Electric Vehicle Acceleration Initiative

In May 2018, the Authority's Trustees approved an overall allocation of up to $250 million to be used through 2025 for an electric vehicle acceleration initiative and authorized $40 million for the first phase of the initiative.

Carbon Free Flexibility Initiative

In December 2018, the Authority's Trustees approved the development of a carbon free flexibility initiative through 2025 at a cost of up to $250 million and authorized up to $65 million for the first phase of the initiative.

Large-Scale Renewable Program

In support of the Clean Energy Standard goal for the State to achieve 50% renewable energy by 2030, the Authority issued a request for proposals in June 2017 to solicit renewable energy credits, energy and capacity from eligible large-scale renewable projects with a minimum size of 5MW, 10MW or 20MW, depending on the underlying technology. On January 30, 2019, the Authority's Trustees approved the award of a 20-year power purchase agreement to Canisteo Wind Energy LLC for energy, capacity and renewable energy credits to be generated from a to-be-constructed 290 MW wind project. The project is expected to be in-service by December 31, 2020. Costs associated with the agreement are expected to be recovered through sales of energy and capacity through the NYISO and sales of RECs to the Authority's customers.

Reforming the Energy Vision

In April 2014, the NYPSC commenced a proceeding to reform the State's energy industry and regulatory practices. According to the NYPSC, this initiative, called Reforming the Energy Vision ("REV"), will lead to regulatory changes that promote more efficient use of energy; deeper penetration of renewable energy resources such as wind and solar; and wider deployment of smaller power sources located closer to the customer load, including micro grids capable of meeting the regular demands of a community of consumers, on-site power supplies, and energy storage. REV also aims to promote greater use of advanced energy management products to enhance demand

elasticity and efficiencies. The NYPSC order instituting the proceeding designated two tracks for the REV with track one focused on developing distributed resource markets and track two focused on reforming utility ratemaking practices.

The NYPSC has identified six core policy objectives for REV relating to enhanced customer knowledge and tools to support effective management of total energy bills, market animation and leverage of customer contributions, system-wide efficiency, fuels and resource diversity, system reliability and resiliency, and reduction of carbon emissions. A NYPSC "Staff Report and Proposal" released in April 2014 set forth a vision for how to accomplish the NYPSC's objectives. This report and additional information on REV, including the Order Adopting Regulatory Policy Framework and Implementation Plan issued and effective February 26, 2015 (Track 1) and Order Adopting a Ratemaking and Utility Revenue Model Policy Framework issued and effective May 19, 2016 (Track 2), are available at http://www.dps.ny.gov/. No statement on that website is incorporated by reference herein. The NYPSC has several ongoing proceedings related to Track 1 and Track 2 of REV that the Authority is following.

While the NYPSC does not have jurisdiction over rates for power generated or transmitted by the Authority, the reforms and innovations contemplated in the REV initiative are expected by the NYPSC to be done in conjunction with certain independent but related actions of the Authority, and will impact electricity rates for energy efficiency project customers. As a result, the Authority monitors the REV initiative closely and expects to evaluate any regulatory reforms that are ultimately implemented and their impact on project implementation and suitability for adoption by the Authority and its customers.

Retirement of Generation Resources

The retirement of generation resources may impact the Authority's resources, both positively and negatively. The reduction in the amount of generation capacity available to the system that results from generator retirement will, all other things being equal, increase the unit price paid for capacity from the Authority's resources. Retirement of resources also can affect power flows and the ability to fully access the energy available from the Authority's assets. For example, the retirement of coal-fired generation stations in Western New York could limit the amount of energy that the transmission system in the vicinity of the Authority's Niagara Project can accommodate, thus preventing the full use of this asset.

Recognizing the potential for such retirements and the impact they could have on the operation of the Niagara Project and the ability to access renewable power from Ontario, Canada, on July 20, 2015 the NYPSC issued an order that granted requests from the Authority and National Grid to establish a Public Policy Requirement driving the need for transmission additions to, among other things, enable the Authority to fully operate 2700 MW of generation from the Authority's Niagara and Lewiston Pump-Generating Plant and ensure that, under emergency conditions, no less than 1000 MW of import capacity will be available from Ontario. This order initiated the NYISO's competitive solicitation process which resulted in the NYISO Board of Directors selection of the NextEra Energy Transmission New York, Inc Empire State Line transmission project on October 17, 2017. The project is expected to be completed in June 2022.

Contacting the Authority

This financial report is designed to provide our customers and other interested parties with a general overview of the Authority's finances. If you have any questions about this report or need additional financial information, contact the New York Power Authority, 123 Main Street, White Plains, New York 10601-3107. Email: info@nypa.gov

KPMG LLP
345 Park Avenue
New York, NY 10154-0102

Independent Auditors' Report

The Board of Trustees
Power Authority of the State of New York:

Report on the Financial Statements

We have audited the accompanying consolidated financial statements of the business-type activities and fiduciary funds of the Power Authority of the State of New York (the Authority) and its blended component unit, as of and for the years ended December 31, 2018 and 2017, and the related notes to the financial statements, which collectively comprise the Authority's consolidated financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with U.S. generally accepted accounting principles; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the respective financial position of the business-type activities and fiduciary funds of the Authority and its blended component unit as of December 31, 2018 and 2017, and the respective changes in their financial position, and, where applicable their cash flows for the years then ended in accordance with U.S. generally accepted accounting principles.

KPMG LLP is a Delaware limited liability partnership and the U.S. member firm of the KPMG network of independent member firms affiliated with KPMG International Cooperative ("KPMG International"), a Swiss entity.

Emphasis of Matter

As discussed in Note 2(t) to the consolidated financial statements, in fiscal year 2018, the Authority adopted Governmental Accounting Standards Board (GASB) Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*, which provides new accounting guidance that addresses accounting and financial reporting by state and local governments for postemployment benefits other than pensions (other postemployment benefits or OPEB). Our opinion is not modified with respect to this matter.

Other Matters

Required Supplementary Information

U.S. generally accepted accounting principles require that the information in the Management's Discussion and Analysis on pages 2 through 22 and Required Supplementary Information on pages 83 through 87 be presented to supplement the consolidated financial statements. Such information, although not a part of the consolidated financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the consolidated financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the consolidated financial statements, and other knowledge we obtained during our audits of the consolidated financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Reporting Required by *Government Auditing Standards*

In accordance with *Government Auditing Standards*, we have also issued our report dated March 26, 2019 on our consideration of the Authority's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Authority's internal control over financial reporting and compliance.

KPMG LLP

New York, New York
March 26, 2019

NEW YORK POWER AUTHORITY

Consolidated Statements of Net Position

(In millions)

	December 31, 2018	December 31, 2017
Assets and Deferred Outflows		
Current Assets:		
Cash and cash equivalents	$ 7	$ 37
Investment in securities	940	1,065
Receivables - customers	180	171
Materials and supplies, at average cost:		
Plant and general	82	82
Fuel	33	27
Miscellaneous receivables and other	192	198
Total current assets	1,434	1,580
Noncurrent Assets:		
Restricted funds:		
Cash and cash equivalents	31	26
Investment in securities	30	33
Total restricted assets	61	59
Capital funds:		
Cash and cash equivalents	2	–
Investment in securities	23	25
Total capital funds	25	25
Capital Assets:		
Capital assets not being depreciated	896	758
Capital assets, net of accumulated depreciation	4,623	4,684
Total capital assets	5,519	5,442
Other Noncurrent Assets:		
Receivable - New York State	129	172
Other long-term assets	1,583	1,382
Total other noncurrent assets	1,712	1,554
Total noncurrent assets	7,317	7,080
Total assets	8,751	8,660
Deferred outflows of resources:		
Accumulated decrease in fair value of derivative hedging	1	–
Pensions	89	66
Postemployment benefits other than pensions (Note 11)	47	–
Total assets and deferred outflows of resources	$ 8,888	$ 8,726

(Continued)

NEW YORK POWER AUTHORITY

Consolidated Statements of Net Position

(In millions)

Liabilities, Deferred Inflows and Net Position	December 31, 2018	December 31, 2017
Current liabilities:		
Accounts payable and accrued liabilities	$ 424	$ 406
Short-term debt	526	485
Long-term debt due within one year	64	62
Capital lease obligation due within one year	37	31
Total current liabilities	1,051	984
Noncurrent liabilities:		
Long-term debt:		
Senior:		
Revenue bonds	653	720
Subordinated:		
Subordinated Notes	43	44
Commercial paper	5	5
Total long-term debt	701	769
Other noncurrent liabilities:		
Capital lease obligation	1,077	1,114
Disposal of spent nuclear fuel	223	219
Relicensing	244	250
Other long-term liabilities	386	303
Total other noncurrent liabilities	1,930	1,886
Total noncurrent liabilities	2,631	2,655
Total liabilities	3,682	3,639
Deferred inflows of resources:		
Cost of removal obligation	348	330
Accumulated increase in fair value of derivative hedging	7	8
Pensions	76	10
Postemployment benefits other than pensions (Note 11)	41	–
Net position:		
Net investment in capital assets	3,171	2,973
Restricted	42	32
Unrestricted	1,521	1,734
Total net position	4,734	4,739
Total liabilities, deferred inflows of resources and net position	$ 8,888	$ 8,726

See accompanying notes to the consolidated financial statements.

NEW YORK POWER AUTHORITY

Consolidated Statements of Revenues, Expenses and Changes in Net Position

(In millions)

	Year Ended December 31,	
	2018	2017
Operating revenues:		
Power sales	$ 1,812	$ 1,745
Transmission charges	202	189
Wheeling charges	654	618
Other	21	21
Total operating revenues	2,689	2,573
Operating Expenses:		
Purchased power	710	557
Fuel oil and gas	189	165
Wheeling	654	618
Operations	534	547
Maintenance	145	133
Depreciation	235	242
Impairment loss	–	73
Total operating expenses	2,467	2,335
Operating income	222	238
Nonoperating revenues and expenses:		
Nonoperating revenues:		
Investment income	21	12
Other	2	17
Total nonoperating revenues	23	29
Nonoperating expenses		
Interest on long-term debt	47	47
Interest - other	117	117
Interest capitalized	(18)	(12)
Amortization of debt premium	(3)	(4)
Total nonoperating expenses	143	148
Net income and change in net position	102	119
Net position, January 1, as restated (Note 2)	4,632	4,620
Net position, December 31	$ 4,734	$ 4,739

See accompanying notes to the consolidated financial statements.

NEW YORK POWER AUTHORITY

Consolidated Statements of Cash Flows

(In millions)

	Year Ended December 31, 2018	Year Ended December 31, 2017
Cash flows from operating activities:		
Received from customers for the sale of power, transmission and wheeling	$ 2,670	$ 2,504
Disbursements for:		
Purchased power	(712)	(556)
Fuel, oil and gas	(193)	(163)
Wheeling of power by other utilities	(647)	(626)
Operations and maintenance	(912)	(804)
Net cash provided by operating activities	206	355
Cash flows from capital and related financing activities:		
Gross additions to capital assets	(293)	(241)
Issuance of subordinated notes, series 2017	–	25
Repayment of bonds	(60)	(57)
Repayment of notes	(1)	(2)
Interest paid, net	(43)	(45)
Net cash used in capital and related financing activities	(397)	(320)
Cash flows from noncapital–related financing activities:		
Energy conservation program payments received from participants	107	154
Energy conservation program costs	(159)	(232)
Issuance of commercial paper	103	84
Repayment of commercial paper	(62)	(115)
Interest paid on commercial paper	(11)	(7)
Transmission line interconnection costs	–	26
Canal Reimbursement Agreement	–	(18)
Payment received from New York State	43	43
Margin deposits	4	(20)
NYISO collateral	(12)	(7)
Payments related to nuclear decommissioning fund transfer	–	8
Net cash provided by (used in) noncapital-related financing activities	13	(84)
Cash flows from investing activities:		
Earnings received on investments	19	17
Purchase of investment securities	(3,005)	(4,460)
Sale of investment securities	3,141	4,482
Net cash provided by investing activities	155	39
Net decrease in cash	(23)	(10)
Cash and cash equivalents, January 1	63	73
Cash and cash equivalents, December 31	$ 40	$ 63
Reconciliation to net cash provided by operating activities:		
Operating income	$ 222	$ 238
Adjustments to reconcile operating income to net cash provided by operating activities:		
Change in assets, deferred outflows, liabilities and deferred inflows:		
Provision for depreciation	235	242
Net increase in miscellaneous receivables and other	(151)	(53)
Net increase in receivables and materials and supplies	(36)	(61)
Net decrease in accounts payable/accrued liabilities and other	(64)	(11)
Net cash provided by operating activities	$ 206	$ 355

See accompanying notes to the consolidated financial statements.

NEW YORK POWER AUTHORITY

Statements of Fiduciary Net Position

(In millions)

	December 31, 2018	December 31, 2017
Assets		
Assets:		
Cash and cash equivalents	$ 13	$ 16
Receivables:		
Due from broker for investments sold	1	–
Investment income	1	1
Total receivables	2	1
Investments at fair value:		
Domestic equity	297	319
International equity	84	96
Real Estate (REIT)	31	33
Fixed Income	145	146
Total investments	557	594
Total assets	572	611
Liabilities:		
Payables:		
Due to broker for investments purchased	7	8
Total liabilities	7	8
Net position available for postemployment benefits other than pensions	$ 565	$ 603

See accompanying notes to the consolidated financial statements.

NEW YORK POWER AUTHORITY

Statements of Changes in Fiduciary Net Position

(In millions)

	Year Ended December 31,	
	2018	2017
Additions:		
Employer contributions	$ 25	$ 22
Investment income:		
Net increase / (decrease) in fair value of investments	(45)	79
Interest and dividend income	9	9
Less: investment expense	(2)	(2)
Net investment income / (loss)	(38)	86
Total additions	(13)	108
Deductions::		
Benefits payments	25	22
Total deductions	25	22
Changes in net position	(38)	86
Net position available for postemployment benefits other than pensions – beginning of year	603	517
Net position available for postemployment benefits other than pensions – end of year	$ 565	$ 603

See accompanying notes to the consolidated financial statements.

(1) General

The Power Authority of the State of New York (the Power Authority), doing business as The New York Power Authority, is a corporate municipal instrumentality and political subdivision of the State of New York (State) created in 1931 by Title 1 of Article 5 of the Public Authorities Law, Chapter 43-A of the Consolidated Laws of the State, as amended (Power Authority Act or Act).

The Power Authority's mission is to power the economic growth and competitiveness of the State by providing customers with low-cost, clean, reliable power and the innovative energy infrastructure and services they value. The Authority's financial performance goal is to have the resources necessary to achieve its mission, to maximize opportunities to serve its customers better and to preserve its strong credit rating.

The Power Authority is authorized by the Power Authority Act to help provide a continuous and adequate supply of dependable electricity to the people of the State. The Power Authority generates, transmits and sells electricity principally at wholesale. The Power Authority's primary customers are municipal and investor-owned utilities, rural electric cooperatives, high load factor industries and other businesses located throughout New York State, various public corporations located in Southeastern New York within the metropolitan area of New York City (SENY Governmental Customers), and certain out-of-state customers.

To provide electric service, the Power Authority owns and operates five major generating facilities, eleven small gas-fired electric generating facilities, and four small hydroelectric facilities in addition to a number of transmission lines, including major 765-kV and 345-kV transmission facilities. The Power Authority's five major generating facilities consist of two large hydroelectric facilities (Niagara and St. Lawrence-FDR), a large pumped-storage hydroelectric facility (Blenheim-Gilboa), the combined cycle electric generating plant located in Queens, New York (500-MW Plant) and the Richard M. Flynn combined cycle plant located on Long Island (Flynn). To provide additional electric generation capacity to the Authority's NYC Governmental Customers, the Authority entered into a long-term electricity supply agreement with Astoria Energy II LLC in 2008 for the purchase of the output of an Astoria, Queens based natural-gas fueled 550-MW generating plant, which entered service in the summer of 2011.

The Power Authority acts through a Board of Trustees. The Power Authority's Trustees are appointed by the Governor of the State of New York, with the advice and consent of the State Senate. The Power Authority is a fiscally independent public corporation that does not receive State funds or tax revenues or credits. It generally finances construction of new projects through a combination of internally generated funds and sales of bonds and notes to investors and pays related debt service with revenues from the generation and transmission of electricity. Accordingly, the financial condition of the Authority is not controlled by or dependent on the State or any political subdivision of the State. Under the criteria set forth in Governmental Accounting Standards Board (GASB) the Authority considers its relationship to the State to be that of a related organization.

Income of the Power Authority and properties acquired by it for its projects are exempt from taxation. However, the Authority is authorized by the Act to enter into agreements to make payments in lieu of taxes with respect to property acquired for any project where such payments are based solely on the value of the real property without regard to any improvement thereon by the Authority and where no bonds to pay any costs of such project were issued prior to January 1, 1972.

Article XV of the New York State Constitution provides, in part, that the barge canal, the divisions of which are the Erie canal, the Oswego canal, the Champlain canal, and the Cayuga-Seneca canal, and the terminals constructed as part of the barge canal system (collectively, the "Canal System") shall remain the property of the State and under its management and control forever. Legislation enacted in 1992 (the "1992 Legislation") transferred jurisdiction of the Canal System, among other assets and properties, from the New York State Commissioner of Transportation to the Thruway Authority, to be held by the New York Thruway Authority (the "Thruway Authority") in the name of the people of the State. Such canal system remained the property of the

State and under its management and control as exercised by and through the Thruway Authority, through its then newly created subsidiary, the New York State Canal Corporation (the "Canal Corporation"). The 1992 Legislation deemed the Canal Corporation to be the State for the purposes of such management and control of the canals but for no other purposes.

Legislation was enacted on April 4, 2016 (the "Canal Transfer Legislation") which provided for (1) the transfer, effective January 1, 2017, of the New York State Canal Corporation (Canal Corporation) from the New York State Thruway Authority (Thruway Authority) to the Power Authority and (2) as of January 1, 2017, the Power Authority's assumption from the Thruway Authority of powers and duties relating to the Canal System, and jurisdiction over the Canal System and state assets, equipment and property in connection with the planning, development, construction, reconstruction, maintenance and operation of the Canal System, which the Power Authority is authorized to exercise through the Canal Corporation. The Canal Corporation is responsible for a 524-mile Canal System consisting of the Erie, Champlain, Oswego and Cayuga-Seneca canals and the terminals constructed as part of the barge canal system (the "Canal System").

(2) Summary of Significant Accounting Policies

Significant accounting policies include the following:

(a) *Basis of Reporting*

The operations of the Power Authority and its subsidiary, the Canal Corporation, are presented as an enterprise fund following the accrual basis of accounting in order to recognize the flow of economic resources. Accordingly, revenues are recognized in the period in which they are earned and expenses are recognized in the period in which they are incurred. The accounts and transactions of the Canal Corporation are included in the consolidated financial statements and notes to the consolidated financial statements. All significant transactions between the Power Authority and the Canal Corporation have been eliminated. The Power Authority and its blended component unit are referred to collectively as the "Authority" in the consolidated financial statements, except where noted.

The Authority complies with all applicable pronouncements of the Governmental Accounting Standards Board (GASB). In accordance with Governmental Accounting Standards (GAS) Statement No. 62, *Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 FASB and AICPA Pronouncements,* (GAS No. 62) the Authority applies all authoritative pronouncements applicable to nongovernmental entities (i.e., Accounting Standards Codification (ASC) of the Financial Accounting Standards Board) that do not conflict with GASB pronouncements.

(b) *Regulatory Accounting*

The Power Authority's Board of Trustees has broad rate setting authority for its power sales agreements with customers. The sale of transmission service over the Power Authority's facilities is provided pursuant to New York Independent System Operator (NYISO) tariffs and under contracts that pre-dated existence of the NYISO. The Power Authority files its transmission system revenue requirement with the Federal Energy Regulatory Commission (FERC) for inclusion in the NYISO's open access tariff.

The Authority accounts for its regulated operations under the provisions of GAS No. 62, *Codification of Accounting and Financial Reporting Guidance Contained in Pre November 30, 1989 FASB and AICPA Pronouncements*, paragraphs 476-500. These provisions recognize the economic ability of regulators, through the ratemaking process, to create future economic benefits and obligations affecting rate-regulated entities. Accordingly, the Authority records these future economic benefits and obligations as regulatory assets and regulatory liabilities, respectively. Regulatory assets represent probable future revenues associated with previously incurred costs that are expected to be recovered from customers. Regulatory

liabilities represent amounts that are collected from customers through the ratemaking process associated with costs to be incurred in future periods. Based on the action of the Board of Trustees, the Authority believes the future collection of the costs held over through regulatory assets is probable. For regulatory assets see Note 2(l) "Summary of Accounting Polices – Other Long-Term Assets" of the notes to the consolidated financial statements.

(c) *Estimates*

The preparation of consolidated financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

(d) *Capital Assets*

Capital assets are recorded at original cost and consist of amounts expended for labor, materials, services and indirect costs to license, construct, acquire, complete and place in operation the projects of the Authority. Interest on amounts borrowed to finance construction of the Authority's projects is charged to the project prior to completion. Borrowed funds for a specific construction project are deposited in a capital fund account. Earnings on fund investments are held in this fund to be used for construction. Earnings on unexpended funds are credited to the cost of the related project (construction work in progress) until completion of that project. Construction work in progress costs are reduced by revenues received for power produced (net of expenditures incurred in operating the projects) prior to the date of completion. The costs of current repairs are charged to operating expense, and renewals and betterments are capitalized. The cost of capital assets retired less salvage is charged to accumulated depreciation. Depreciation of capital assets is generally provided on a straight-line basis over the estimated lives of the various classes of capital assets.

The related depreciation provisions at December 31, 2018 and 2017 expressed as a percentage of average depreciable capital assets on an annual basis are:

	Average depreciation rate	
	2018	**2017**
Type of plant:		
Production:		
Hydro	2.0%	2.0%
Gas turbine/combined cycle	2.1	2.4
Transmission	1.9	2.0
General	3.2	3.2
Canal system	3.3	3.3
	2.5%	2.6%

(e) *Asset Retirement and Cost of Removal Obligations*

The Authority applies the applicable provisions of ASC Topic 410, *Asset Retirement and Environmental Obligations,* which requires an entity to record a liability at fair value to recognize legal obligations for asset retirements in the period incurred and to capitalize the cost by increasing the carrying amount of the related long-lived asset. The Authority determined that it had legal liabilities for the retirement of certain Small Clean Power Plants (SCPPs) in New York City and, accordingly, has recorded a liability for the retirement of these assets. In connection with these legal obligations, the Authority has also recognized a liability for the remediation of certain contaminated soils discovered during the construction process.

ASC Topic 410 does not apply to asset retirement obligations involving pollution remediation obligations that are within the scope of GAS No. 49, *Accounting and Financial Reporting for Pollution Remediation Obligations*. The Authority applies GAS No. 49 which, upon the occurrence of any one of five specified obligating events, requires an entity to estimate the components of expected pollution remediation outlays and determine whether outlays for those components should be accrued as a liability or, if appropriate, capitalized when goods and services are acquired. The Authority had no liabilities recorded related to GAS No. 49 at December 31, 2018 or 2017.

In addition to asset retirement obligations, the Authority has other cost of removal obligations that are being collected from customers and accounted for under the provisions of GAS Statement No. 62, *Codification of Accounting and Financial Reporting Guidance Contained in Pre November 30, 1989 FASB and AICPA Pronouncements*, paragraphs 476-500. These cost of removal obligations are reflected in deferred inflows of resources in the statements of net position.

Asset retirement obligations (ARO) amounts included in other noncurrent liabilities and cost of removal obligation amounts included in deferred inflows are as follows:

	ARO amounts	Cost of removal obligation
	(In millions)	
Balance – December 31, 2017	$ 53	$ 330
Depreciation Expense	–	14
Other expense	–	4
Balance – December 31, 2018	$ 53	$ 348

(f) *Long-Lived Assets*

The Authority applies GAS No. 42, *Accounting and Financial Reporting for Impairment of Capital Assets and for Insurance Recoveries*, which states that asset impairments are generally recognized only when the service utility of an asset is reduced or physically impaired.

GAS No. 42 states that asset impairment is a significant, unexpected decline in the service utility of a capital asset. The service utility of a capital asset is the usable capacity that at acquisition was expected to be used to provide service, as distinguished from the level of utilization which is the portion of the usable capacity currently being used. Decreases in utilization and existence of or increases in surplus capacity that are not associated with a decline in service utility are not considered to be impairments. In 2017, the Authority incurred an impairment loss of $73 million, which consisted of $62 million in capital assets and $11 million of equipment in materials and supplies, related to the planned replacement of certain combustion turbine equipment with technically superior upgraded components (see note 5 of notes to the consolidated financial statements).

(g) *Cash, Cash Equivalents and Investments*

Cash includes cash and cash equivalents and short-term investments with maturities, when purchased, of three months or less. The Authority accounts for investments at their fair value. Fair value is determined using quoted market prices. Investment income includes changes in the fair value of these investments. Realized and unrealized gains and losses on investments are recognized as investment income in accordance

with GAS No. 31, *Accounting and Financial Reporting for Certain Investments and for External Investment Pools*.

(h) *Derivative Instruments*

The Authority uses financial derivative instruments to manage the impact of energy and capacity price, fuel cost changes and interest rate when applicable, on its earnings and cash flows. The Authority recognizes the fair value of all financial derivative instruments as either an asset or liability on its statements of net position with the offsetting gains or losses recognized in earnings or deferred charges. The Authority applies GAS No. 53, *Accounting and Financial Reporting for Derivative Instruments*, which establishes accounting and reporting requirements for derivative instruments (see Note 8 "Risk Management and Hedging Activities" of the notes to the consolidated financial statements).

(i) *Accounts Receivable*

Accounts receivable are classified as current assets and are reported net of an allowance for uncollectible amounts.

(j) *Materials and Supply Inventory*

Material and supplies are valued at weighted average cost and are charged to expense during the period in which the material or supplies are used.

(k) *Debt Refinancing Charges*

Debt refinancing charges, representing the difference between the reacquisition price and the net carrying value of the debt refinanced, are amortized using the interest method over the life of the new debt or the old debt, whichever is shorter, in accordance with GAS No. 23, *Accounting and Financial Reporting for Refundings of Debt Reported by Proprietary Activities.*

(l) *Other Long-Term Assets*

Other long-term assets at December 31, 2018 and 2017 consist of the following:

	December 31,	
	2018	**2017**
	(In millions)	
Other long-term assets:		
Regulatory assets (a):		
Recoverable electricity supply market costs	$ 338	$ 320
Other regulatory assets	15	21
Total regulatory assets	353	341
Energy efficiency program costs (b)	439	400
Other long-term receivables	367	291
Transmission line interconnection costs	256	274
Other postemployment employee benefits	43	–
Other	125	76
Total other long-term assets	$ 1,583	$ 1,382

(a) Regulatory assets reflect previously incurred costs that are expected to be recovered from customers through the ratemaking process.

(b) Energy efficiency program costs will be recovered from certain customers through the terms of contracts.

On October 24, 2017, a Memorandum of Understanding was entered between the Authority and ten investor owned utility companies to provide Hurricane Relief assistance in Puerto Rico. The Authority's deployment cost associated with the assistance efforts are subject to reimbursement by the Emergency Management Assistant Compact (EMAC) program. As of December 31, 2018, the related costs are included in other long-term assets in the consolidated statements of net position.

(m) *Compensated Absences*

The Authority accrues the cost of unused sick leave which is payable upon the retirement of its employees. The Authority has accrued $34 million and $32 million in other non-current liabilities at December 31, 2018 and 2017, respectively, and $6 million at December 31, 2018 and 2017, in current on the statements of net position. The current year's cost is accounted for as a current operating expense in the statements of revenues, expenses, and changes in net position.

(n) *Net Position*

Net Position represents the difference between assets plus deferred outflows and liabilities plus deferred inflows and is classified into three components:

a. Net investment in capital assets – This consists of capital assets, net of depreciation reduced by related outstanding debt and accounts. This indicates that these assets are not accessible for other purposes.

b. Restricted – This represents restricted assets reduced by related liabilities and deferred inflows of resources that are not accessible for general use because their use is subject to restrictions enforceable by third parties.

c. Unrestricted – This represents the net amount of assets, deferred outflows of resources, liabilities and deferred inflows of resources that are not included in the components noted above and that are available for general use.

(o) *New York Independent System Operator (NYISO)*

The Power Authority is a member and a customer of the New York Independent System Operator (NYISO). The NYISO schedules the use of the bulk transmission system in the State, which normally includes all the Power Authority's transmission facilities, and collects ancillary services, losses and congestion fees from customers. In addition, the Power Authority dispatches power from its generating facilities in conjunction with the NYISO. The NYISO coordinates the reliable dispatch of power and operates a market for the sale of electricity and ancillary services within the State.

Based upon the Power Authority's scheduled customer power needs and available electricity generated by the Power Authority's operating assets, the Authority buys and sells energy in an electricity market operated by the NYISO. A significant amount of the Power Authority's energy and capacity revenues result from sales of the Power Authority's generation into the NYISO market. A significant amount of the Power Authority's operating expenses consist of various NYISO purchased power charges in combination with generation related fuel expenses.

(p) *Operating Revenues*

The customers served by the Power Authority and the rates paid by such customers vary with the Power Authority facilities designated to serve such loads. These customers are served under contracts and tariffs approved by the Trustees.

The principal operating revenues are generated from the sale, transmission, and wheeling of power. Revenues are recorded when power is delivered or service is provided. Customers' meters are read, and bills are rendered, monthly. Wheeling charges are for costs the Authority incurred for the transmission and/or delivery of power and energy to customers over transmission lines owned by other utilities. Sales to the Authority's five largest customers operating in the State accounted for approximately 47% and 49% of the Authority's operating revenues in 2018 and 2017, respectively.

In addition to contractual sales to customers, the Power Authority also sells power into an electricity market operated by the NYISO. These sales are affected by market prices and are not subject to rate regulation by the Power Authority's Board of Trustees or other regulatory bodies. Accordingly, the Power Authority does not apply the provisions of GAS No. 62, *Codification of Accounting and Financial Reporting Guidance Contained in Pre November 30, 1989 FASB and AICPA Pronouncements*, paragraphs 476-500 to these transactions.

(q) *Operating Expenses*

The Authority's operating expenses include fuel, operations and maintenance, depreciation, purchased power costs, and other expenses related to the sale of power. Energy costs are charged to expense as incurred.

Purchased power costs include capacity, energy and ancillary service purchases made in the wholesale market on behalf of its customers (except for those made through previously approved purchased power agreements). Wheeling expenses are based on contractual and/or tariff rates of the service provider and are recovered through pass-through provisions in customer contracts.

(r) *Pension Plans*

The Authority is a cost-sharing employer that participates in the New York State and Local Employees' Retirement System (NYSLERS), which is a cost-sharing multiple-employer plan in which the participating government employers pool their assets and their obligations to provide defined benefit pensions. The plan assets of this type of plan can be used to pay the pensions of the retirees of any participating employer. The amounts reported by the Authority for its proportionate share of the net pension liability, pension expense and deferred outflows and deferred inflows have been provided by the New York State and Local Employees' Retirement System to employers participating in the NYSLERS in accordance with Statement No. 68, *Accounting and Financial Reporting for Pensions*, and have been determined on the same basis as reported by the NYSLERS. See Note 10 "Pension Plans" of the notes to the consolidated financial statements.

(s) *Postemployment Benefits Other Than Pensions (OPEB)*

The Power Authority provides certain health care and life insurance benefits for eligible retired employees and their dependents under a single employer noncontributory (except for certain optional life insurance coverage) health care plan (Power Authority OPEB Plan). The Power Authority has an established trust for its OPEB obligations (OPEB Trust) that is a separate entity from the Power Authority held by an independent custodian for the exclusive benefit of the OPEB Trust beneficiaries and not of the Power Authority. The ownership of the OPEB Trust assets are held by the independent custodian at all times and the OPEB Trust assets are not considered funds or assets of the Power Authority for any purpose. All of the OPEB Trust assets are irrevocably dedicated to, and are used for the exclusive purpose of, making payments of benefits to or for the benefit of the Power Authority OPEB Plan beneficiaries and for paying administrative expenses of the Power Authority OPEB Plan and the OPEB Trust and will not be available to any creditors of the Power Authority. The OPEB Trust does not issue a stand-alone financial report and its financial statements are reported as a fiduciary fund in the Authority's financial report.

The Power Authority's net OPEB liability was measured as of December 31, 2017, and the total OPEB liability used to calculate the net OPEB liability was determined by an actuarial valuation as of that date. For purposes of measuring the net OPEB liability, deferred outflows of resources and deferred inflows of resources related to OPEB, and OPEB expenses, information about the fiduciary net position of the OPEB Trust and additions to/deductions from OPEB Trust's fiduciary net position have been determined on the same basis as they are reported by the Power Authority OPEB Plan as of the same measurement date. For this purpose the Power Authority OPEB Plan recognizes benefit payments when due and payable in accordance with the benefit terms. Investments are reported at fair value, except investments that have a maturity at the time of purchase of one year or less, which are reported at cost.

(t) *New Accounting Pronouncements*

In 2018, the Authority adopted the GASB issued GAS Statement No. 75 (GAS No. 75), *Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions*, This statement requires governments that provide other postemployment benefits (OPEB) to their employees to recognize their unfunded accrued other postemployment benefits (OPEB) obligation in their financial statements. See Note 11 "Postemployment Benefits Other Than Pension Plans, Deferred Compensation and Savings" of the notes to the consolidated financial statements.

The following details the restatement to net position as a result of the adoption of GAS No. 75.

	Year Ended December 31,	
	2018	2017
	(In millions)	
Net position, January 1	$ 4,739	$ 4,620
Adoption of GAS No. 75	(107)	–
Net position, January 1, as restated	$ 4,632	$ 4,620

GASB issued GAS Statement No. 84 (GAS No. 84), *Fiduciary Activities*, which is effective for reporting periods beginning after December 15, 2018. GAS No. 84 addresses criteria for identifying activities of all state and local governments. The focus of the criteria is generally on (1) whether a government is controlling the assets of the fiduciary activity and (2) the beneficiaries with whom a fiduciary relationship exits. Separate criteria are included to identify fiduciary component units and postemployment benefit arrangements that are fiduciary activities. Activities meeting this criteria should present a statement of fiduciary net position and a statement of changes in fiduciary net position. In 2018, the Authority applied the GAS No. 84 criteria as it relates to the fiduciary activities of its postemployment benefits other than pensions arrangements.

GASB issued GAS Statement No. 87 (GAS No. 87), *Leases*, which is effective for reporting periods beginning after December 15, 2019. GAS No. 87 requires recognition of certain lease assets and liabilities for leases that previously were classified as operating leases and recognized as inflows or outflows of resources based on payment provisions of the contract. It establishes a single model for lease accounting based on the foundational principle that leases are financings of the right-to-use an underlying asset. Under GAS No. 87, a lessee is required to recognize a lease liability and an intangible right-to-use lease asset, and a lessor is required to recognize a lease receivable and a deferred inflow of resources. The Authority is evaluating the impact of GAS No. 87 on its consolidated financial statements.

GASB issued GAS Statement No. 88, *Certain Disclosures Related to Debt, Including Direct Borrowings and Direct Placements*, which is effective for reporting periods beginning after June 15, 2018. GAS Statement No. 88 addresses improvement of the information that is disclosed in notes to government

financial statements related to debt, including direct borrowings and direct placements. GAS Statement No. 88 requires that additional essential information related to debt be disclosed in notes to financial statements, including unused lines of credit; assets pledged as collateral for the debt; and terms specified in debt agreements related to significant events of default with finance-related consequences, significant termination events with finance-related consequences, and significant subjective acceleration clauses. The Authority is evaluating the impact of GAS No. 88 on its consolidated financial statements.

GASB issued GAS Statement No. 89 (GAS No. 89), *Accounting for Interest Cost Incurred Before the End of a Construction Period*, which is effective for reporting periods beginning after December 15, 2019 and will be applied prospectively. GAS No. 89 addresses (1) enhancement of the relevance and comparability of information about capital assets and the cost of borrowing for a reporting period and (2) simplifies accounting for interest cost incurred before the end of a construction period. GAS No. 89 requires that interest cost incurred before the end of a construction period be recognized as an expense in the period in which the cost is incurred for financial statements prepared using the economic resources measurement focus. As a result, interest cost incurred before the end of a construction period will not be included in the historical cost of a capital asset reported in a business-type activity or enterprise fund. The Authority is evaluating the impact of GAS No. 89 on its consolidated financial statements.

GASB issued GAS Statement No. 90 (GAS No. 90), *Majority Equity Interests—An Amendment of GASB Statements No. 14 and No. 61,* which is effective for reporting periods beginning after December 15, 2018. The requirements should be applied retroactively, except for the provisions related to (1) reporting a majority equity interest in a component unit and (2) reporting a component unit if the government acquires 100 percent equity interest which should be applied on a prospective basis. GAS No. 90 addresses (1) a majority equity interest and specifies that a majority interest in a legally separate organization should be reported as an investment, using the equity method, if a government's holding of the equity interest meets the definition of an investment, (2) special-purpose governments engaged only in fiduciary activities, a fiduciary fund or an endowment/permanent fund should measure the majority equity interest at fair instead of the equity method and (3) all other holdings of a majority interest in a legally separate organization, not meeting the definition of an investment, should report the legally separate organization as a component unit using the equity. The Authority is evaluating the impact of GAS No. 90 on its consolidated financial statements.

(3) Bond Resolution

On February 24, 1998, the Authority adopted its "General Resolution Authorizing Revenue Obligations" (as amended and supplemented up to the present time, the Bond Resolution). The Bond Resolution covers all of the Authority's projects, which it defines as any project, facility, system, equipment or material related to or necessary or desirable in connection with the generation, production, transportation, transmission, distribution, delivery, storage, conservation, purchase or use of energy or fuel, whether owned jointly or singly by the Authority, including any output in which the Authority has an interest authorized by the Act or by other applicable State statutory provisions, provided, however, that the term "Project" shall not include any Separately Financed Project as that term is defined in the Bond Resolution. The Authority has covenanted with bondholders under the Bond Resolution that at all times the Authority shall maintain rates, fees or charges, and any contracts entered into by the Authority for the sale, transmission, or distribution of power shall contain rates, fees or charges sufficient together with other monies available therefor (including the anticipated receipt of proceeds of sale of Obligations, as defined in the Bond Resolution, issued under the Bond Resolution or other bonds, notes or other obligations or evidences of indebtedness of the Authority that will be used to pay the principal of Obligations issued under the Bond Resolution in anticipation of such receipt, but not including any anticipated or actual proceeds from the sale of any Project), to meet the financial requirements of the Bond Resolution. Revenues of the Authority (after deductions for operating expenses and reserves, including reserves for working capital, operating expenses or compliance purposes) are applied first to the payment of, or accumulation as a reserve for payment of, interest on and the

principal or redemption price of Obligations issued under the Bond Resolution and the payment of Parity Debt issued under the Bond Resolution.

The Bond Resolution also provides for withdrawal for any lawful corporate purpose as determined by the Authority, including but not limited to the retirement of Obligations issued under the Bond Resolution, from amounts in the Operating Fund in excess of the operating expenses, debt service on Obligations and Parity Debt issued under the Bond Resolution, and subordinated debt service requirements.

(4) Cash and Investments

Investment of the Authority's funds is administered in accordance with the applicable provisions of the Bond Resolution and with the Authority's investment guidelines. These guidelines comply with the New York State Comptroller's investment guidelines for public authorities and were adopted pursuant to Section 2925 of the New York Public Authorities Law.

(a) *Credit Risk*

The Authority's investments are restricted to (a) collateralized certificates of deposit, (b) direct obligations of or obligations guaranteed by the United States of America or the State of New York, (c) obligations issued or guaranteed by certain specified federal agencies and any agency controlled by or supervised by and acting as an instrumentality of the United States government, and (d) obligations of any state or any political subdivision thereof or any agency, instrumentality or local government unit of any such state or political subdivision which is rated in any of the three highest long-term rating categories, or the highest short-term rating category, by nationally recognized rating agencies. The Authority's investments in the debt securities of Federal National Mortgage Association (FNMA), Federal Home Loan Bank (FHLB), Federal Farm Credit Bank (FFCB) and Federal Home Loan Mortgage Corp. (FHLMC) were rated Aaa by Moody's Investors Services (Moody's), AAA by Fitch Ratings (Fitch) and AA+ by Standard & Poor's (S&P).

(b) *Interest Rate Risk*

Securities that are the subject of repurchase agreements must have a market value at least equal to the cost of the investment. The agreements are limited to a maximum fixed term of five business days and may not exceed the greater of 5% of the investment portfolio or $100 million. The Authority has no other policies limiting investment maturities.

(c) *Concentration of Credit Risk*

There is no limit on the amount that the Authority may invest in any one issuer; however, investments in authorized certificates of deposit shall not exceed 25% of the Authority's invested funds. At December 31, 2018, the Authority's total investment portfolio of $1,022 million included investments of $367 million (36%), $169 million (16%), $160 million (16%) $147 million (14%) and $16 million (2%), $134 (13%) in securities of FHLB, FNMA, FFCB, FHLMC, U.S. government and other various municipal debt securities, respectively.

At December 31, 2017, the Authority's total investment portfolio of $1,178 million included investments of $379 million (32%), $291 million (25%), $200 million (17%) and $148 million (13%) and $105 million (9%) in securities of FHLB, FNMA, FHLMC and FFCB and other various municipal debt securities, respectively.

(d) *Other*

All investments are held by designated custodians in the name of the Authority. The bank balances at December 31, 2018 and 2017 were $33 million and $58 million, respectively, of which $32 million and

$57 million, respectively, were uninsured, but were collateralized by assets held by the bank in the name of the Authority. As of December 31, 2018, the Authority had no investments in repurchase agreements.

Cash and Investments of the Authority at December 31, 2018 and 2017 are as follows:

			Restricted			
December 31, 2018	Total	Total restricted	Canal Development Fund	WNYEDF, POCR, projects and other	Capital fund	Unrestricted
			(In millions)			
Cash and investments:						
Cash and cash equivalents	$ 40	31	11	20	2	7
U.S. government:						
U.S. Treasury bills	10	—	—	—	10	—
U.S. Treasury notes	6	6	—	6	—	—
	16	6	—	6	10	—
Other debt securities:						
FNMA	169	—	—	—	—	169
FHLMC	147	4	—	4	6	137
FHLB	367	20	—	20	1	346
FFCB	160	—	—	—	2	158
All other	134	—	—	—	4	130
	977	24	—	24	13	940
Total investments	993	30	—	30	23	940
Total cash and investments	$ 1,033	61	11	50	25	947
Summary of maturities (years):						
0 – 1	$ 352	61	11	50	21	270
1 – 5	659	—	—	—	4	655
5 – 10	13	—	—	—	—	13
10+	9	—	—	—	—	9
	$ 1,033	61	11	50	25	947

Petroleum Overcharge Restitution (POCR) Funds – Legislation enacted into State law from 1995 to 2002, 2007 and 2008 authorized the Authority to utilize petroleum overcharge restitution (POCR) funds and other State funds (Other State Funds), to be made available to the Authority by the State pursuant to the legislation, for a variety of energy-related purposes, with certain funding limitations. The legislation also states that the Authority "shall transfer" equivalent amounts of money to the State prior to dates specified in the legislation. The use of POCR funds is subject to comprehensive Federal regulations and judicial orders, including restrictions on the type of projects that can be financed with POCR funds, the use of funds recovered from such projects and the use of interest and income generated by such funds and projects. Pursuant to the legislation, the Authority is utilizing POCR funds and the Other State Funds to implement various energy services programs that have received all necessary approvals.

The disbursements of the POCR funds and the Other State Funds to the Authority, and the Authority's transfers to the State totaling $60.9 million, took place from 1996 to 2009. The POCR funds are included

in restricted funds in the statements of net position. The funds are held in a separate escrow account until they are utilized.

As of December 31, 2018, restricted funds include the POCR fund ($7 million), the Lower Manhattan Energy Independence Initiative fund ($6 million) and the Fish & Wildlife Habitat Enhancement fund related to the Niagara relicensing ($14 million), the Western New York Economic Development Fund ($11 million), the Northern New York Economic Development Fund ($4 million) (see Note 13(a) "Commitments and Contingencies – Power Programs"), Canal Development Fund ($11 million) and other ($8 million).

			Restricted			
December 31, 2017	**Total**	**Total restricted**	**Canal Development Fund**	**WNYEDF, POCR, projects and other**	**Capital fund**	**Unrestricted**
			(In millions)			
Cash and investments:						
Cash and cash equivalents	$ 63	26	8	18	—	37
Other debt securities:						
FNMA	291	2	—	2	—	289
FHLMC	200	30	—	30	11	159
FHLB	379	1	—	1	10	368
FFCB	148	—	—	—	—	148
All other	105	—	—	—	4	101
	1,123	33	—	33	25	1,065
Total investments	1,123	33	—	33	25	1,065
Total cash and investments	$ 1,186	59	8	51	25	1,102
Summary of maturities (years):						
0 – 1	$ 394	59	8	51	25	310
1 – 5	792	—	—	—	—	792
	$ 1,186	59	8	51	25	1,102

As of December 31, 2017, restricted funds include the POCR fund ($9 million), the Lower Manhattan Energy Independence Initiative fund ($6 million) and the Fish & Wildlife Habitat Enhancement fund related to the Niagara relicensing ($13 million), the Western New York Economic Development Fund ($13 million), the Northern New York Economic Development Fund ($3 million) (see Note 13(a) "Commitments and Contingencies – Power Programs") and other ($8 million).

(5) Capital Assets

The following schedule summarizes the capital assets activity of the Authority for the year ended December 31, 2018.

	Beginning balance	Additions	Retirements/ Transfers	Ending balance
	(In millions)			
Capital assets, not being depreciated:				
Land	$ 193	—	—	$ 193
Construction in progress	565	295	(157)	703
Total capital assets not being depreciated	758	295	(157)	896
Capital assets, being depreciated:				
Production – Hydro	2,101	18	(5)	2,114
Production – Gas turbine/combined cycle	2,378	8	—	2,386
Transmission	2,193	38	(3)	2,228
General	1,155	85	(42)	1,198
Canal System	712	13	(2)	723
Total capital assets being depreciated	8,539	162	(52)	8,649
Less accumulated depreciation for:				
Production – Hydro	832	35	(5)	862
Production – Gas turbine/combined cycle	1,172	88	—	1,260
Transmission	1,269	38	(3)	1,304
General	417	39	(43)	413
Canal System	165	24	(2)	187
Total accumulated depreciation	3,855	224	(53)	4,026
Net value of capital assets, being depreciated	4,684	(62)	1	4,623
Net value of all capital assets	$ 5,442	233	(156)	$ 5,519

The following schedule summarizes the capital assets activity of the Authority for the year ended December 31, 2017.

	Beginning balance	Additions	Retirements/ Transfers	Ending balance
		(In millions)		
Capital assets, not being depreciated:				
Land	$ 164	29	—	$ 193
Construction in progress	348	315	(98)	565
Total capital assets not being depreciated	512	344	(98)	758
Capital assets, being depreciated:				
Production – Hydro	2,067	34	—	2,101
Production – Gas turbine/combined cycle	2,440	—	(62) (a)	2,378
Transmission	2,163	30	—	2,193
General	1,333	26	(204)	1,155
Canal System	—	712	—	712
Total capital assets being depreciated	8,003	802	(266)	8,539
Less accumulated depreciation for:				
Production – Hydro	797	35	—	832
Production – Gas turbine/combined cycle	1,082	90	—	1,172
Transmission	1,229	40	—	1,269
General	582	40	(205)	417
Canal System	—	165	—	165
Total accumulated depreciation	3,690	370	(205)	3,855
Net value of capital assets, being depreciated	4,313	432	(61)	4,684
Net value of all capital assets	$ 4,825	776	(159)	$ 5,442

(a) In 2017, the Authority incurred an impairment loss of $73 million, which consisted of $62 million in capital assets and $11 million of equipment in materials and supplies, related to the replacement of certain combustion turbine equipment with technically superior upgraded components.

(6) Long-Term Debt

a. Components

	Amount					Earliest redemption date prior to maturity
	2018	2017	Interest rate	Maturity		
	(In millions)					
Senior debt:						
Revenue Bonds (Tax-Exempt):						
Series 2007 A Revenue Bonds:						
Term Bonds	$ 82	$ 82	4.5% to 5.0%	11/15/2047	**	Any date
Series 2007 C Revenue Bonds:						
Serial Bonds	110	144	4.0% to 5.0%	11/15/2019 to 2021		Any date
Series 2011 A Revenue Bonds:						
Serial Bonds	59	60	3.0% to 5.0%	11/15/2019 to 2031	*	11/15/2021
Term Bonds	39	39	4.0% to 5.0%	11/15/2038	**	11/15/2021
Series 2015 A Revenue Bonds:						
Serial Bonds	29	43	2.0% to 5.0%	11/15/2019 to 2020		N/A
Revenue Bonds (Taxable):						
Series 2003 A Revenue Bonds:						
Term Bonds	156	163	5.230% to 5.749%	11/15/2019 to 2033	**	Any date
Series 2007 B Revenue Bonds:						
Term Bonds	235	239	5.905% to 5.985%	11/15/2037 and 2043	**	Any date
	710	770				
Plus unamortized premium and discount	12	16				
Less deferred refinancing costs	6	6				
	716	780				
Less due in one year	63	60				
Long-term senior debt, net of due in one year	$ 653	$ 720				

* $26.4 million due 2022 is non-callable.

** Bonds are subject to sinking fund provisions.

	Amount				Earliest redemption date prior to maturity
	2018	2017	Interest rate	Maturity	
	(In millions)				
Subordinate debt:					
Subordinated Notes, Series 2017	$ 24	$ 25	2.61% to 4.27%	2022 to 2041	N/A
Subordinated Notes, Series 2012	20	21	1.70% to 4.05%	2019 to 2037	
Commercial Paper:					
EMCP (Series 1)	5	5	1.00%	2021	
	49	51			
Less due within one year	1	2			
	48	49			
Total Long-term debt	765	831			
Less due within one year	64	62			
Long-term debt, net of due in one year	$ 701	$ 769			

Interest on Series 2003 A and 2007 B Revenue Bonds and Subordinated Notes, Series 2012 and Subordinated Notes, Series 2017 is not excluded from gross income for bondholders' Federal income tax purposes.

Senior Debt

As indicated in Note 3 "Bond Resolution" of notes to the consolidated financial statements, the Authority has pledged future revenues to service the Obligations and Parity Debt (Senior Debt) issued under the Bond Resolution. The total principal and interest remaining to be paid on the Senior Debt is $1.2 billion as of December 31, 2018. Principal and interest paid for 2018 and operating income plus depreciation were $101 million and $457 million, respectively. Principal and interest paid for 2017 and operating income plus depreciation were $101 million and $480 million, respectively.

Senior revenue bonds are subject to redemption prior to maturity in whole or in part as provided in the supplemental resolutions authorizing the issuance of each series of bonds, beginning for each series on the date indicated in the table above, at principal amount or at various redemption prices according to the date of redemption, together with accrued interest to the redemption date.

At December 31, 2018 and 2017, the current market value of the senior debt was approximately $818 million and $880 million, respectively. Market values were obtained from a third party that utilized a matrix-pricing model.

Subordinate Debt:

Subordinate Notes – In November 2016, the Authority's Trustees authorized the issuance of Subordinated Notes, Series 2017 (Subordinated Notes, Series 2017) in a principal amount not to exceed $30 million to accelerate additional funding for the State Parks Greenway Fund, which was established pursuant to the Niagara Relicensing Settlement entered into by the Authority and the New York State Office of Parks, Recreation & Historic Preservation in connection with the Niagara Project's relicensing. The Authority issued the subordinate notes on February 24, 2017 in the amount of $25.2 million. These Subordinated Notes are subordinate to the Series 2003 A Revenue Bonds, the Series 2007 A, B, and C Revenue Bonds, the Series 2011 A Revenue Bonds, and the Series 2015 A Revenue Bonds.

In November 2012, the Authority's Trustees authorized the issuance of Subordinated Notes, Series 2012 (Subordinated Notes, Series 2012), in a principal amount not to exceed $30 million for the purpose of accelerating the funding for the State Parks Greenway Fund, which was established pursuant to the Niagara Relicensing Settlement entered into by the Authority and the New York State Office of Parks, Recreation & Historic Preservation. The Authority issued the Subordinated Notes on December 18, 2012 in the amount of $25 million. These Subordinated Notes are subordinate to the Series 2003 A Revenue Bonds, the Series 2007 A, B, and C Revenue Bonds, the Series 2011 A Revenue Bonds and the Series 2015 A Revenue Bonds.

Commercial Paper – Under the Extendible Municipal Commercial Paper (EMCP) Note Resolution, adopted December 17, 2002, and as subsequently amended and restated, the Authority may issue a series of notes, designated EMCP Notes, Series 1, maturing not more than 270 days from the date of issue, up to a maximum amount outstanding at any time of $200 million (EMCP Notes). It is the Authority's intent to remarket the EMCP Notes as they mature with their ultimate retirement in 2021. The Authority has the option to extend the maturity of the EMCP Notes and would exercise such right in the event there is a failed remarketing. This option serves as a substitute for a liquidity facility for the EMCP Notes.

Under the Commercial Paper Note Resolution adopted June 28, 1994, as subsequently amended and restated, the Authority may issue from time to time a separate series of notes maturing not more than 270 days from the date of issue, up to a maximum amount outstanding at any time of $400 million (Series 1 CP Notes), $450 million (Series 2 CP Notes), $350 million (Series 3 CP Notes) and $220 million (Series 4 CP Notes). See Note 7 of the notes to the financial statements for Series 1, and certain Series 2 and Series 3 CP Notes designated as short-term debt. There were no Series 4 CP Notes outstanding at December 31, 2017.

The proceeds of certain Series 2 Commercial Paper Notes (CP Notes) were used to refund General Purpose Bonds and the proceeds of the EMCP Notes were used to refund Series 2 and 3 CP Notes. CP Notes and EMCP Notes have been used, and may in the future be used, for other corporate purposes. It is the Authority's intention to renew the EMCP Notes as they mature.

The Authority has a line of credit under a 2019 revolving credit agreement (the 2019 RCA), with a syndicate of banks, to provide liquidity support for the Series 1-3 CP Notes, under which the Authority may borrow up to $600 million in aggregate principal amount outstanding at any time for certain purposes, including the repayment of the Series 1–3 CP Notes. The 2019 RCA expires January 22, 2022. The 2019 RCA succeeded the amended 2015 RCA, which expired by its terms on January 18, 2019 with no outstanding borrowings. There are no outstanding borrowings under the 2019 RCA.

CP Notes and EMCP Notes are subordinate to the Series 2003 A Revenue Bonds, the Series 2007 A, B, and C Revenue Bonds, the Series 2011 A Revenue Bonds and the Series 2015 A Revenue Bonds.

Interest on the CP (Series 3) is taxable to holders for Federal income tax purposes.

The interest rate used to calculate future interest expense on variable rate debt is the interest rate at December 31, 2018.

Maturities and Interest Expense:	Long-Term Debt (In millions)			Capitalized Lease Obligations (In millions)		
	Principal	Interest	Total	Principal	Interest	Total
Years ending December 31:						
2019	$ 64	$ 40	$ 104	$ 37	$ 88	$ 125
2020	68	36	104	43	85	128
2021	60	33	93	50	81	131
2022	41	31	72	58	77	135
2023	17	28	45	66	72	138
2024 – 2028	100	128	228	489	257	746
2029 – 2033	147	95	242	371	39	410
2034 – 2038	98	59	157	—	—	—
2039 – 2043	85	34	119	—	—	—
2044 – 2048	79	10	89	—	—	—
	759	494	1,253	1,114	699	1,813
Plus unamortized bond premium	12	—	12	—	—	—
Less deferred refinancing cost	6	—	6	—	—	—
Total	$ 765	$ 494	$ 1,259	$ 1,114	$ 699	$ 1,813

b. Terms by Which Interest Rates Change for Variable Rate Debt

CP Notes and EMCP Notes (Long-Term Portion)

The Authority determines the rate for each rate period which is the minimum rate necessary to remarket the notes at par in the Dealer's opinion. If the Authority exercises its option to extend the maturity of the EMCP Notes, the reset rate will be the higher of (SIFMA + E) or F, where SIFMA is the Securities Industry and Financial Markets Association Municipal Swap Index, which is calculated weekly, and where "E" and "F" are fixed percentage rates expressed in basis points (each basis point being 1/100 of one percent) and yields, respectively, that are determined based on the Authority's debt ratings subject to a cap rate of 12%. As of December 31, 2018 the reset rate would have been 7%.

c. Changes in Noncurrent Liabilities

Changes in the Authority's noncurrent liabilities for the year ended December 31, 2018 are comprised of the following:

	Beginning balance	Additions	Maturities/ refundings and other	Ending balance	Due within one year
			(In millions)		
Senior debt:					
Revenue bonds	$ 770	—	60	$ 710	$ 63
Subtotal	770	—	60	710	63
Subordinate debt:					
Subordinated Notes, Series 2017	25	—	1	24	1
Subordinated Notes, Series 2012	21	—	1	20	—
Commercial paper	5	—	—	5	—
Subtotal	51	—	2	49	1
Net unamortized discounts/ premiums and deferred losses	10	—	4	6	—
Total debt, net of unamortized discounts/ premiums/ deferred losses	$ 831	—	66	$ 765	$ 64
Other noncurrent liabilities:					
Capitalized lease obligation	$ 1,114	—	37	1,077	37
Disposal of nuclear fuel	219	4	—	223	—
Relicensing	250	16	22	244	—
Other	303	83	—	$ 386	$ —
Total other noncurrent liabilities	$ 1,886	103	59	$ 1,930	$ 37

Changes in the Authority's long-term liabilities for the year ended December 31, 2017 are comprised of the following:

	Beginning balance	Additions	Maturities/ refundings and other	Ending balance	Due within one year
			(In millions)		
Senior debt:					
Revenue bonds	$ 827	—	57	$ 770	$ 60
Subtotal	827	—	57	770	60
Subordinate debt:					
Subordinated Notes, Series 2017	—	25	—	25	1
Subordinated Notes, Series 2012	22	—	1	21	1
Commercial paper	5	—		5	—
Subtotal	27	25	1	51	2
Net unamortized discounts/ premiums and deferred losses	14	—	4	10	—
Total debt, net of unamortized discounts/ premiums/ deferred losses	$ 868	25	62	$ 831	$ 62
Other noncurrent liabilities:					
Capitalized lease obligation	$ 1,144	—	30	$ 1,114	$ 31
Disposal of nuclear fuel	217	2	—	219	—
Relicensing	270	18	38	250	—
Other	227	76	—	303	—
Total other noncurrent liabilities	$ 1,858	96	68	$ 1,886	$ 31

(7) Short-Term Debt

CP Notes (short-term portion) outstanding was as follows:

	December 31,			
	2018		2017	
	Availability	Outstanding	Availability	Outstanding
	(In millions)			
CP Notes (Series 1)	$ 194	$ 206	$ 225	$ 175
CP Notes (Series 2)	176	274	162	288
CP Notes (Series 3)	304	46	328	22

Under the Commercial Paper Note Resolution adopted June 28, 1994, as subsequently amended and restated, the Authority may issue from time to time a separate series of notes maturing not more than 270 days from the date of issue, up to a maximum amount outstanding at any time of $400 million (Series 1 CP Notes), $450 million (Series 2 CP Notes), $350 million (Series 3 CP Notes) and $220 million (Series 4 CP Notes). It had been and shall be the intent of the Authority to use the proceeds of the Series 1 CP Notes and certain Series 2 and Series 3 CP Notes to finance the Authority's current and future energy efficiency programs and for other corporate purposes.

The changes in short-term debt are as follows:

	Beginning balance	Increases	Decreases	Ending balance
		(In millions)		
Year:				
2018	$ 485	103	62	$ 526
2017	$ 516	83	114	$ 485

(8) Risk Management and Hedging Activities

Overview

The Authority purchases insurance coverage for its operations, and in certain instances, is self-insured. Property insurance protects the various real and personal property owned by the Authority and the property of others while in the care, custody and control of the Authority for which the Authority may be held liable. Liability insurance protects the Authority from third-party liability related to its operations, including general liability, automobile, aircraft, marine and its officers and directors. Cyber liability insurance protects the Authority against first and third party losses. Insured losses by the Authority did not exceed coverage for any of the four preceding fiscal years. The Authority self-insures a certain amount of its general liability coverage, the physical damage claims for its owned and leased vehicles and for portions of its medical, dental and workers' compensation insurance programs. The Authority pursues subrogation claims as appropriate against any entities that cause damage to its property.

Another aspect of the Authority's risk management program is to manage risk and related volatility on its earnings and cash flows associated with electric energy prices, fuel prices, electric capacity prices and interest rates. Through its participation in the NYISO and other commodity markets, the Authority is subject to electric energy price, fuel price and electric capacity price risks that impact the revenue and purchased power streams of its

facilities and customer market areas. Such volatility can potentially have adverse effects on the Authority's financial condition. To mitigate potential adverse effects and to moderate cost impacts to its customers (many of the Authority's customer contracts provide for the complete or partial pass-through of these costs), the Authority hedges market risks through the use of financial derivative instruments and/or physical forward contracts. Hedges are transacted by the Authority to mitigate volatility in the cost of energy or related products needed to meet customer needs; to mitigate risk related to the price of energy and related products sold by the Authority; to mitigate risk related to margins (electric sales versus fuel use) where the Authority owns generation or other capacity; and to mitigate geographic cost differentials of energy procured or sold for transmission or transportation to an ultimate location. Commodities to be hedged include, but are not limited to, natural gas, natural gas basis, electric energy, electric capacity and congestion costs associated with the transmission of electricity.

To achieve the Authority's risk management program objectives, the Authority's Trustees have authorized the use of various interest rate, energy, and fuel derivative instruments for hedging purposes that are considered derivatives under GAS No. 53, *Accounting and Financial Reporting for Derivative Instruments* (GAS No. 53).

The fair values of all Authority derivative instruments, as defined by GAS No. 53, are reported in current and noncurrent assets or liabilities on the statements of net position as risk management activities. For designated hedging derivative instruments, changes in the fair values are deferred and classified as deferred outflows or deferred inflows on the statements of net position. The fair value for over-the-counter and exchange-traded energy, and capacity derivative instruments are determined by the latest end-of-trading-month forward prices over the lifetime of each outstanding energy derivative instrument using the prices published by Standard & Poor's Global Platt's ("Platts") or internal pricing models.

Derivative Instruments

The following table shows the fair value of outstanding derivative instruments for 2018 and 2017:

Derivative instrument description	Fair value balance December 31, 2017	Net change in fair value	Fair value balance December 31, 2018	Type of hedge or transaction	Financial statement classification for changes in fair value	Notional amount December 31, 2018	Unit of Measure
			($ in millions)				
Energy swaps	$ 2	$ (9)	$ (7)	Cash Flow	Deferred inflow	(1,496,000)	MWh
Energy capacity futures	6	(5)	1	Cash Flow	Deferred outflow	(2,505,000)	KWm
Totals	$ 8	$ (14)	$ (6)				

Energy swaps – The Authority has outstanding short-term energy swaps to manage the revenue stream of forecasted merchant hydro sales through 2020 and it had short-term energy swaps to manage the cost of forecasted purchased power requirements and transmission congestion for certain business customers. Net settlement payments were $27.3 million and receipts were $40.4 million in 2018 and 2017, respectively.

Energy capacity futures – The Authority has outstanding forward installed capacity futures intended to mitigate the volatility of market prices for transactions in the NYISO markets through 2020. Net settlement payments were $7.8 and receipts were $22.3 million in 2018 and 2017, respectively.

Other – The Authority from time to time enters into certain derivative instruments that may become ineffective due to changes in the hedged item. The change in fair value of such derivative instruments would be recognized as other nonoperating charges or credits in the statements of revenues, expenses and changes in net position. The fair value of these derivative instruments was insignificant to the Authority's 2018 and 2017 financial statements.

Counterparty Credit Risk

The Authority imposes thresholds, based upon agency-published credit ratings and/or analysis, for unsecured credit that can be extended to counterparties to the Authority's commodity derivative transactions. The thresholds are established in bilateral credit support agreements with counterparties and require collateralization of market values in excess of the thresholds. In addition, the Authority regularly monitors each counterparty's market-implied credit ratings and financial ratios and the Authority can restrict transactions with counterparties on the basis of that monitoring, even if the applicable unsecured credit threshold is not exceeded.

Based upon the fair values as of December 31, 2018, the Authority's individual or aggregate exposure to derivative instrument counterparty credit risk is not significant.

Other Considerations

The Authority from time to time may be exposed to any of the following risks:

Basis risk – The Authority is exposed to other basis risk in a portion of its electrical commodity-based swaps where the electrical commodity swap payments received are based upon a reference price in a NYISO Market Zone that differs from the Zone in which the hedged electric energy load is forecasted. If the correlation between these Zones' prices should fall, the Authority may be exposed to risk as a result of the hedging inability of the electrical commodity swap's to offset the delivery price of the related energy.

Rollover risk – Certain electrical commodity swaps are based upon projected future customer loads or facility operations. Beyond the terms of these swaps, the Authority is subject to the corresponding market volatilities.

Termination risk – The Authority or its counterparties may terminate a derivative instrument agreement if either party fails to perform under the terms of the agreement. The risk that such termination may occur at a time which may be disadvantageous to the Authority has been mitigated by including certain terms in these agreements by which the counterparty has the right to terminate only as a result of certain events, which includes a payment default by the Authority; other Authority defaults which remain uncured within a defined time-frame after notice; bankruptcy or insolvency of the Authority (or similar events); or a downgrade of the Authority's credit rating below investment grade. If at the time of termination the Authority has a liability position, related to its hedging derivative instruments, the Authority would be liable to the counterparty for a payment equal to the liability, subject to netting arrangements.

Market access risk – The Authority remarkets its CP Notes on a continuous basis. Should the market experience a disruption or dislocation, the Authority may be unable to remarket its Notes for a period of time. To mitigate this risk, the Authority has entered into liquidity facilities with highly rated banks to provide loans to support the CP Note programs. See Note 6 "Long-Term Debt" of the notes to the consolidated financial statements.

Dodd Frank Act

The Dodd-Frank Wall Street Reform and Consumer Protection Act (DF Act) addresses, among other things, interest rate and energy related commodity swap transactions of the type in which the Authority may engage. The requirements and processes are set forth in regulations promulgated by the Commodities Futures Trading Commission (CFTC). Pursuant to CFTC rules, the Authority, as a public entity and electric utility which uses swaps solely to manage its risk, is exempted from posting collateral beyond that of any existing credit support annexes in support of its open over-the-counter hedge positions. These CFTC rules are not anticipated to have significant impact on the Authority's liquidity and/or future risk mitigation activities. CFTC DF Act rules are still being promulgated, and the Authority will continue to monitor their potential impact on the Authority's liquidity and/or future risk mitigation activities.

(9) Fair Value Measurements

GAS No. 72 establishes a hierarchy of valuation inputs based on the extent to which the inputs are observable in the marketplace. Inputs are used in applying the various valuation techniques and take into account the assumptions that market participants use to make valuation decisions. Inputs may include price information, credit data, interest and yield curve data, and other factors specific to the financial instrument. Observable inputs reflect market data obtained from independent sources. In contrast, unobservable inputs reflect the entity's assumptions about how market participants would value the financial instrument.

The fair value hierarchy prioritizes the inputs used to measure fair value into three broad Levels (Levels 1, 2, and 3), moving from quoted prices in active markets in Level 1 to unobservable inputs in Level 3. A financial instrument's level within the fair value hierarchy (where Level 1 is the highest and Level 3 is the lowest) is based on the lowest level of any input that is significant to the fair value measurement. The categorization of a financial instrument within the hierarchy is based upon pricing transparency and is not necessarily an indication of the Authority's perceived risk of that instrument.

The following describes the hierarchy of inputs used to measure fair value and the primary valuation methodologies used for financial instruments measured at fair value on a recurring basis:

- Level 1 – quoted prices for identical assets or liabilities in active markets that a government can access at the measurement date.

- Level 2 - quoted prices other than quoted prices included within Level 1 and other inputs that are observable for an asset or liability, either directly or indirectly.

- Level 3 – pricing inputs are unobservable for the asset or liability and may rely on inputs using the best available data under the circumstances, including the government's own data.

The following describes the valuation methodologies used for assets and liabilities measured at fair value:

- U.S. government obligations – The fair value is based on institutional bond quotes and evaluations based on various market data/inputs.

- U.S. government agencies and instrumentalities – The fair value of government agencies and instrumentalities are based on institutional bond quotes and evaluations based on various market and industry inputs.
- Corporate obligations – The fair value is based on institutional bond quotes and evaluations on various market and industry inputs.

- Derivative instruments – The Authority hedges market risks through the use of derivative instruments. Derivative instruments are traded on both exchange-based and non-exchange based markets. A detail disclosure on derivatives is included in Note 8 "Risk Management and Hedging Activities" of notes to the consolidated financial statements.

    - The fair values for over-the-counter and exchange-traded energy, derivative instruments are determined by the latest end-of-trading-month forward prices over the lifetime of each outstanding derivative instrument using prices published by Platts.

    - The fair value for capacity derivative instruments is based on internal pricing models which develop a demand curve for the NYISO monthly spot market capacity auctions. Capacity reference points are observed from the NYISO filing with FERC. Peak load forecast are observed in the NYISO's Gold Book and NYPSC's publications.

The following tables summarize the Authority's assets and liabilities within the fair value hierarchy at December 31, 2018 and December 31, 2017:

	Fair Value Measurements (in millions)			
December 31, 2018	**Total**	**Level 1**	**Level 2**	**Level 3**
Assets				
Cash and cash equivalents	$ 40	$ 40	$ -	$ -
Treasury bills	10	10	-	-
Treasury notes	6	6		
Federal Agency securities:				
FNMA	169	-	169	-
FHLMC	147	-	147	-
FHLB	367	-	367	-
FFCB	160	-	160	-
Municipal Bonds	130	-	130	-
All other	4	4	-	-
Total cash and investments at fair value	1,033	60	973	-
Derivative instruments:(a)				
Energy capacity futures	1	-	1	-
Total derivative assets at fair value	1	-	1	-
Total assets at fair value	$ 1,034	$ 60	$ 974	$ -
Liabilities				
Derivative instruments:(a)				
Energy swaps	$ 7	$ -	$ 7	$ -
Total derivative liabilites at fair value	7	-	7	-
Total liabilities at fair value	$ 7	$ -	$ 7	$ -

	Fair Value Measurements (in millions)			
December 31, 2017	**Total**	**Level 1**	**Level 2**	**Level 3**
Assets				
Cash and cash equivalents	$ 63	$ 63	$ -	$ -
Federal Agency securities:				
FNMA	291	-	291	-
FHLMC	200	-	200	-
FHLB	379	-	379	-
FFCB	148	-	148	-
Municipal Bonds	102	-	102	-
All other	3	3	-	-
Total cash and investments at fair value	1,123	3	1,120	-
Total Assets at Fair Value	$ 1,186	$ 66	$ 1,120	$ -
Liabilities				
Derivative instruments:(a)				
Energy swaps	$ 2	$ -	$ 2	$ -
Energy capacity futures	6	-	-	6
Total derivative assets at fair value	8	-	2	6
Total Liabiliies at Fair Value	$ 8	$ -	$ 2	$ 6

(a) The accounting rules for fair value measurements and disclosures require consideration of the impact of nonperformance risk (including credit risk) from a market participant perspective in the measurement of the fair value of assets and liabilities. At December 31, 2018 and 2017, the Authority determined that nonperformance risk would have no material impact on the financial position or results of operations.

(10) Pension Plans

General Information

The Authority and substantially all of the Authority's employees participate in the New York State and Local Employees' Retirement System (NYSLERS) and the Public Employees' Group Life Insurance Plan (the Plan). These are cost-sharing multiple-employer defined benefit retirement plans.

The NYSLERS uses a tier concept to distinguish membership classes (i.e. tiers 1 through 6) with tier membership based on the date an employee joins the System. The ERS is non-contributory for tiers 1 and 2 employees who joined the NYSLERS on or prior to July 27, 1976. Tiers 3 and 4 employees, who joined the NYSLERS between July 28, 1976 and December 31, 2009 and have less than ten years of service, contribute 3% of their salary. Tier

5 employees who joined the NYSLERS on or after January 1, 2010 contribute 3% of their salary during their entire length of service. Tier 6 employees who joined the NYSLERS on or after April 1, 2013 contribute 3% of their salary through March 31, 2013 and up to 6% thereafter, based on their annual salary, during their entire length of service. Members become vested in the plan after ten years of service and generally are eligible to receive benefits at age 55. The benefit is generally 1.67 percent of final average salary (FAS) times the number of years of service, for members who retire with less than 20 years of service, and 2 percent of FAS for members who retiree with 20 or more years of service. The NYSLERS provides an annual automatic cost of living adjustment to members or surviving spouses based on certain eligibility criteria.

The NYSLERS and the Plan provide retirement benefits as well as death and disability benefits. Obligations of employers and employees to contribute and benefits to employees are governed by the New York State Retirement and Social Security Law (NYSRSSL). As set forth in the NYSRSSL, the Comptroller of the State of New York (Comptroller) serves as sole trustee and administrative head of the NYSLERS and the Plan. The Comptroller adopts and may amend rules and regulations for the administration and transaction of the business of the NYSLERS and the Plan, and for the custody and control of their funds. Under the authority of the NYSRSSL, the Comptroller shall certify annually the rates expressed as proportions of payroll of members, which shall be used in computing the contributions required to be made by employers.

The Authority is required to contribute at an actuarially determined rate. The average contribution rate relative to payroll for the NYSLERS fiscal year ended March 31, 2018 was 15%. The average contribution rates relative to payroll for the NYSLERS fiscal years ending March 31, 2019 and 2020 have been set at approximately 15% for both years. The required contributions for 2018 and 2017 were $28 million and $28 million, respectively. The Authority's contributions to the NYSLERS were equal to 100% of the required contributions for each year.

The NYSLERS and the Plan issue a publicly available financial report that includes financial statements and required supplementary information. That report may be obtained by writing to the New York State and Local Employees' Retirement System, 110 State Street, Albany, NY 12244 or may be found on the internet at www.osc.state.ny.us/retire/publications/index.php.

Pension Liabilities, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

At December 31, 2018, the Authority reported a liability of $23 million for its proportionate share of the net pension liability. The NYSLERS total pension liability, which was used to calculate the NYSLERS net pension liability, was determined by the NYSLERS actuarial valuation as of March 31, 2018 (measurement date). The Authority's proportion of the net pension liability was based on a projection of the Authority's long-term share of contributions to the pension plan relative to the projected contributions of all participating employers, actuarially determined. At March 31, 2018, the Authority's proportion percentage (0.639%) of the net pension liability changed slightly compared to its proportion measured as of March 31, 2017 (0.637%). The Canal Corporation's proportionate share was 0.08% at March 31, 2018 and March 31, 2017.

For the year ended December 31, 2018 and 2017, the Authority recognized pension expense of $28 million and $38 million, respectively. At December 31, 2018, the Authority reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	Deferred Outflows	Deferred Inflows
	(In millions)	
Difference between expected and actual experience	$ 8	$ 7
Net difference between projected and actual earnings on investments	34	66
Change of assumptions	16	–
Net difference between employer contributions and proportionate share of contributions	2	3
Employer contributions subsequent to the measurement date	28	–
Total	$ 89	$ 76

The $28 million reported as deferred outflows of resources related to pensions resulting from the Authority's contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the year ended December 31, 2019. The other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows (in millions):

Year ending December 31,	
2019	$ 5
2020	4
2021	(17)
2022	(7)
Total	$ (15)

Actuarial Assumptions

The NYSLERS total pension liability at March 31, 2018 was determined by using the NYSLERS actuarial valuation as of April 1, 2017 with updated procedures to roll forward the NYSLERS total pension liability to March 31, 2018. The following actuarial assumptions were used for the April 1, 2017 NYSLERS actuarial valuation:

Actuarial cost method:	Entry age normal
Inflation rate:	2.5%
Salary increases:	3.8% annually
Investment rate of return:	7.0% compounded annually, net of investment
Cost of living adjustments:	1.3 % annually

The NYSLERS Annuitant mortality rates are based on April 1, 2010 – March 31, 2015 NYSLERS experience with adjustments for mortality improvements based on the Society of Actuaries' Scale MP-2014. The actuarial assumptions used in the April 1, 2017 valuation are based on the results of an actuarial experience study for the period April 1, 2010 – March 31, 2015.

The NYSLERS long term expected rate of return on pension plan investments was determined using a building block method in which best estimate ranges of expected future real rates of return (expected returns net of investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long term expected rate of return by weighting the expected future real rates of return by the target asset

allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the target asset allocation as of March 31, 2018 are summarized below.

Long-Term Expected Rate of Return

Asset Type	Target Allocation	Long-term Expected Real Rate
Domestic Equity	36%	4.55%
International Equity	14	6.35
Private Equity	10	7.50
Real Estate	10	5.55
Absolute Return	2	3.75
Opportunistic Portfolio	3	5.68
Real Asset	3	5.29
Bonds and Mortgages	17	1.31
Cash	1	(0.25)
Inflation Indexed Bonds	4	1.25
	100%	

Discount Rate

The NYSLERS discount rate used to calculate the total pension liability for the March 31, 2018 and 2017 measurement date was 7.0%. The projection of cash flows used to determine the discount rate assumes that contributions from plan members will be made at the current contribution rates and that contributions from employers will be made at statutorily required rates, actuarially. Based upon the assumptions, the NYSLERS fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore the long term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of Proportionate Share of the Net Pension Liability to Changes in the Discount Rate

The following presents the Authority's proportionate share of the net pension liability calculated using the discount rate of 7.0 percent, as well as what the Authority's proportionate share of the net pension liability would be if it were calculated using a discount rate that is one percentage point lower (6.0 percent) or one percentage point higher (8.0 percent) than the current rate:

	1% Decrease	Current Assumption	1% Increase
Discount rate	6.0%	7.0%	8.0%
The Authority's proportionate share of the net pension liability (asset)	$ 176 million	$ 23 million	$(106) million

The NYSLERS actuary has not recommended any future changes to the actuarial assumptions used in the NYSLERS April 1, 2017 actuarial valuation.

(11) Postemployment Benefits Other Than Pensions, Deferred Compensation and Savings

Adoption of GASB Statement No. 75

The Authority, effective January 1, 2018, adopted Government Accounting Standard Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions* (GAS No. 75). GAS No. 75 refines reporting guidance established under GAS No. 45, Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions. GAS No. 75 requires governments that provide OPEB plans to their employees, to recognize their long term obligation for OPEB benefits as a liability and to more comprehensively and comparably measure the annual costs of OPEB benefits. GAS No. 75 concluded that OPEB's are a form of employee compensation and should be recognized in the same period in which the compensated service is provided by the employees. GAS No. 45 provided for an amortization for the unfunded actuarial accrued liabilities (or funding excess) of the plan over a period up to thirty years. GAS No. 75 eliminated this phase-in over a period of years. GAS No. 75 also enhances accountability and transparency through revised and new note disclosures and required supplemental information. As a result of the adoption of GAS No. 75, the Authority recorded a $(107) million adjustment to its January 1, 2018 net position reflected in its consolidated statements of revenues, expenses and changes in net position for the year ended December 31, 2018.

(a) *Power Authority*

The Power Authority provides certain health care and life insurance benefits for eligible retired employees and their dependents under a single employer noncontributory (except for certain optional life insurance coverage) health care plan (Power Authority OPEB Plan). Employees and/or their dependents become eligible for these benefits when the employee has at least 10 years of service and retires or dies while working at the Power Authority. Salaried employees hired after December 31, 2015 and IBEW employees hired after October 15, 2015, become eligible after 15 years of service. In addition, they will be required to contribute 50% of the active plan contribution.

The Power Authority has an established trust for OPEB obligations (OPEB Trust), with the trust to be held by an independent custodian. Plan members are not required to contribute to the OPEB Trust. The OPEB Trust is set-up to pay for the exclusive benefit of the OPEB Trust. The funding of the Power Authority's OPEB Trust is at the discretion of management as approved by the Board of Trustees. The Power Authority made contributions on a pay-as you go basis in 2018 and 2017 and did not contribute any amount beyond these contributions to the OPEB Trust.

As of the December 31, 2017 actuarial valuation, the following current and former employees were covered by the benefit terms, under the Plan. It is assumed that 100% of future retirees who meet the eligibility requirements will participate in the OPEB plan.

Active employees	1,710
Inactive employees and beneficiaries, receiving and or entitled to benefits	2,673
Total	4,383

OPEB Expense and Deferred Outflows of Resources and Deferred inflows of Resources Related to OPEB

For the year ended December 31, 2018, the Authority recognized OPEB expense of $2.5 million. At December 31, 2018, the Authority reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
	(In millions)	
Differences between expected and actual experience	$ –	$ –
Changes in assumptions	–	–
Differences between projected & actual investment earnings	–	41
Employer contributions subsequent to the measurement date	25	–
Total	$ 25	$ 41

The $25 million reported as deferred outflows of resources related to OPEB resulting from the Authority's contributions subsequent to the measurement date will be recognized as a reduction of the total OPEB liability in the following year. The other amount reported as deferred inflows of resources related to OPEB will be recognized in OPEB expense as follows:

Year ending December 31,	(In millions)
2019	$ 10
2020	10
2021	10
2022	11
	$ 41

Net OPEB Liability

The Authority's net OPEB liability (asset) was measured as of December 31, 2017, and the total OPEB liability used to calculate the net OPEB liability (asset) was determined by an actuarial valuation as of that date. The Authority's net OPEB asset of $25 million and $43 million is recorded in miscellaneous receivables and in other long-term assets, respectively, in the Authority's consolidated statements of net position.

The following table shows the components of the Authority's changes in its total OPEB liability, the OPEB fiduciary net position, and the net OPEB (asset) during the measurement period ending December 31, 2017.

	Total OPEB Liability	Plan Fiduciary Net Position	Net OPEB (Asset)
	Increase (Decrease) (In millions)		
Balance – beginning of year	$ 509	$ 517	$ (8)
Service Cost	12	–	12
Interest	36	–	36
Differences between expected and actual experience	–	–	–
Contributions – employer	–	22	(22)
Net investment income	–	88	(88)
Benefit payments	(22)	(22)	–
Administrative expense	–	(2)	(2)
Net changes	26	86	(60)
Balance – end of year	$ 535	$ 603	$ (68)

The components of the net OPEB asset at December 31, 2018, were as follows (in millions):

Total OPEB liability	$ 560
Plan fiduciary net position	(565)
Net OPEB (Asset)	$ (5)
Plan fiduciary net position as a percentage of the total OPEB liability	101%

Actuarial Assumptions

The total OPEB liability in the December 31, 2017 actuarial valuation was determined using the following actuarial assumptions and other inputs, applied to all periods included in the measurement, unless otherwise specified:

Investment rate of return:	7.00%
Inflation:	2.50%
Healthcare Cost Trend Rates:	Pre-Medicare - 8.0 percent for 2018, decreasing 0.5 percent per year to an ultimate rate of 4.5 percent for 2025 and later years. Post-Medicare - 5.1 percent for 2018, decreasing to an ultimate rate of 4.5 percent for 2025. Prescription drugs (Rx) – 9.0 999percent for 2018, decreasing to an ultimate rate of 4.5 percent for 2025.
Salary increases:	Varies by service, average of 4.5 percent for 1-5 years of service, 3.8 percent for 6-10 years of service, 3.3 percent for 11-15 years of service, and 3.0 percent for 20 years or more of service.
Mortality:	Gender distinct pre and post-commencement rates based on experience under the New York State Local Retirement System. Base rates reflect a 2014 base year, and the MP-2017 Projection Scale is applied to the base rates.

Long-Term Expected Rate of Return

The long-term expected rate of return on OPEB plan investments was determined using a building-block method in which best estimate ranges of expected future real rates (expected returns net of inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

Asset Type	Target Allocation	Long-term Expected Real Rate of Return
Domestic Equity	37 %	5.3 %
International Equity	24	7.9
Fixed Income	30	2.4
Real Estate	6	6.5
Cash	3	2.0
Total	100 %	

Rate of Return

For the year ended December 31, 2018, the annual money-weighted rate of return on investments, net of investment expense, was (6.30) percent. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Discount Rate

The discount rate used to calculate the total OPEB liability was 7.0%, the long-term rate of return on the OPEB Trust assets. The projection of cash flows used to determine the discount rate assumed that NYPA will contribute at a rate equal to the average of contributions made over the most recent five-year period (2013 through 2017), and that contributions apply first to service cost of current and future plan members and then to past service costs. Based on those assumptions, the OPEB plan's fiduciary net position was projected to be available to make all projected OPEB payments for current active and inactive employees for the foreseeable future.

Sensitivity of the Net OPEB (Asset) to Changes in the Discount Rate

Changes in the discount rate affect the measurement of the total OPEB liability. The following table depicts the Authority's Net OPEB liability / (asset), as well as the sensitivity of using a discount rate that is 1 percentage point lower (6.0 percent) or 1 percentage point higher (8.0 percent) than the current discount rate:

	1% Decrease (6.0%)	Current Discount Rate (7.0%)	1% Increase (8.0%)
Net OPEB Liability / (Asset)	$ 8 million	$ (68) million	$ (129) million

Sensitivity of the Net OPEB Liability / (Asset) to Changes in the Healthcare Cost Trend Rates

Changes in the healthcare cost trends affect the measurement of the total OPEB liability. The table below shows the sensitivity of the net OPEB liability / (asset) to the changes in the healthcare cost trends:

	1% Decrease	Current Healthcare Trend Rate	1% Increase
Net OPEB Liability / (Asset)	$ (137) million	$ (68) million	$ 26 million

(b) Canal Corporation

The Canal Corporation provides health care and death benefit for eligible retired employees. Substantially all employees may become eligible for these benefits if they reach normal retirement age while working for the Canal Corporation. The Canal Corporation participates, pursuant to the provision of Section 163(4) of the New York State Civil Service Law, in the New York State health Insurance Program (NYSHIP). NYSHIP does not issue a standalone financial report since there are no assets legally segregated for the sole purpose of paying benefits under the plan.

To be eligible an employee must (1) retiree as a member of Canal Corporation, or be at least 55 years old at time of termination; (2) be enrolled in the NYSHIP on date of retirement; and (3) complete at least 5 years of service for the retiree and dependent to have coverage while the employee is living. Ten years of service

are needed for continued dependent coverage upon death of the employee. The Plan currently pays a portion of the medical premium cost for retired employees and covered dependents. Additionally, the Plan reimburses retirees and covered dependents for their Medicare Part B premiums.

As of the December 31, 2017 actuarial valuation, the following current and former employees were covered by the benefit terms, under the Plan. It is assumed that 100% of future retirees who meet the eligibility requirements will participate in the OPEB plan.

Active employees, including opt-out (actives not in medical plan)	448
Inactive employees and beneficiaries, receiving and or entitled to benefits	435
Total	883

OPEB Expense and Deferred Outflows of Resources and Deferred inflows of Resources Related to OPEB

The Authority's consolidated financial statements include the Canal Corporation's OPEB costs of $19.0 million, for the year ended December 31, 2018. In addition, the Authority's consolidated statements include the Canal Corporations deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
	(in millions)	
Differences between expected & actual experience	$ –	$ –
Changes in assumptions	16	–
Employer contributions subsequent to the measurement date	6	–
Total	$ 22	$ –

The $6 million reported as deferred outflows of resources related to OPEB resulting from the Canal Corporation's contributions subsequent to the measurement date will be recognized as a reduction of the total OPEB liability in the following year. The other amount reported as deferred inflows of resources related to OPEB will be recognized in OPEB expense as follows:

Year ending December 31,	(in millions)
2019	$ 4
2020	4
2021	4
2022	4
	$ 16

Total OPEB Liability

The Canal Corporation's total OPEB liability was measured as of December 31, 2017, using an actuarial valuation as of that date. The Canal Corporation's total OPEB liability is recorded in the Authority's consolidated statements of net position in other long-term liabilities in the amount of $234 million.

The following table shows the components of the Canal Corporation's changes in its total OPEB liability during the measurement period ending December 31, 2017.

	Total OPEB Liability Increase (Decrease) (in millions)
Balance – beginning of year	$ 205
Changes for the year:	
Service cost	7
Interest	8
Changes of benefit terms	–
Differences between expected & actual experience	–
Changes of assumptions	20
Benefit payments	(6)
Net Changes in Total OPEB Liability	29
Balance – end of year	$ 234

Actuarial Assumptions

The total OPEB liability in the December 31, 2017 actuarial valuation was determined using the following actuarial assumptions and other inputs, applied to all periods included in the measurement, unless otherwise specified:

Inflation:	2.50%
Healthcare Cost Trend Rates:	Pre-Medicare - 5.75 percent for 2018, decreasing to an ultimate rate of 4.5 percent for 2025 and later years. Post-Medicare - 5.1 percent for 2018, decreasing to an ultimate rate of 4.5 percent for 2025. Prescription drugs (Rx) – 9.0 percent for 2018, decreasing to an ultimate rate of 4.5 percent for 2025.
Salary increases:	Varies by service, average of 4.5 percent for 1-5 years of service, 3.8 percent for 6-10 years of service, 3.3 percent for 11-15 years of service, and 3.0 percent for 20 years or more of service.
Mortality:	Gender distinct pre and post-commencement rates based on experience under the New York State Local Retirement System. Base rates reflect a 2014 base year, and the MP-2017 Projection Scale is applied to the base rates.

Discount Rate

The discount rate at the measurement date used to calculate the total OPEB liability is 3.16%. The discount rate is based on the S&P Municipal Bond 20 Year High Grade Rate Index as of December 29, 2017. Benefit payments are funded on a pay-as-you go basis. The discount rate at the previous measurement date is 3.71% based on the S&P Municipal Bond 20 Year High Grade Rate Index as of December 30, 2016.

Sensitivity of the Total OPEB Liability to Changes in the Discount Rate

Changes in the discount rate affect the measurement of the total OPEB liability. The following table depicts the Canal Corporation' Total OPEB liability, as well as the sensitivity of using a discount rate that is 1 percentage point lower (2.16 percent) or 1 percentage point higher (4.16 percent) than the current discount rate:

	1% Decrease (2.16%)	Current Discount Rate (3.16%)	1% Increase (4.16%)
Total OPEB Liability	$ 278 million	$ 234 million	$ 199 million

Sensitivity of the Total OPEB Liability to Changes in the Healthcare Cost Trend Rates

Changes in the healthcare cost trends affect the measurement of the total OPEB liability. The table below shows the sensitivity of the total OPEB liability to the changes in the healthcare cost trends:

	1% Decrease	Current Healthcare Trend Rate	1% Increase
Total OPEB Liability	$ 191 million	$ 234 million	$ 295 million

(c) Deferred Compensation and Savings Plans

The Power Authority offers union employees and salaried employees a deferred compensation plan created in accordance with Internal Revenue Code, Section 457. This plan permits participants to defer a portion of their salaries until future years. Amounts deferred under the plan are not available to employees or beneficiaries until termination, retirement, death or unforeseeable emergency.

The Power Authority also offers salaried employees a savings plan created in accordance with Internal Revenue Code, Section 401(k). This plan also permits participants to defer a portion of their salaries. The Power Authority matches contributions of employees up to limits specified in the plan. Matching annual contributions were approximately $3.7 million and $3.3 million for 2018 and 2017, respectively.

Both the deferred compensation plan and the savings plan have a loan feature.

Independent trustees are responsible for the administration of the 457 and 401(k) plan assets under the direction of a committee of union representatives and nonunion employees and a committee of nonunion employees, respectively. Various investment options are offered to employees in each plan. Employees are responsible for making the investment decisions relating to their savings plans.

(12) Nuclear Plant Divestiture and Related Matters

(a) *Nuclear Plant Divestiture*

On November 21, 2000, the Power Authority sold the James A. Fitzpatrick nuclear plant (JAF) and the Indian Point 3 nuclear plant (IP3) to two subsidiaries of Entergy Corporation (collectively, Entergy or the Entergy Subsidiaries). On March 31, 2017, Entergy transferred JAF to Exelon Generation Company, LLC (Exelon).

(b) *Nuclear Fuel Disposal*

In accordance with the Nuclear Waste Policy Act of 1982, in June 1983, the Power Authority entered into a contract with the U.S. Department of Energy (DOE) under which DOE, commencing not later than January 31, 1998, would accept and dispose of spent nuclear fuel. In conjunction with the sale of the nuclear plants, the Power Authority's contract with the DOE was assigned to Entergy. Entergy assigned the portion of the pre-1983 spent fuel obligation applicable to JAF to Exelon in connection with the sale of JAF to Exelon. The Power Authority remains liable for the pre-1983 spent fuel obligation to Exelon for JAF and to Entergy for IP3 (see Note 13(e) "Commitments and Contingencies – New York State Budget and Other Matters" relating to a temporary transfer of such funds to the State). As of December 31, 2018 and 2017, the pre-1983 spent fuel liability for JAF and IP3 totaled $223 million and $219 million, respectively.

(13) Commitments and Contingencies

(a) *Power Programs*

Recharge New York Power Program

Chapter 60 (Part CC) of the Laws of 2011 (Chapter 60) established the "Recharge New York Power Program" (RNYPP), administered by the Authority, which has as its central benefit up to 910 MW of low cost power comprised of up to 455 MW of hydropower from the Niagara and St. Lawrence-FDR Projects and up to 455 MW of other power procured by the Authority from other sources. The 910 MW of power is available for allocation as provided by Chapter 60 to eligible new and existing businesses and not-for-profit corporations under contracts of up to seven years. RNYPP was effective beginning July 1, 2012.

The RNYPP replaced two other programs, the Power for Jobs (PFJ) and Energy Cost Savings Benefit (ECSB) Programs, which had extended benefits of low-cost power to certain businesses, small businesses and not-for-profit organizations. Those PFJ and ECSB Program customers who were in substantial compliance with contractual commitments under the PFJ and ECSB Programs and who applied but did not receive RNYPP allocations are eligible to apply for transitional electricity discounts, as provided for in Chapter 60. This transitional electricity discounts program provided for declining levels of discounts through June 30, 2016, when the program terminated, if payment of such discounts was deemed feasible and advisable by the Authority's Trustees. As of December 31, 2018, the Authority's Trustees have authorized transitional electricity discount payments of up to $20 million for the period from July 1, 2012 and June 30, 2016. As of December 31, 2018, approximately $12 million of such discounts have been paid.

The hydropower used for the RNYPP was power formerly used to provide low-cost electricity to domestic and rural customers of the three private utilities that serve upstate New York. To mitigate the impacts from the redeployment of this hydropower for the RNYPP, Chapter 60 created a "Residential Consumer Discount Program" (RCDP). The RCDP authorizes the Authority, as deemed feasible and advisable by its Trustees, to provide annual funding of $100 million for the first three years following withdrawal of the hydropower from the residential and farm customers, $70 million for the fourth year, $50 million for the fifth year, and $30 million each year thereafter, for the purpose of funding a residential consumer discount program for those customers that had formerly received the hydropower that is utilized in the RNYPP. Chapter 60 further authorizes the Authority, as deemed feasible and advisable by the Trustees, to use revenues from the sales of hydroelectric power, and such other funds of the Authority, as deemed feasible and advisable by the Trustees, to fund the RCDP. The Authority's Trustees have authorized the release of a total $534 million for the period from August 2011 to December 2018 in support of the RCDP. The Authority supplemented the market revenues through the use of internal funds, from the August 2011 start of the program through December 31, 2018, totaling cumulatively $76 million. Operations and maintenance expenses included $30 million of residential consumer discounts in each years ended December 31, 2018 and 2017.

Western New York Power Proceeds Allocation Act

Effective March 30, 2012, Chapter 58 (Part GG) of the Laws of 2012 (Chapter 58) created the Western New York Power Proceeds Act (WNYPPA). The WNYPPA authorizes the Authority, as deemed feasible and advisable by the Trustees, to deposit net earnings from the sale of unallocated Expansion Power and Replacement Power from the Authority's Niagara project into an account administered by the Authority known as the Western New York Economic Development Fund (WNYED Fund). Net earnings are defined as any excess revenues earned from such power sold into the wholesale market over the revenues that would have been received had the power been sold at the Expansion Power and Replacement Power rates. Proceeds from the Fund may be used to support eligible projects undertaken within a 30-mile radius of the Niagara power project that satisfy applicable criteria. Chapter 58 also establishes a five-member Western New York Power Allocations Board, which is appointed by the Governor. Chapter 58 also repealed Chapter 436 of the Laws of 2010 which had created a similar program that could not be effectively implemented.

The Authority's Trustees have approved the release of up to $63 million in net earnings, calculated for the period August 30, 2010 through December 31, 2018 as provided in the legislation, for deposit into the Fund. As of December 31, 2018, $42 million has been deposited into the Fund. As of December 31, 2018, the Authority has approved awards of Fund money totaling approximately $37 million to businesses that have proposed eligible projects and has made payments totaling $31 million to such businesses. Payment of these awards is contingent upon the execution of acceptable contracts between the Authority and individual awardees.

Northern New York Power Proceeds Allocation Act

Chapter 545 of the Laws of 2014 enacted the "Northern New York Power Proceeds Act" (NNYPPA). The NNYPPA authorizes the Authority, as deemed feasible and advisable by the Trustees, to deposit "net earnings" from the sale of unallocated St. Lawrence County Economic Development Power (SLCEDP) by the Authority in the wholesale energy market into an account the Authority would administer known as the Northern New York Economic Development Fund (NNYED Fund), and to make awards to eligible applicants that propose eligible projects that satisfy applicable criteria. The NNYPPA also establishes a five-member Northern New York Power Allocations Board appointed by the Governor to review applications seeking NNY Fund benefits and to make recommendations to the Authority concerning benefits awards.

SLCEDP consists of up to 20 MW of hydropower from the Authority's St. Lawrence-FDR Power Project which the Authority has made available for sale to the Town of Massena Electric Department ("MED") for MED to sub-allocate for economic development purposes in accordance with a contract between the parties entered into in 2012 (Authority-MED Contract). The NNYPPA defines "net earnings" as the aggregate excess of revenues received by the Authority from the sale of energy associated with SLCEDP by the Authority in the wholesale energy market over what revenues would have been received had such energy been sold to MED on a firm basis under the terms of the Authority-MED contract. For the first 5 years after enactment, the amount of SLCEDP the Authority could use to generate net earnings may not exceed the lesser of 20 MW or the amount of SLCEDP that has not been allocated by the Authority pursuant to the Authority-MED contract. Thereafter, the amount of SLCEDP that the Authority could use for such purpose may not exceed the lesser of 10 MW or the amount of SLCEDP that has not been allocated.

As of December 31, 2018, the Authority's Trustees approved the release of funds, of up to $12 million, into the NNYED Fund representing "net earnings" from the sale of unallocated SLCEDP into the wholesale energy market for the period December 29, 2014 through December 31, 2018. As of December 31, 2018, approximately $4 million has been deposited into the Fund. As of December 31, 2018, the Authority has approved awards of NNYED Fund money totaling approximately $2 million to businesses that have

proposed eligible projects. Payment of approved awards of the NNYED Fund money is contingent upon the execution of acceptable contracts between the Authority and individual awardees.

(b) *Governmental Customers in the New York City Metropolitan Area*

In 2005, the Authority and its eleven NYC Governmental Customers, including the Metropolitan Transportation Authority, the City of New York, the Port Authority of New York and New Jersey (Port Authority), the New York City Housing Authority, and the New York State Office of General Services, entered into long-term supplemental electricity supply agreements (2005 LTAs) with a term through December 31, 2017. Under the 2005 LTAs, the NYC Governmental Customers agreed to purchase their electricity from the Authority through December 31, 2017.

Under the 2005 LTAs, the Authority and the NYC Governmental Customers modified rates through an annual process based on cost of service principles.

In 2018 and 2019, the Authority executed new supplemental long-term electricity supply agreements (Supplemental LTAs) with its eleven NYC Governmental Customers. Under the Supplemental LTAs, the NYC Governmental Customers agreed to purchase their electricity from the Authority through December 31, 2027, with the NYC Governmental Customers having the right to (1) terminate at any time upon at least 12 months' notice or (2) terminate effective December 31, 2022 upon at least 6 months' notice. Under the Supplemental LTAs, fixed costs were set for each customer and are subject to renegotiation in 2022. Variable costs, including fuel, purchased power and NYISO related costs, will be passed through to each customer by an energy charge adjustment.

The Authority's other Southeastern New York (SENY) Governmental Customers are Westchester County and numerous municipalities, school districts, and other public agencies located in Westchester County (collectively, the "Westchester Governmental Customers"). The Authority has entered a supplemental electricity supply agreement with all 103 Westchester Governmental Customers. Among other things, under the agreement, an energy charge adjustment mechanism is applicable, and customers are allowed to partially terminate service from the Authority on at least two months' notice prior to the start of the NYISO capability periods. Full termination is allowed on at least one year's notice, effective no sooner than January 1 following the one year notice.

Astoria Energy II

In 2008, the Authority entered a long-term electricity supply contract with Astoria Energy II LLC for the purchase of the output of Astoria Energy II, a new 550-MW plant, which was constructed and entered into commercial operation on July 1, 2011 in Astoria, Queens. The delivery period under the contract is through 2031. The costs associated with the contract will be borne by the NYC Governmental Customers. The Authority is accounting for and reporting this lease transaction as a capital lease in the amount of $1.114 billion as of December 31, 2018, which reflects the present value of the monthly portion of lease payments allocated to real and personal property. The balance of the monthly lease payments represents the portion of the monthly lease payment allocated to operations and maintenance costs which are recorded monthly. Fuel for the plant is provided by the Authority and the costs thereof are being recovered from the NYC Governmental Customers.

HTP Transmission Line

In 2011, the Trustees authorized Authority staff to enter into an agreement with Hudson Transmission Partners, LLC (HTP) for the purchase of capacity to meet the long-term requirements of the Authority's NYC Governmental Customers and to improve the transmission infrastructure serving New York City through the transmission rights associated with HTP's transmission line (the Line) extending from Bergen

County, New Jersey in the PJM Interconnection, LLC (PJM) transmission system, to Consolidated Edison Company of New York, Inc.'s (Con Edison) West 49th Street substation in the NYISO. Specifically, the Authority executed a Firm Transmission Capacity Purchase Agreement (FTCPA) with HTP under which the Authority gained the entitlement to 75% of the Line's 660 MW capacity, or 495 MW, for 20 years. The Authority's capacity payment obligations under the FTCPA began upon the Line's commencement of commercial operation, which occurred on June 3, 2013. Also upon commercial operation, the FTCPA obligates the Authority to reimburse HTP for the cost of interconnection and transmission upgrades in New York and New Jersey associated with the Line and to pay for all remaining upgrade costs as they are incurred. Such interconnection and transmission upgrades have been completed. As of December 31, 2018, the Authority paid approximately $334.9 million of such costs related to the interconnection and transmission upgrades. The Authority's obligations under the FTCPA also include payment of the Regional Transmission Enhancement Plan (RTEP) charges allocated to HTP in accordance with the PJM tariff. Such RTEP costs are significant and are discussed below.

It is estimated that the revenues derived from the Authority's rights under the FTCPA will not be sufficient to fully cover the Authority's costs under the FTCPA during the 20-year term of the FTCPA. In December 2018, the Authority estimated that its under-recovery of costs under the FTCPA could be in the range of approximately $89 million to $95 million per year over the period from 2019-2022. The under-recovery estimates were based on projections of the capacity payment obligations, the costs of interconnection and transmission upgrades, and energy revenues.

PJM's RTEP cost allocation methodology for certain upgrades, such as the Bergen-Linden Corridor (BLC) project built by Public Service Electric & Gas Company (PSE&G) in New Jersey, is being challenged at FERC in numerous proceedings by Con Edison, the Authority, HTP and other parties on the grounds that PJM has disproportionately allocated the costs of those projects to those parties. In a separate FERC proceeding, the Authority challenged the RTEP share of the BLC project costs allocated to HTP that were effective May 1, 2017 as a result of Con Edison's termination of its PJM firm transmission rights. The cost allocations shifted approximately $533 million in RTEP charges for the BLC project that had previously been allocated to Con Edison to HTP. Such costs are in addition to the $111 million in RTEP charges for the BLC project that had been previously allocated to HTP. RTEP costs relating to the BLC project would be paid over a number of years after construction commenced in 2017. Construction of the BLC project was completed in 2018.

From June 2013 through December 2018, the Authority has paid approximately $93 million in RTEP charges for the Line, including the BLC project and pre-2013 RTEP project allocations described below. In addition, the Authority expects to pay an additional approximately $3.8 million through July 2019 for the pre-2013 RTEP projects allocations described below. The pre-2013 RTEP project allocations arise from a contested settlement that FERC approved in May 2018 over the objections of the Authority and HTP.

In July 2017, the Authority, together with HTP, sought to relinquish the Firm Transmission Withdrawal Rights ("FTWRs") held by HTP on the Line. HTP's FTWRs formed the basis for the allocation of RTEP costs to HTP, which are the Authority's obligation under the FTCPA. In the resulting FERC order dated December 15, 2017, FERC determined that HTP may relinquish its firm rights effective immediately. Accordingly, when PJM's annual RTEP cost allocation update for 2018 was filed, the Authority's obligation to pay RTEP charges related to the BLC project was 100% eliminated for 2018 and beyond. FERC issued its March 5, 2018 order endorsing PJM's new cost allocation. Both the December 15, 2017 and the March 5, 2018 FERC orders are pending rehearing. On July 19, 2018, FERC established procedures to allow parties to resolve by settlement the continuing disputes in these and several other ongoing RTEP proceedings that relate to the allocation of BLC project costs. Settlement efforts commenced in August 2018 and those efforts are continuing. If no settlement is reached, FERC will need to issue orders deciding these proceedings.

On March 31, 2017, the Authority and HTP executed an amendment to the FTCPA. In exchange for the Authority extending the cure period for HTP to replace underwater cables that have been subject to failure and which have resulted in the Line being out of service, under the amended FTCPA the Authority received HTP's assurances to pursue certain remedies at FERC concerning the termination of the 320 MW of FTWRs in order to eliminate RTEP assessments and a guarantee that if PJM RTEP assessments cannot be eliminated despite HTP's efforts to terminate the FTWRs, that HTP will cancel its interconnection service agreement ("ISA") to physically disconnect the Line from the PJM transmission system, causing termination of all RTEP allocations. The FERC orders from December 15, 2017 and March 5, 2018 have fulfilled the goal of eliminating the RTEP assessments associated with the BLC project (though subject to further legal processes as described above). In addition, the Authority and HTP agreed to: (a) based upon RTEP costs already paid, increase, by $40 million, the size of the tracking account that is used to offset the cost to purchase the Line at the end of the FTCPA term, at the Authority's option, and (b) shared rights to direct power on the Line in the opposite direction of its current flow should market conditions present revenue opportunities for selling capacity and energy from New York to New Jersey. In November 2017, HTP completed the cable replacement and, pursuant to the March 31, 2017 amendments, the Authority increased the leased portion of the Line's capacity from 75% to 87.12%, bringing the total leased capacity from 495 MW to 575 MW at a monthly capacity charge rate that represents a decrease in the unit price (on a $/MW-month basis) paid to HTP in the original FTCPA. The Authority estimates that increasing the leased portion of the line to 87.12% will increase its capacity payments by approximately $6 million to $9 million per year over the term of the FTCPA.

(c) *Small, Clean Power Plants*

To meet capacity deficiencies and ongoing load requirements in the New York City metropolitan area that could also adversely affect the statewide electric pool, the Authority has in operation, the Small, Clean Power Plants (SCPPs), consisting of eleven natural-gas-fueled combustion-turbine electric units, each having a nameplate rating of 47 MW at six sites in New York City and one site in the service region of LIPA.

As a result of the settlement of litigation relating to certain of the SCPPs, the Authority has agreed under the settlement agreement to cease operations at one of the SCPP sites, which houses two units, under certain conditions and if the Mayor of New York City directs such cessation. No such cessation has occurred.

(d) *Legal and Related Matters*

St. Regis Litigation

In 1982 and again in 1989, several groups of Mohawk Indians, including a Canadian Mohawk tribe, filed lawsuits (the St. Regis litigation) against the State, the Governor of the State, St. Lawrence and Franklin counties, the St. Lawrence Seaway Development Corporation, the Authority and others, claiming ownership to certain lands in St. Lawrence and Franklin counties and to Barnhart, Long Sault and Croil islands. These islands are within the boundary of the Authority's St. Lawrence-FDR Project and Barnhart Island is the location of significant Project facilities. Settlement discussions were held periodically between 1992 and 1998. In 1998, the Federal government intervened on behalf of all Mohawk plaintiffs.

The parties agreed to a land claim settlement, dated February 1, 2005, which if implemented would have included, among other things, the payment by the Authority of $2 million a year for 35 years to the tribal plaintiffs and the provision of up to 9 MW of low cost Authority power for use on the reservation. The legislation required to effectuate the settlement was never enacted and the litigation continued.

In 2013, all claims against the Authority were dismissed and the lawsuit against the Authority was concluded. On May 28, 2014, the State of New York, the St. Regis Mohawk Tribe, St. Lawrence County and the Authority executed a Memorandum of Understanding (St. Regis MOU) that outlined a framework for the

possible settlement of all the St. Regis land claims. In the St. Regis MOU, the Authority endorses a negotiated settlement that, among other terms and conditions, would require the Authority to pay the Tribe $2 million a year for 35 years and provide up to 9 MW of its hydropower at preference power rates to serve the needs of the Tribe's Reservation. The St. Regis MOU would require an Act of Congress to forever extinguish all Mohawk land claims prior to such a settlement becoming effective.

Any settlement agreement, including the terms endorsed in the St. Regis MOU, would in the first instance need to be negotiated and agreed upon by all parties to the St. Regis litigation, including parties that did not execute the St. Regis MOU, such as the two other Mohawk groups, the federal government and Franklin County. In addition, before any settlement becomes effective and the Authority is obligated to make any payments contemplated by the St. Regis MOU, federal and state legislation must be enacted which approves the settlement and extinguishes all Mohawk land claims.

Auer. V. NYPA

The surviving plaintiff of a case known as Auer I, which resulted in a 1984 order issued by Judge Tenney of the New York State Supreme Court, Oswego County, brought an enforcement action seeking to enforce the 1984 order. The 1984 order related to the manner in which the Authority computes its rates for its preference power customers. By statute, those rates must be as low as possible, which essentially means the Authority must sell the power at its cost. The plaintiff contends that the Authority's rate-making methodology does not adhere to the statutory scheme nor spirit of the Auer I order and subsequent settlement. The plaintiff is seeking monetary damages of an unspecified amount. The plaintiff has also made a motion to add certain other residential customers of certain New York municipal electric systems to the action as additional plaintiffs.

The Authority successfully made a motion to transfer the venue from New York State Supreme Court in Oswego County to the same court in Albany County. The Authority has a motion pending in Albany County to dismiss the action on multiple grounds. Plaintiff has appealed the Oswego Judge's decision to transfer venue and is seeking a stay of the proceedings while the motion is pending.

The Authority disputes the plaintiff's rationale and will defend the claim on both substantive and procedural grounds.

Long Island Sound Cable Project

In January 2014, one of the Sound Cable Project underwater cables was severely impacted by an anchor and /or anchor chain dropped by one or more vessels, causing the entire electrical circuit to fail and the circuit to trip. As a result of the impact to the cable, dielectric fluid was released into Long Island Sound. The Authority incurred approximately $35 million in costs arising from this incident. At December 31, 2018 and December 31, 2017, the consolidated statements of net position includes approximately $18 million and $17 million, respectively, in other long-term assets, reflecting the cost of damages net of insurance recoveries. The Authority believes that it will be able to recover the full amount of its damages through legal proceedings, insurance coverage and contractual obligations.

Helicopter Incident Near the Authority's Transmission Lines in Beekmantown, New York

The Authority contracted with Northline Utilities, LLC ("Northline") to install fiber optic ground wire along the Authority's transmission system. Thereafter, Northline entered into a contract with Catalyst Aviation, LLC ("Catalyst") for helicopter services. On October 30, 2018, a Catalyst helicopter was destroyed when it collided with a wooden utility pole and power lines near Beekmantown, New York. Members of the helicopter crew were injured, and two members of that crew died as a result of their injuries. To date, the Authority has received two notices of claim arising out of this incident. The Authority has demanded that

Northline and its insurer defend and indemnify the Authority against any litigation that may arise from the notices of claim or this incident.

Other Actions or Claims

In addition to the matters described above, other actions or claims against the Authority are pending for the taking of property in connection with its projects, for negligence, for personal injury (including asbestos-related injuries), in contract, and for environmental, employment and other matters. All of such other actions or claims will, in the opinion of the Authority, be disposed of within the amounts of the Authority's insurance coverage, where applicable, or the amount which the Authority has available therefore and without any material adverse effect on the business of the Authority. While the Authority cannot presently predict the outcome of the matters described above or any related litigation, the Authority believes that it has meritorious defenses and positions with respect thereto. However, adverse decisions of a certain type in the matters discussed above could adversely affect Authority operations and revenues.

(e) *New York State Budget and Other Matters*

Section 1011 of the Power Authority Act (Act) constitutes a pledge of the State to holders of Authority obligations not to limit or alter the rights vested in the Authority by the Act until such obligations together with the interest thereon are fully met and discharged or unless adequate provision is made by law for the protection of the holders thereof. Bills are periodically introduced into the State Legislature, which propose to limit or restrict the powers, rights and exemption from regulation that the Authority currently possesses under the Act and other applicable law or otherwise would affect the Authority's financial condition or its ability to conduct its business, activities, or operations, in the manner presently conducted or contemplated by the Authority. It is not possible to predict whether any such bills or other bills of a similar type which may be introduced in the future will be enacted.

In addition, from time to time, legislation is enacted into New York law that purports to impose financial and other obligations on the Authority, either individually or along with other public authorities or governmental entities. The applicability of such provisions to the Authority would depend upon, among other things, the nature of the obligations imposed and the applicability of the pledge of the State set forth in Section 1011 of the Act to such provisions. There can be no assurance that in the case of each such provision, the Authority will be immune from the financial obligations imposed by such provision. Examples of such legislation affecting only the Authority include legislation, discussed below and elsewhere herein, relating to the Authority's voluntary contributions to the State, the Authority's temporary transfer of funds to the State, and contributions and transfers to fund temporary and permanent programs administered by the Authority and other State entities.

Budget

The Authority is requested, from time to time, to make financial contributions or transfers of funds to the State. Any such contribution or transfer of funds must (i) be authorized by law (typically, legislation enacted in connection with the State budget), and (ii) satisfy the requirements of the Bond Resolution. The Bond Resolution requirements to withdraw moneys "free and clear of the lien and pledge created by the (Bond) Resolution" are as follows: (1) such withdrawal must be for a "lawful corporate purpose as determined by the Authority," and (2) the Authority must determine "taking into account, among other considerations, anticipated future receipt of Revenues or other moneys constituting part of the Trust Estate, that the funds to be so withdrawn are not needed" for (a) payment of reasonable and necessary operating expenses, (b) an Operating Fund reserve for working capital, emergency repairs or replacements, major renewals, or for retirement from service, decommissioning or disposal of facilities, (c) payment of, or accumulation of a reserve for payment of, interest and principal on senior debt, or (d) payment of interest and principal on subordinate debt.

In May 2011, the Authority's Trustees adopted a policy statement (Policy Statement) which relates to, among other things, voluntary contributions, transfers, or other payments to the State by the Authority after that date. The Policy Statement provides, among other things, that in deciding whether to make such contributions, transfers, or payments, the Authority shall use as a reference point the maintenance of a debt service coverage ratio of at least 2.0 (this reference point should not be interpreted as a covenant to maintain any particular coverage ratio), in addition to making the other determinations required by the Bond Resolution. The Policy Statement may at any time be modified or eliminated at the discretion of the Authority's Trustees.

The 2018-2019 Enacted State Budget contains a provision authorizing the Authority as deemed "feasible and advisable by its trustees" to transfer to the State treasury to the credit of the general fund $20 million for the State fiscal year commencing April 1, 2018, the proceeds of which will be utilized to support energy-related State activities.

The 2019-2020 Executive Budget Proposal contains a provision authorizing the Authority as deemed "feasible and advisable by its trustees" to transfer to the State treasury to the credit of the general fund $20 million for the State fiscal year commencing April 1, 2019, the proceeds of which will be utilized to support energy-related State activities.

The Authority cannot predict what additional voluntary contributions or transfers to the State may be authorized by law in the future nor whether its Trustees will authorize such voluntary contributions or transfers.

Temporary Asset Transfers

In addition to the authorization for voluntary contributions, as a result of budget legislation enacted in February 2009, the Authority was requested to provide temporary asset transfers to the State of funds held in reserves. Pursuant to the terms of a Memorandum of Understanding dated February 2009 (MOU) between the State, acting by and through the State's Director of Budget, and the Authority, the Authority agreed to transfer approximately $215 million associated with its Spent Nuclear Fuel Reserves (Asset B) by March 27, 2009. The Spent Nuclear Fuel Reserves are funds that had been set aside for payment to the federal government sometime in the future when the federal government accepts the spent nuclear fuel for permanent storage (see Note [J] – "Nuclear Plant Divestiture and Related Matters"). The MOU provides for the return of these funds to the Authority, subject to appropriation by the State Legislature and the other conditions described below, at the earlier of the Authority's payment obligation related to the transfer and disposal of the spent nuclear fuel or September 30, 2017. Further, the MOU provides for the Authority to transfer within 180 days of the enactment of the 2009-2010 State budget $103 million of funds set aside for future construction projects (Asset A), which amounts would be returned to the Authority, subject to appropriation by the State Legislature and the other conditions described below, at the earlier of when required for operating, capital or debt service obligations of the Authority or September 30, 2014. The MOU provides that the obligation of the State to return all or a portion of an amount equal to the moneys transferred by the Authority to the State is subject to annual appropriation by the State Legislature. Further, the MOU provides that as a condition to any such appropriation for the return of the moneys earlier than September 30, 2017 for the Spent Nuclear Fuel Reserves and earlier than September 30, 2014 for the construction projects, the Authority must certify that the monies available to the Authority are not sufficient to satisfy the purposes for which the reserves, which are the source of the funds for the transfer, were established.

In February 2009, the Authority's Trustees authorized the execution of the MOU relating to the temporary transfers of Asset B ($215 million) and Asset A ($103 million) and such transfers were made in March 2009 and September 2009, respectively, following Trustee approval.

In lieu of interest payments, the State has waived certain future payments from the Authority to the State. The waived payments include the Authority's obligation to pay until September 30, 2017 the amounts to which the State is entitled under a governmental cost recovery process for the costs of central governmental services. These payments would have been approximately $5 million per year based on current estimates but the waiver is limited to a maximum of $45 million in the aggregate during the period. Further, the obligation to make payments in support of certain State park properties and for the upkeep of State lands adjacent to the Niagara and St. Lawrence power plants is waived from April 1, 2011 to March 31, 2017. These payments would have been approximately $8 million per year but the waiver would be limited to a maximum of $43 million for the period. The present value of the waivers approximates the present value of the forgone interest income. In the Second Amendment to the MOU discussed below, the Authority and the State agreed to enter into alternative cost recovery agreements for each of State Fiscal Year 2017-18 through State Fiscal Year 2022-23 that the asset transfers have not been fully returned to the Authority. The alternative cost recovery agreements would relieve the Authority of any obligation to make up to $5 million in cost recovery assessment payments to the State in each year. In the event that the cost recovery assessment for a given year exceeds $5 million, the assessment due from the Authority would be limited to the difference between the assessment and $5 million. The State and the Authority entered into the first such alternative cost recovery agreement, dated as of March 31, 2017, with respect to State Fiscal Year 2017-18. In accordance with such agreement, the Authority was not charged an assessment for such State Fiscal Year.

On April 24, 2014, the Authority and the State executed an Amendment to the MOU which provides that the State shall, subject to appropriation by the State Legislature, return the $103 million (Asset A) in five installments in the following amounts and by no later than September 30 of each of the following State fiscal years: (1) $18 million for State Fiscal Year 2014-2015; (2) $21 million for State Fiscal Year 2015-2016; (3) $21 million for State Fiscal Year 2016-2017; (4) $21 million for State Fiscal Year 2017-2018; and (5) $22 million for State Fiscal Year 2018-2019. By its terms, the Amendment to the MOU became effective when it was approved and ratified by the Authority's Board of Trustees on July 29, 2014. The Authority has received cumulative installment payments of $103 million as of December 31, 2018.

The Authority and the State executed a Second Amendment to the MOU, dated as of June 30, 2017, that provides for the return to the Authority of the $215 million (Asset B) in the following amounts and by no later than September 30 of each of the following State fiscal years: (1) $22 million for State Fiscal Year 2017-18, (2) $21 million for State Fiscal Year 2018-19, (3) $43 million for State Fiscal Year 2019-20, (4) $43 million for State Fiscal Year 2020-21, (5) $43 million for State Fiscal Year 2021-22, and (6) $43 million for State Fiscal Year 2022-23. The obligation of the State to return the moneys transferred by the Authority to the State is subject to annual appropriation by the State Legislature. The Authority has received cumulative installment payments of $43 million as of December 31, 2018. The asset transfers are reported in miscellaneous receivables and other ($43 million and $43 million as of December 31, 2018 and December 31, 2017, respectively) and in other noncurrent assets ($129 million and $172 million at December 31, 2018 and December 31, 2017, respectively) in the statements of net position.

(f) *Relicensing of Niagara*

By order issued March 15, 2007, FERC issued the Authority a new 50-year license for the Niagara project effective September 1, 2007. In doing so, FERC approved six relicensing settlement agreements entered into by the Authority with various public and private entities. By decision dated March 13, 2009, the U.S. Court of Appeals for the District of Columbia Circuit denied a petition for review of FERC's order filed by certain entities, thereby concluding all litigation involving FERC's issuance of the new license. In 2007, the Authority estimated that the capital cost associated with the relicensing of the Niagara project would be approximately $495 million. This estimate does not include the value of the power allocations and operation and maintenance expenses associated with several habitat and recreational elements of the settlement agreements. As of December 31, 2018, the balance in the recorded liability associated with the relicensing

on the statement of net position is $267 million ($23 million in current and $244 million in other noncurrent liabilities).

In addition to internally generated funds, the Authority issued additional debt obligations in October 2007 to fund, among other things, Niagara relicensing costs. The costs associated with the relicensing of the Niagara project, including the debt issued therefore, were incorporated into the cost-based rates of the project beginning in 2007.

New York State Office of Parks, Recreation and Historic Preservation

On July 18, 2005, the Authority executed the Relicensing Settlement Agreement Addressing New License Terms and Conditions ("Settlement Agreement") entered into by several parties to the relicensing of the Niagara Project, including The New York State Office of Parks, Recreation and Historic Preservation ("OPRHP"). The Settlement Agreement provides, among other things, for the establishment of a Relicensing Settlement Agreement State Parks Greenway Fund, which is to be funded by the Authority in the amount of $3 million per year to OPRHP for the term of the 50-year License. In 2012 and 2017, OPRHP requested that the Authority accelerate such payments by making two lump sum payments of approximately $25 million each to pay for authorized projects. In order to make the lump sum payments, the Authority issued (a) $25.2 million in subordinated notes in 2012 and (b) $25.2 million in subordinated notes in 2017. The proceeds of those subordinated note issuances were made available to OPRHP (see Note 6 "Long-Term Debt – Subordinate Debt" of notes to the financial statements).

(g) *St. Lawrence-FDR Relicensing – Local Task Force Agreement*

The St. Lawrence-FDR Power Project No. 2000 Relicensing Agreement ("LGTFSA") between the Authority and the Local Government Task Force ("LGTF") provides for a review of the LGTFSA every ten years to discuss issues not contemplated at the time of relicensing in 2003. The first such review commenced in December 2013. The Authority and the LGTF entered into an agreement effective May 4, 2015 in which the Authority agreed to commit up to $45.1 million over 10 years for certain actions, including to: (1) fund an economic development strategic marketing study (the "Marketing Study"); (2) temporarily reduce electricity costs for certain farms and businesses (the "Discount Program"); (3) initiate an energy efficiency and renewable energy program for the LGTF communities; and (4) enhance certain recreational facilities in the LGTF communities.

In July 2016, the Authority's Trustees approved a proposal to terminate the Discount Program early and repurpose funding to be used to support a collaborative marketing effort between the Authority and North Country communities through the St. Lawrence County Economic Development Study Advisory Board created in connection with the Marketing Study at the rate of $2 million/year for five years ($10 million total) commencing in 2017.

At their meeting on July 25, 2017, the Authority's Trustees approved: (1) a new temporary business incentive program consisting of a monetary discount or rebate that would be payable to eligible private business applicants who agree to establish new business operations in certain North Country counties ("Business Incentive Discount Program"); and (2) the repurposing of funds previously approved for the marketing effort to include funding for the Business Incentive Discount Program. Funding repurposed for the marketing effort, including the Business Incentive Discount Program, would not exceed a total of $10 million.

As of December 31, 2018, the Authority has spent approximately $27 million of the $45.1 million authorized by the Trustees.

(h) *Regional Greenhouse Gas Initiative, Clean Power Plant Rule, Proposed Affordable Clean Energy Rule and Air Pollution Rule*

The Regional Greenhouse Gas Initiative (the "RGGI") is a cooperative effort by Northeastern and Mid-Atlantic states, including New York, to reduce carbon dioxide emission levels. Participating states have established a regional carbon dioxide emissions cap from the power sector (fossil fuel-fired power plants 25MW or greater). The emissions cap reduces by 2.5% annually until 2020. Central to this initiative is the implementation of a multi-state cap-and-trade program with a market-based emissions trading system. The program requires electricity generators to hold carbon dioxide allowances in a compliance account in a quantity that matches their total emissions of carbon dioxide for the compliance period. The Authority's Flynn plant, the SCPPs, and 500-MW Plant are subject to the RGGI requirements as is the Astoria Energy II plant. The Authority has participated in program auctions to acquire carbon dioxide allowances, which the Authority requires to cover operation of its fossil-fueled power plants and the Astoria Energy II plant, and expects to recover RGGI costs through its power sales revenues. The number of allowances offered in the auction by RGGI cap and trade program was reduced from allowances covering 165 million tons of carbon dioxide emissions in 2013 to 60.3 million tons in 2018, and will decline by 2.5% each year through 2020. On December 19, 2017, the RGGI states released an updated Model Rule that includes an additional 30% regional cap reduction between 2020 and 2030. The Authority is monitoring federal legislation and proposed programs that would impact RGGI.

On August 3, 2015, the United States Environmental Protection Agency (“EPA”) released its final Clean Power Plan (“CPP”) Rule for existing power plants to reduce carbon dioxide emissions nationwide from electric utility generating units. The CPP Rule was stayed by the U.S. Supreme Court on February 9, 2016 pending disposition of petitions for review before the U.S. Court of Appeals for the District of Columbia Circuit. Thereafter, the D.C. Circuit Court granted EPA’s motion to suspend cases challenging the CPP Rule to give the current EPA administration time to review the rule. On August 21, 2018, the EPA proposed the Affordable Clean Energy (“ACE”) Rule to replace CPP. ACE establishes guidelines for states, including New York, to use when developing plans to limit carbon dioxide emissions from coal-fired power plants. The EPA is expected to issue the ACE Rule in the second quarter of 2019. The Authority continues to monitor developments in this area.

During 2011, the EPA issued a series of rulings to establish the Cross-State Air Pollution Rule ("CSAPR"), which was updated in 2016. The CSAPR establishes emission allowance budgets for sulfur dioxide and nitrogen oxides for eastern states, including New York, and requires power plants in those states to hold allowances to cover their emissions. Certain trading of allowances is authorized under the CSAPR. In July 2018, a proposed determination published by the EPA found that the 2016 CSAPR Update to the National Ambient Air Quality Standards (“NAAQS”) was sufficient to address the good neighbor provisions of the Clean Air Act, and that no further rulemaking is required to address out-of-state emissions as additional upwind reductions are not required to meet the 2008 ozone NAAQS. The Authority continues to operate its fossil-fueled plants within the allocated allowances and anticipates that operation of its fossil-fueled plants will not be impacted by CSAPR.

(i) *Certain Solar and Energy Efficiency Initiatives*

In March 2012, the Authority’s Trustees authorized up to $30 million in funding over five years for a solar market acceleration program involving solar research, training, and demonstration projects. In January 2017, the Authority’s Trustees extended the program through December 2018. As of December 31, 2018, the Authority has approved the award of contracts with cumulative value of up to approximately $6.7 million.

In June 2012, the Authority’s Trustees authorized up to $30 million in funding over five years for an energy efficiency market acceleration program involving energy efficiency research, demonstration projects, and market development. In January 2017, the Authority’s Trustees extended the program through December

2018. As of December 31, 2018, the Authority has approved the award of contracts with a cumulative value of up to approximately $17 million.

In February 2015, the Authority's Trustees authorized up to $12 million in funding over two years for initial implementation of the Five Cities Energy Plans for the cities of Albany, Buffalo, Rochester, Syracuse and Yonkers. In January 2017, the Authority's Trustees extended the program through December 2018. As of December 31, 2018, the Authority has approved the award of contracts with a cumulative value of approximately $9.7 million.

(j) *Construction Contracts and Net Operating Leases*

Estimated costs to be incurred on outstanding contracts in connection with the Authority's construction programs aggregated approximately $597 million at December 31, 2018.

Noncancelable operating leases primarily include leases on real property (office and warehousing facilities and land) utilized in the Authority's operations. Rental expense for years ended December 31, 2018 and 2017 was $3.2 million and $2.6 million, respectively. Commitments under noncancelable operating leases are as follows:

	Total	2019	2020	2021	2022	2023	Thereafter
				(In millions)			
Operating leases	$ 6.5	1.6	1.2	0.8	0.8	0.7	1.4

(k) *Other Developments*

New York Energy Highway

In January 2012, the Governor of New York announced the New York Energy Highway initiative, which is envisioned as a public-private partnership to upgrade and modernize the State's electric power system. The Governor formed a task force comprised of various State officials to oversee implementation of the initiative (Task Force) which was co-chaired by the Authority's President and Chief Executive Officer. In April 2012, the Task Force issued a request for information seeking ideas and proposals in furtherance of the initiative. Approximately 85 organizations responded to the Task Force's request for *information* and the responses included a large number of different generation and transmission project proposals. Based on the response of all these organizations, the Energy Highway Task Force issued an action plan in October 2012. The resulting Energy Highway Blueprint, calling for public and private investments in the State's energy system of about $5.7 billion over the next five to 10 years, proposed 13 specific actions, divided among four major categories: Expand and Strengthen the System, Accelerate Construction and Repair, Support Clean Energy and Technology Innovation.

In November 2012, the NYPSC announced new proceedings addressing various actions described in the Blueprint including (i) the initiation of electric transmission upgrades to move excess power from upstate to downstate (AC Transmission), (ii) the creation of a contingency plan to prepare for a large generator retirement (Generation Retirement Contingency Plan) and (iii) the expansion of natural gas delivery to homeowners and businesses in New York State.

In its November 4, 2013 Generation Retirement Contingency Plan Order, the NYPSC selected three transmission projects (TOTS projects) to be built by Consolidated Edison, New York State Electric and Gas (NYSEG) and the Authority. The NYPSC also requested that the New York Transmission Owners (NYTOs), comprised of the State's largest public utilities, LIPA, and the Authority, seek Federal Energy Regulatory

Commission (FERC) approval for the three TOTS projects. On December 4, 2014, the NYTOs on behalf of themselves and the transco (Four-Party Transco) formed by affiliates of the NYTOs that does not include LIPA or the Authority filed applications at FERC to permit the transfer of certain transmission assets to the Four-Party Transco. The Four-Party Transco also filed an application for cost allocation and recovery for five projects, including the three TOTS projects. The Authority co-developed one of the TOTS projects, the Marcy-South Series Compensation, with NYSEG and has also completed a negotiated settlement at FERC to recover the costs of its portion of that project.

Build Smart NY Initiative

On December 28, 2012, the Governor of New York issued Executive Order No. 88 (EO 88) directing state agencies collectively to reduce energy consumption in state-owned and managed buildings by 20 percent within seven years – an initiative designed to produce significant savings for New York taxpayers, generate jobs, and significantly reduce greenhouse gas emissions. To meet this initiative, the Governor launched Build Smart NY, a plan to strategically implement EO 88 by accelerating priority improvements in energy performance. The Authority has offered to provide $450 million in low-cost financing for this initiative for state owned buildings and an additional $350 million for towns and municipalities. Such low-cost financing would be funded by proceeds of the Authority's commercial paper or another form of debt. The Authority's costs of financing would be recovered from the energy efficiency customers in this program. In addition, as provided for in EO 88, the Authority has established a central management and implementation team which designed implementation guidelines milestones and data collection and analysis systems to support the program. The team conducts routine outreach and meetings with affected state agencies and has commenced the implementation phase of the Build Smart NY program. As of December 31, 2018, the Authority has in aggregate provided approximately $511.6 million in financing for energy efficiency projects at State agencies and authorities covered by EO 88.

Clean Energy Standard

On August 1, 2016, the NYPSC issued an order establishing a Clean Energy Standard (the "CES Order") to implement the clean energy goals of the State Energy Plan. Pursuant to the CES Order, load serving entities identified in the order are required to purchase "Zero Emission Credits" ("ZECs") from the New York State Energy Research Development Authority ("NYSERDA") to support the preservation of existing at-risk zero emissions nuclear generation. The Authority is not subject to NYPSC jurisdiction for purposes of the CES Order but has assumed an obligation to purchase ZECs consistent with the terms of the CES Order and intends to seek recovery of such costs from the Authority's customers. On January 31, 2017, the Authority's Trustees authorized (a) participation in the NYPSC's ZEC program and (b) execution of an agreement with NYSERDA to purchase ZECs associated with the Authority's applicable share of energy sales. The Authority and NYSERDA executed an agreement covering a two year period from April 1, 2017 to March 31, 2019 under which the Authority committed to purchase ZECs in a quantity based on its proportional load in the New York control area. As of December 2018, the Authority estimates that it will incur ZEC purchase costs associated with participation in the ZEC program of approximately $268.4 million in aggregate over the 2019-2022 period, of which approximately $14.8 million is not expected to be recovered under customer contracts that predate the adoption of the CES Order. As of December 31, 2018, the Authority has paid $83.6 million in ZEC purchase costs.

AGILe

The Authority, in collaboration with the State utilities, NYSERDA and NYISO, has developed an advanced grid innovation lab for energy ("AGILe") to create new tools to better monitor, control, accommodate and respond to the evolving energy sector. Costs to the Authority are estimated at $20 million over the initial three year period and are not expected to exceed $50 million through final build-out of the facility. Upon completion, operating and maintenance costs are expected to be shared among AGILe participants. On July 25, 2017, the Authority's Trustees authorized capital expenditures in the amount of $20 million for the initial

phase of AGILe, which has since commenced. As of December 31, approximately $3.7 million has been spent.

Certain Projects with the Triborough Bridge and Tunnel Authority

The Authority commenced a project to finance and install multi-purpose energy efficiency and security projects on bridges and tunnels in the New York City metropolitan region in conjunction with the Triborough Bridge and Tunnel Authority. The Authority expects to be reimbursed for the cost of this project through State infrastructure and economic development funds.

Moses Adirondack Line

The Authority is moving forward with its plans to replace a major section of the Moses Adirondack Line, one of the Authority's backbone transmission facilities. The replacement project covers 78 miles of 230 kV transmission line from Massena to the town of Croghan in Lewis County. In July 2017, the Authority received authorization under the NYISO tariff to include the costs of this replacement project in its NYPA Transmission Adjustment Charge mechanism for cost recovery of the Authority's transmission system costs, which means that the costs will be allocated to all ratepayers in the State. The project includes the replacement of obsolete wood pole structures with higher, steel pole structures, as well as replacement of failing conductor with new conductor and insulation. The line will operate at its current 230 kV level, but the conductor and insulation design will accommodate future 345 kV operation. The Authority anticipates that the Moses Adirondack line will support the transmission of growing levels of renewable generation located in upstate New York and Canada, such as wind and hydroelectricity, and assist in meeting the State's renewable energy goals. The rebuilt line is also expected to enhance grid reliability by supporting the NYISO's black start plan. On September 21, 2018, the Public Service Commission determined that the Authority's April 2018 Article VII application was complete. In 2018, the Authority estimated a project cost of $484 million. Construction is expected to take four years and begin in 2020.

Niagara Parkway Redevelopment

The State plans to replace an underutilized two-mile stretch of the Robert Moses Parkway North in Niagara Falls with open space, scenic overlooks and recreational trails. Construction commenced in 2018 and is expected to take approximately three years to complete with funding to be provided by the Authority. As of December 31, 2018, the Authority's Trustees have approved up to $42 million in funding by the Authority. As of December 31, 2018, the Authority has disbursed approximately $4.4 million.

Electric Vehicle Acceleration Initiative

In May 2018, the Authority's Trustees approved an overall allocation of up to $250 million to be used through 2025 for an electric vehicle acceleration initiative and authorized $40 million for the first phase of the initiative.

Carbon Free Flexibility Initiative

In December 2018, the Authority's Trustees approved the development of a carbon free flexibility initiative through 2025 at a cost of up to $250 million and authorized up to $65 million for the first phase of the initiative.

Large-Scale Renewable Program

In support of the Clean Energy Standard goal for the State to achieve 50% renewable energy by 2030, the Authority issued a request for proposals in June 2017 to solicit renewable energy credits, energy and capacity from eligible large-scale renewable projects with a minimum size of 5MW, 10MW or 20MW, depending on

the underlying technology. On January 30, 2019, the Authority's Trustees approved the award of a 20-year power purchase agreement to Canisteo Wind Energy LLC for energy, capacity and renewable energy credits to be generated from a to-be-constructed 290 MW wind project. The project is expected to be in-service by December 31, 2020. Costs associated with the agreement are expected to be recovered through sales of energy and capacity through the NYISO and sales of RECs to the Authority's customers.

(14) Canal Corporation

The Canal Transfer Legislation enacted April 4, 2016, authorized, but does not require, the Authority, to the extent that the Authority's Trustees deem it feasible and advisable as required by the Resolution, to transfer moneys, property and personnel to the Canal Corporation.

The Canal Corporation operates at a loss and is expected to require substantial operating and maintenance support and capital investment. The Canal Corporation's expenses are expected to be funded by transfers of funds from the Authority. Any transfer of funds would be subject to approval by the Authority's Board of Trustees and compliance with the Authority's General Resolution Authorizing Revenue Obligations, as amended and supplemented. Certain expenses eligible for reimbursement are expected to be reimbursed to the Authority by moneys held in the Canal Development Fund maintained by the State Comptroller and the Commissioner of Taxation and Finance. For the year ended December 31, 2018, the Canal Corporation recognized $2 million in revenues, $101 million in operations and maintenance expenses and $23 million in depreciation expense. For the year ended December 31, 2017, the Canal Corporation recognized $2 million in revenues, $93 million in operations and maintenance expenses and $23 million in depreciation expense.

REQUIRED SUPPLEMENTARY INFORMATION
(UNAUDITED)

New York Power Authority

Required Supplementary Information

(Unaudited)

Schedule of Changes in the New York Power Authority's Net OPEB Liability and Related Ratios

($ in millions, expect percentages)

	2018	2017
Total OPEB liability		
Service cost	$ 13	$ 12
Interest	37	36
Change of benefit terms	–	–
Differences between expected and actual experience	–	–
Change of assumptions	–	–
Benefit payments	(25)	(22)
Net change in total OPEB liability	25	26
Total OPEB liability - beginning	535	509
Total OPEB liability – ending	$ 560	$ 535
Plan fiduciary net position		
Contributions – employer	25	22
Net investment income	(36)	88
Benefit payments	(25)	(22)
Administrative expense	(2)	(2)
Net change in plan fiduciary net position	(38)	86
Plan fiduciary net position - beginning	603	517
Plan fiduciary net position - ending	$ 565	$ 603
Net OPEB liability / (asset) - ending	$ (5)	$ (68)
Plan fiduciary net position as a percentage of the total OPEB liability	101%	113%
Covered-employee payroll	$ 182	$ 177
Total OPEB liability as a percentage of covered-employee payroll	307%	302%
Net OPEB liability / (asset) as a percentage of covered-employee payroll	(3)%	(38)%

Notes to schedule:

The amounts presented for 2018 were determined based on a roll-forward of the Power Authority OPEB Plan's December 31, 2017 biennial actuarial valuation.

This schedule is intended to present 10 years of data. Additional years will be presented prospectively.

New York Power Authority

Required Supplementary Information

(Unaudited)

Schedule of the New York Power Authority's OPEB Contributions

($ in millions, expect percentages)

Year Ending December 31,	(a) Contractually / Actuarially determined contribution	(b) Contributions made	Contribution deficiency / (excess)	(c) Covered employee payroll	Contributions as a percent of covered employee payroll column (b ÷ c)
2018	$ 25	$ 25	$ -	$ 177	14%
2017	40	22	18	166	13%
2016	39	24	15	161	15%
2015	38	38	-	149	25%
2014	33	39	(1)	145	27%
2013	41	42	(1)	147	29%
2012	41	41	-	143	29%
2011	35	60	(25)	144	42%
2010	32	17	15	140	12%
2009	24	16	8	138	12%

Notes to schedule:

Contributions: The Power Authority made contributions on a pay as you go basis in 2018 and 2017 and did not contribute any amount beyond the contractually / actuarially required amounts.

Valuation date:	12/31/2017
Methods and assumptions used to determine contributions:	
Actuarial cost method:	Entry Age Normal, Level Percent of Salary
Amortization period:	Five-year period for differences between the expected earnings on plan investments and actual returns. Differences in assumptions and experience are recognized over the average remaining service lives of all employees that are provided with benefits through the plan.
Asset Valuation:	Market Value.
Per Capita Claims:	Developed using 2018 projected funding rates using NYPA claims experience from January 1, 2016 through July 1, 2017.
Salary increases:	Varies by service, average of 4.5 percent for 1-5 years of service, 3.8 percent for 6-10 years of service, 3.3 percent for 11-15 years of service, and 3.0 percent for 20 years or more of service.
General inflation:	Consumer Price Index 2.5%
Participation rates:	Assumed 100% of future retirees who meet the eligibility requirements will participate in the OPEB plan.
Discount rate:	7.0%
Mortality:	Gender distinct pre and post-commencement rates based on experience under the New York State Local Retirement System. Base rates reflect a 2014 base year, and the MP-2017 Projection Scale is applied to the base rates.

New York Power Authority

Required Supplementary Information

(Unaudited)

Schedule of Investment Returns for the New York Power Authority OPEB Trust

Schedule of Investment Returns

Year Ending December 31,	Annual money-weighted rate of return, net of investment expense
2018	(6.30)%
2017	16.70%
2016	7.00%
2015	0.41%
2014	3.99%
2013	20.41%
2012	12.57%
2011	1.43%
2010	9.85%

Note:

This schedule is intended to present 10 years of data. Additional years will be presented when available.

New York Power Authority

Required Supplementary Information

(Unaudited)

Schedule of Changes in the Canal Corporation's Total OPEB Liability and Related Ratios

($ in millions, expect percentages)

	2018
Total OPEB liability	
Service cost	$ 7
Interest	8
Change of benefit terms	–
Differences between expected and actual experience	–
Change of assumptions	20
Benefit payments	(6)
Net change in total OPEB liability	29
Total OPEB liability - beginning	205
Total OPEB liability – ending	$ 234
Total OPEB liability - ending	$ 234
Covered-employee payroll	$ 24
Total OPEB liability as a percentage of covered-employee payroll	975%

Notes to Schedule:

Changes of assumptions: Changes of assumptions reflect the effect of changes in the S&P Municipal Bond 20 Year High Grade Rate index. The discount rate, based on this index, changed from 3.71% at December 31, 2016 to 3.16% at December 31, 2017.

New York Power Authority

Required Supplementary Information

(Unaudited)

Schedules Relating to the Employees' Retirement System Pension Plan

($ in millions, expect percentages)

Schedule of Proportionate Share of the Net Pension Liability

As of March 31,	Proportion of the Net Pension Liability (Asset) Percentage	Proportionate Share of the Net Pension Liability (Asset)	Covered Employee Payroll	Proportionate Share of the Net Pension Liability (Asset) as a percentage of Covered Payroll	Plan Fiduciary Net Position as a percentage of the Total Pension Liability
2018	0.72%	$ 23	$205	11.3%	98.2%
2017	0.72	67	193	35.0	94.7
2016	0.60	96	166	57.4	90.7
2015	0.59	20	150	13.3	97.9
2014	0.60	27	148	18.2	97.2

Schedule of Contributions

Year Ending December 31,	Actuarially Required Contribution	Actual Contribution	Contribution (Excess) Deficiency	Covered Employee Payroll	Contribution as a Percentage of Covered Payroll
2018	$ 28	$ 28	$ –	$ 205	14%
2017	28	28	–	193	14
2016	24	24	–	166	15
2015	25	25	–	150	17
2014	28	28	–	148	19
2013	29	29	–	146	20
2012	27	27	–	146	19
2011	21	21	–	141	15
2010	17	17	–	145	12
2009	10	10	–	139	7

KPMG LLP
345 Park Avenue
New York, NY 10154-0102

Independent Auditors' Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance With *Government Auditing Standards*

The Board of Trustees
Power Authority of the State of New York:

We have audited, in accordance with the auditing standards generally accepted in the United States of America; and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States the consolidated financial statements of the business-type activities and fiduciary funds of the Power Authority of the State of New York, (the Authority) and its blended component unit, as of and for the years ended December 31, 2018 and 2017, and the related notes to the consolidated financial statements, which collectively comprise the Authority's consolidated financial statements as listed in the table of contents, and have issued our report thereon dated March 26, 2019.

Internal Control Over Financial Reporting

In planning and performing our audit of the consolidated financial statements, we considered the Authority's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the consolidated financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control. Accordingly, we do not express an opinion on the effectiveness of the Authority's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's consolidated financial statements will not be prevented, or detected and corrected, on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Authority's consolidated financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

KPMG LLP is a Delaware limited liability partnership and the U.S. member firm of the KPMG network of independent member firms affiliated with KPMG International Cooperative ("KPMG International"), a Swiss entity.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the result of that testing, and not to provide an opinion on the effectiveness of the Authority's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Authority's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

KPMG LLP

New York, New York
March 26, 2019

Exhibit B

New York Power Authority
Consolidated Net Income - Actual vs. Budgeted
For The Year ended December 31, 2018
($ in millions)

	Actual	Budget	Variance Favorable/ (Unfavorable)
Operating Revenues			
Customer	$ 1,896	$ 1,861	$ 35
NYISO Market Revenues	793	844	(51)
	2,689	**2,705**	**(16)**
Operating Expenses			
Purchased Power	710	703	(7)
Fuel Consumed - Oil & Gas	189	218	29
Wheeling	654	645	(9)
Operations & Maintenance	679	689	10
Depreciation & Amortization	235	240	5
	2,467	**2,495**	**28**
Operating Income	**222**	**210**	**12**
Nonoperating Revenues			
Investment Income	23	19	4
	23	**19**	**4**
Nonoperating Expenses			
Interest and Other Expenses	143	152	9
	143	**152**	**9**
Net Income	**$ 102**	**$ 77**	**$ 25**

Net Income for the year ended December 31, 2018 was $102 million, which was $25 million higher than the budget of $77 million. The increase in net income was primarily attributable to lower operations and maintenance expenses ($10 million), lower depreciation ($5 million) due to less than planned capital spending, favorable mark to market gain on the Authority's investment portfolio ($4 million), and lower interest expense ($9 million) due to postponement of debt issuances to future periods.

Exhibit 4g ii-A
March 26, 2019

2018 Annual Report on
Investment of Authority Funds

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Section I

New York Power Authority
Guidelines for the Investment of Funds

I. General

These Guidelines for the Investment of Funds (the "Guidelines") are intended to effectuate the applicable provisions of the General Resolution Authorizing Revenue Obligations, adopted February 24, 1998 (the "Resolution"), the lien and pledge of which covers all accounts and funds of the Authority and that governs the Authority's existing policies and procedures concerning the investment of funds as contained in these Guidelines. In a conflict between the Guidelines and the Resolution, the latter shall prevail. In addition, these Guidelines are intended to effectuate the provisions of Section 2925 of the New York State Public Authorities Law.

II. Responsibility for Investments

The Treasurer and Deputy Treasurer have the responsibility for the investment of Authority funds under the general supervision of the Executive Vice President and Chief Financial Officer. The Treasurer shall ensure that an operating manual is maintained that provides a detailed description of procedures for maintaining records of investment transactions and related information.

III. Investment Goals

The Treasurer and Deputy Treasurer are responsible for maximizing the yield on investments consistent with requirements for safety, liquidity and minimization of risk. Monies will not be invested for terms in excess of the projected use of funds.

IV. Authorized Investments

A. Monies in funds established pursuant to the Resolution shall be invested in Authorized Investments or Authorized Certificates of Deposit, defined as follows:

"Authorized Investments" shall mean:

1. Direct obligations of or obligations guaranteed by the United States of America or the State of New York;

2. Bonds, debentures, notes or other obligations issued or guaranteed by any of the following: Federal National Mortgage Association (including Participation Certificates), Government National Mortgage Association, Federal Financing Bank, Federal Home Loan Mortgage Corporation and

Federal Home Loan Banks, Federal Housing Administration, Federal Farm Credit Banks Funding Corporation, Federal Farm Credit Banks, Federal Intermediate Credit Banks, Federal Banks for Cooperatives, Federal Land Banks or any other agency controlled or supervised by and acting as an instrumentality of the United States government;

3. Obligations of any state of the United States of America or any political subdivision thereof or any agency, instrumentality or local government unit of any such state or political subdivision that shall be rated at the time of the investment in any of the three highest long-term Rating Categories, as such term is defined in the Resolution, or the highest short-term Rating Category by a Rating Agency, as such term is defined in the Resolution.

4. Public Housing Bonds issued by Public Housing Authorities and fully secured as to the payment of both principal and interest by a pledge of annual contributions under an Annual Contributions Contract with the United States of America; or Project Notes issued by Local Public Agencies, in each case, fully secured as to the payment of both principal and interest by a requisition or payment agreement with the United States of America; provided that such Bonds or Notes are guaranteed by the United States of America.

5. Money market funds, as defined in the Investment Company Act of 1940, registered under the Federal Securities Act of 1933, and whose objective is to maintain a constant share value of $1.00, provided that: (a) no more than 5 percent of the total amount of the Authority's investments shall be invested in money market funds for more than thirty consecutive business days; and (b) no more than 10 percent of the total amount of the Authority's investments shall be invested in money market funds at any time.

"Authorized Certificate of Deposit" shall mean a certificate of deposit authorized by the Resolution as an "Authorized Investment."

B. The Authority, as an issuer of tax-exempt obligations, must not engage in any arbitrage practice prohibited by the arbitrage regulations promulgated under the Internal Revenue Code. In no event shall Authority funds be invested in a manner that would violate the provisions of such arbitrage regulations.

V. Provisions Relating to Qualifications of Dealers and Banks

A.1. The purchase and/or sale of Authorized Investments shall be transacted only through banks, trust companies or national banking associations (herein collectively termed "Banks") that are members of the Federal Reserve System and government security dealers (herein termed "Dealers"), which are Banks and Dealers reporting to, trading with and recognized as primary dealers by the

Federal Reserve Bank of New York. A list of authorized Banks and Dealers shall be maintained. Banks and Dealers shall have demonstrated an ability to:

a) offer superior rates or prices on the types and amounts of securities required;
b) provide a high degree of attention to the Authority's investment objectives; and
c) execute trades in a timely and accurate manner.

A.2. Authorized Investments may also be purchased or sold through minority-owned, women-owned, and service-disabled veteran owned firms authorized to transact business in the U.S. government and municipal securities markets. Such qualified firms shall demonstrate the qualities detailed in clauses (a), (b) and (c) of Section V.A.1.

A.3.A. Municipal securities qualifying as Authorized Investments may also be purchased or sold through any municipal bond dealer registered in the State of New York that demonstrates the qualities detailed in clauses (a), (b) and (c) of Section V.A.1.

B. Authorized Certificates of Deposit, time deposits ("Time Deposits"), and Money Market Funds shall be purchased directly from Banks that:
(1) are members of the Federal Reserve System transacting business in the State of New York;
(2) have capital and surplus aggregating at least $50 million; and
(3) demonstrate all the qualities detailed in clauses (a), (b) and (c) of Section V.A.1.

C. Authorized Investments purchased by the Authority or collateral securing its investments shall be deposited only with custodians designated by the Authority. Such custodians shall be Banks that are members of the Federal Reserve System transacting business in the State of New York or creditworthy banks or trust companies authorized to do business in the State of New York.

D. The Authority shall file with each qualified dealer a letter agreement that designates the (1) type of authorized investments, (2) Authority employees who are authorized to transact business and (3) delivery instructions for the safekeeping of investments.

E. The Authority shall enter into a written contract with any (1) Dealer from which Authorized Investments are purchased subject to a repurchase agreement and (2) Bank from which Authorized Certificates of Deposit are purchased.

VI. General Policies Governing Investment Transactions

A. Competitive quotations or negotiated prices shall be obtained except in the purchase of government securities at their initial auction or upon initial offering. A minimum of three quotes shall be obtained and documented from Dealers and/or Banks, except as indicated above, and the most favorable quote accepted. The Treasurer or Deputy Treasurer may waive this requirement on a single-transaction basis only if warranted by market conditions and documented in writing.

B. Authorized Investments purchased shall be either delivered to the Authority's designated custodian or, in the case of securities held in a book-entry account maintained at the Federal Reserve Bank of New York or the Depository Trust Company, recorded in the Authority's name or in the name of a nominee agent or custodian designated by the Authority on the books of the Federal Reserve Bank of New York or the Depository Trust Company. Payment shall be made to the Dealer or Bank only upon receipt by the Authority's custodian of (1) the securities or (2) in the case of securities held in a book-entry account, written advice or wire confirmation from the Federal Reserve Bank of New York or the Depository Trust Company that the necessary book entry has been made.

C. Each purchase or sale of Authorized Investments or Authorized Certificates of Deposit shall be authorized by the Treasurer or Deputy Treasurer. Investment orders may be placed by Authority employees as designated by the Treasurer. The custodian shall have standing instructions to send a transaction advice to the Authority's Controller for purposes of comparison with internal records. The Controller shall advise the Treasurer of any variances, and the Treasurer shall ensure appropriate corrections are provided.

VII. Policies Concerning Certain Types of Investment Diversification Standards Required

A. Authorized Certificates of Deposit and Time Deposits

1. Authorized Certificates of Deposit and Time Deposits shall be purchased directly from a Bank in the primary market.

2. Authorized Certificates of Deposit and Time Deposits shall be continuously secured/collateralized by Authorized Investments defined in subsection (1) or (2) of Section IV.A., having a market value (exclusive of accrued interest) at all times at least equal to the principal amount of such Certificates of Deposit or Time Deposits. Such Authorized Investments shall be segregated in a separate custodian account on behalf of the Authority. Collateral pledged for Certificates of Deposit or Time Deposits held as investments shall be market valued (marked to market) not less than once per week.

3. Investments in Authorized Certificates of Deposit or Time Deposits shall not exceed 25% of the Authority's invested funds. The par value of

Authorized Certificates of Deposit purchased from any one Bank shall not exceed $25 million.

B. **Repurchase Agreements**

The Authority may from time to time elect to enter into arrangements for the purchase and resale of Authorized Investments (known as "Repurchase Agreements"). This type of investment transaction shall be used only when there is no other viable, short-term investment alternative.

1. A Repurchase Agreement shall be transacted only with banks or trust companies authorized to do business in the State of New York or from broker dealers on the Federal Reserve Bank of New York's list of primary government securities dealers.

2. Authorized Investments purchased subject to a Repurchase Agreement shall be marked to market daily to ensure their value equals or exceeds the purchase price.

3. A Repurchase Agreement shall be limited to a maximum fixed term of five business days. Payment for the purchased securities shall be made against delivery to the Authority's designated custodian (which shall not be a party to the transaction as seller or seller's agent) or, in the case of securities held in a book-entry account maintained at the Federal Reserve Bank of New York or the Depository Trust Company, written advice that the securities are recorded in the Authority's name or in the name of a nominee, agent or custodian designated by the Authority on the books of the Federal Reserve Bank or the Depository Trust Company.

4. No more than $50 million of Authorized Investments shall be purchased under a Repurchase Agreement with any one Dealer or Bank. This requirement may be waived by the Executive Vice President and Chief Financial Officer on a single- transaction basis only if warranted by special circumstances and documented in writing.

5 The aggregate amount invested in Repurchase Agreements may not exceed the greater of 5% of the investment portfolio or $100 million. The Executive Vice President and Chief Financial Officer may waive this requirement on a single-transaction basis only if warranted by cash-flow requirements and documented in writing.

6 The Authority may not enter into arrangements (known as Reverse Repurchase Agreements) for the purpose of borrowing monies by pledging Authorized Investments owned by the Authority.

VIII. Review

These Guidelines and any proposed amendments shall be submitted for Trustee review and approval at least once a year.

In addition to the Authority's periodic review, the Authority's independent auditors, in connection with their examination of the Authority, shall perform an annual audit of the investment portfolio, review investment procedures and prepare a report, the results of which will be made available to the Trustees.

IX. Reports

A. The Treasurer shall submit an investment report to the Trustees, at least quarterly. Such report shall contain a (1) detailed description of each investment; (2) summary of the dealers and banks from which such securities were purchased and (3) a list of fees, commissions or other charges, if any, paid to advisors or other entities rendering investment services.

B. The Treasurer shall submit an annual report for approval by the Trustees. In addition to the information provided quarterly, the Annual Report shall include (i) a copy of the Guidelines; (ii) an explanation of the Guidelines and any amendments thereto since the last annual report; (iii) the results of an annual independent audit of investment inventory and procedures and (iv) a record of income earned on invested funds. The approved report shall be submitted to the State Division of the Budget with copies distributed to the Office of the State Comptroller, the Senate Finance Committee and the Assembly Ways and Means Committee. Copies shall be made available to the public upon written reasonable request.

C. Any waivers that occurred during the prior month shall be reported to the Executive Vice President and Chief Financial Officer.

X. Miscellaneous

A. These Guidelines are intended for guidance of officers and employees of the Authority only, and nothing contained herein is intended or shall be construed to confer upon any person, firm or corporation any right, remedy, claim or benefit under, or by reason of, any requirement or provision thereof.

B. Nothing contained in these Guidelines shall be deemed to alter, affect the validity of, modify the terms of or impair any contract, agreement or investment of funds made or entered into in violation of, or without compliance with, the provisions of these Guidelines.

C. No provisions in these Guidelines shall be the basis of any claim against any Trustee, officer or employee of the Authority in his or her individual or official capacity or against the Authority itself.

Section II

EXPLANATION OF INVESTMENT GUIDELINES

Section II Responsibility for Investments

Establishes responsibility for the Investment of Authority Funds and limits the number of individuals authorized to place investment orders.

Section III Investment Goal

Establishes the policy that earning a reasonable return on investments must be consistent with standards set for minimization of risk and availability of funds when needed.

Section IV Authorized Investments

Details the types of investments the Authority can undertake as prescribed in Section 101 of the Resolution.

This section also requires that investments made in each of the Funds established under the Resolution be invested for a term commensurate with cash-flow expectations and that such investments not violate the arbitrage regulations of the Internal Revenue Code.

Section V Provisions Relating to Qualifications of Dealers and Banks

Establishes criteria for the selection of banks and dealers from which the Authority may buy or sell investments. Business is transacted with firms that have demonstrated financial strength and a high degree of reliability with respect to servicing the Authority's needs. This section also directs that custody of Authority investments be maintained by banks that are members of the Federal Reserve System transacting business in the State of New York.

This section also addresses the subject of contracts with banks and dealers for the purchase or sale of Authorized Investments. The Authority has written Letters of Agreement with authorized dealers that specify the types of securities in which the Authority may invest and identify those Authority individuals authorized to give instructions related to the purchase and sale of securities. In addition, the Authority shall have a written form of agreement for use in repurchase transactions with any authorized dealer with which the Authority may transact this type of investment.

Section VI General Policies Governing Investment Transactions

Requires that the Authority solicit no less than three bids for the purchase or sale of securities in order to ensure the most favorable rate except when securities are purchased at their initial auction, upon new issue or through negotiated prices.

Requires that the Authority or its custodian, prior to payment, take possession of such securities, or in the case of book-entry securities, obtain written advice or wire confirmation that transfer or ownership has been recorded.

Establishes authorized employees to approve the purchase or sale of securities.

Establishes control procedures whereby the Controller shall compare the custodian's confirmation to Authority records.

Section VII Policy Concerning Certain Types of Investment Diversification Standards Required

Establishes a policy concerning the purchase of Authorized Certificates of Deposit and Time Deposits intended to minimize the risk associated with such transactions. Authorized Certificates of Deposit or Time Deposits may be purchased directly from a bank that is a member of the Federal Reserve System transacting business in the State of New York. Such deposits shall be continuously secured by Authorized Investments as outlined in subsection (1) or (2) of Section IV.A. This collateral shall be regularly priced to current market to assure the Authority's security interest is continuously protected. Aggregate holdings of Authorized Certificates of Deposit shall not exceed 25% of the Authority's total investment. Authorized Certificates of Deposit purchased from any one bank shall not exceed $25 million.

Establishes a policy intended to minimize the risk associated with arrangements for the purchase and resale of Authorized Investments known as Repurchase Agreements ("Repos"). Repos purchased from any one qualified dealer or bank shall not exceed $50 million and shall be limited to a maximum fixed term of five business days. Aggregate investments in Repos shall not exceed the greater of 5% of the Authority's total investments or $100 million. All securities purchased under the terms of a Repo shall be held in safekeeping by a designated custodian for the Authority. Such securities shall be priced to market on a daily basis to assure the Authority's security interest. Reverse Repurchase Agreements are not authorized transactions.

Section VIII Review

Establishes policy requiring review of the Guidelines at least once a year. Requires an annual audit by the Authority's independent auditors of the Authority's investment portfolio and compliance with the guidelines established by the Authority and the State Comptroller.

Section IX Reports

Establishes policy requiring submission of reports to the Authority's Trustees concerning the management and performance of the Authority's portfolio.

This Section also requires that an annual report be submitted for approval by the Authority's Trustees. Copies of the approved report shall be sent to the State Division of the Budget, Office of the State Comptroller, Senate Finance Committee and Assembly Way and Means Committee.

Section III

A. Investment Income Record

During 2018, the Authority's investment portfolio market value averaged approximately $1.04 billion and earned approximately $15.9 million.

The earnings, by fund, were as follows (dollars in millions):

Operating Fund	$15.7
Capital (Construction Funds)	0.2
Total	**$ 15.9**

The 2018 investment income was higher than investment income earned in 2018. Maturing securities rolled off the portfolio and the proceeds from matured securities and investment of new cash flows were invested in higher yielding securities throughout the year.

B. Fees Paid for Other Post-Employment Benefits Trust Fund Investment/Advisory Services

$ 211,825	CenterSquare Investment Management
$ 315,251	Lazard Asset Management
$ 261,464	Mackay & Shields
$ 102,563	New Amsterdam
$ 270,000	NEPC (Advisory Services)
$ 106,637	State Street Global Advisors
$ 342,104	Wellington International
$ 103,545	Wells Capital Management Inc.
$1,713,389	**Total**

Fees were paid from the OPEB Trust Fund.

C. Results of the Annual Independent Audit

In connection with its examination of the Authority's financial statements, KPMG LLP ("KPMG") performed tests of the Authority's compliance with certain provisions of the Investment Guidelines, the State Comptroller's Investment Guidelines and Section 2925 of the Public Authorities Law. Based on discussions with KPMG, Staff is of the opinion that KPMG's written report, which will be delivered upon approval of the financial statements by the Board, will state that the Authority complied, in all material respects, with the requirements during the year ended December 31, 2018. Consequently, staff believes the Authority is in compliance with the Investment Guidelines, the State Comptroller's Investment Guidelines and Section 2925 of the Public Authorities Law.

KPMG LLP
345 Park Avenue
New York, NY 10154-0102

Independent Accountants' Report on Compliance with the Requirements of Section 201.3 of Title Two of the *Official Compilation of Codes, Rules, and Regulations of the State of New York*

The Board of Trustees
Power Authority of the State of New York:

We have examined the Power Authority of the State of New York's (the Authority) compliance with Section 201.3 of Title Two of the *Official Compilation of Codes, Rules, and Regulations of the State of New York* during the year ended December 31, 2018. Management is responsible for the Authority's compliance with those requirements. Our responsibility is to express an opinion on the Authority's compliance based on our examination.

Our examination was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants and, accordingly, included examining, on a test basis, evidence about the Authority's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances. We believe that our examination provides a reasonable basis for our opinion. Our examination does not provide a legal determination on the Authority's compliance with specified requirements.

In our opinion, the Authority complied, in all material respects, with the aforementioned requirements during the year ended December 31, 2018.

In accordance with *Government Auditing Standards*, we are required to report findings of deficiencies in internal control, violations of provisions of laws, regulations, contracts or grant proceeds, and instances of fraud and abuse that are material to the Authority's compliance with the requirements of Section 201.3 of Title Two of the *Official Compilation of Codes, Rules, and Regulations of the State of New York* that come to our attention during our examination. We are also required to obtain the views of management on those matters. We performed our examination to express an opinion on whether the Authority complied with the aforementioned requirements and not for purpose of expressing an opinion on the internal control over compliance with those requirements or the other matters referred to above; accordingly, we express no such opinions. The results of our tests disclosed no matters that are required to be reported under *Government Auditing Standards*.

This report is intended solely for the information and use of Authority's Management, the Board of Trustees, the New York State Office of the State Comptroller, the New York State Division of the Budget, and the New York State Authority Budget Office and is not intended to be and should not be used by anyone other than those specified parties.

KPMG LLP

New York, New York
March 26, 2019

KPMG LLP is a Delaware limited liability partnership and the U.S. member firm of the KPMG network of independent member firms affiliated with KPMG International Cooperative ("KPMG International"), a Swiss entity.

NEW YORK POWER AUTHORITY
INVENTORY REPORT BY PORTFOLIO AND SECURITY TYPE
HOLDINGS AS OF 12/31/18

PORTFOLIO / SECURITY	SECURITY DESCRIPTION	PAR AMOUNT	MATURITY DATE	COUPON RATE	YIELD TO MATURITY	PRINCIPAL COST	TOTAL COST
PORTFOLIO: NIAGARA TAXABLE							
FREDDIE MAC							
313396AJ2	FMCDN	2,725,000.00	1/9/2019		1.786	2,681,009.42	2,681,009.42
Subtotal:	FREDDIE MAC	2,725,000.00			1.786	2,681,009.42	2,681,009.42
Subtotal: PORTFOLIO: NIAGARA TAXABLE		**2,725,000.00**			**1.786**	**2,681,009.42**	**2,681,009.42**
PORTFOLIO: OPERATING NORTHERN NY ECONOMIC DEVELOPMENT							
FEDERAL HOME LOAN							
313384ER6	FHLB DISCOUNT NOTE	2,250,000.00	4/22/2019		2.304	2,203,448.75	2,203,448.75
Subtotal:	FEDERAL HOME LOAN	2,250,000.00			2.304	2,203,448.75	2,203,448.75
TREASURY							
912833KU3	STRIP	1,200,000.00	2/15/2019		1.980	1,175,520.00	1,175,520.00
Subtotal:	TREASURY	1,200,000.00			1.980	1,175,520.00	1,175,520.00
Subtotal: PORTFOLIO: OPERATING NORTHERN NY ECONOMIC DEVELOPMENT		**3,450,000.00**			**2.191**	**3,378,968.75**	**3,378,968.75**
PORTFOLIO: OPERATING SPENT FUEL							
FREDDIE MAC							
3137FJXP9	FMCDN	3,486,886.30	2/25/2025		3.518	3,537,379.90	3,537,379.90
Subtotal:	FREDDIE MAC	3,486,886.30			3.518	3,537,379.90	3,537,379.90
HOME LOAN							
3130AF3M7		25,000,000.00	4/15/2021	2.92	2.945	24,998,944.44	24,998,944.44
Subtotal:	HOME LOAN	25,000,000.00			2.945	24,998,944.44	24,998,944.44
MORTGAGE							
31393C4K6	FHR 2003-66 KA	12,483.55	1/25/2033	3.50	3.501	12,545.97	12,545.97
Subtotal:	MORTGAGE	12,483.55			3.501	12,545.97	12,545.97
MUNICIPAL							
64990ALC7	NYS DORM PIT	5,990,000.00	10/12/2018	3.06	3.070	5,988,742.10	5,988,742.10
64990ALD5	NYS DORM PIT	7,375,000.00	10/12/2018	3.18	3.208	7,368,583.75	7,368,583.75
20772J3G5	CT ST GEN OBLIG	11,430,000.00	8/15/2022	2.02	1.828	11,551,843.80	11,551,843.80
Subtotal:	MUNICIPAL	24,795,000.00				24,909,169.65	24,909,169.65
PROJECT LOAN							
36225BM21	GNMA POOL #781277	149,636.14	12/15/2028	7.00	6.757	154,078.46	154,078.46
Subtotal:	PROJECT LOAN	149,636.14			6.757	154,078.46	154,078.46
Subtotal: PORTFOLIO: OPERATING SPENT FUEL		**53,444,005.99**			**2.804**	**53,612,118.42**	**53,612,118.42**

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PORTFOLIO / SECURITY	SECURITY DESCRIPTION	PAR AMOUNT	MATURITY DATE	COUPON RATE	YIELD TO MATURITY	PRINCIPAL COST	TOTAL COST
PORTFOLIO: OPERATING WNY ECONOMIC DEVELOPMENT							
FEDERAL HOME LOAN							
313384ER6	FHLB DISCOUNT NOTE	1,500,000.00	4/22/2019		2.304	1,468,965.83	1,468,965.83
Subtotal:	FEDERAL HOME LOAN	1,500,000.00			2.304	1,468,965.83	1,468,965.83
FREDDIE MAC							
313396HK2	FMCDN	2,425,000.00	6/27/2019		2.447	2,382,194.71	2,382,194.71
313396BG7	FMCDN	1,800,000.00	1/31/2019		1.787	1,768,941.00	1,768,941.00
Subtotal:	FREDDIE MAC	4,225,000.00				4,151,135.71	4,151,135.71
TREASURY							
912828F39B	TREASURY NOTE	5,000,000.00	9/30/2019		1.750	4,956,971.15	4,956,971.15
Subtotal:	TREASURY	5,000,000.00			1.750	4,956,971.15	4,956,971.15
Subtotal: PORTFOLIO: OPERATING WNY ECONOMIC DEVELOPMENT		**10,725,000.00**				**10,577,072.69**	**10,577,072.69**
PORTFOLIO: OPERATING LINKED DEPOSIT PROGRAM							
CERTIFICATES OF DEPOSIT							4,956,971.15
	M & T TRUST CO.	18,000.00	1/4/2019		0.00	18,000.00	18,000.00
	Community Bank N.A	172,755.00	1/8/2019		0.00	172,755.00	172,755.00
	M & T TRUST CO.	240,000.00	1/30/2019		0.00	240,000.00	240,000.00
	NBT Bank NA	258,726.00	2/22/2019		0.00	258,726.00	258,726.00
	Manufacturers and Traders Trust Co.	68,300.00	4/5/2019		0.00	68,300.00	68,300.00
	NBT BANK, N.A.	245,884.36	5/3/2019		0.00	245,884.36	245,884.36
	M & T TRUST CO.	392,250.00	5/24/2019		0.00	392,250.00	392,250.00
	GLEN FALLS NATIONAL BANK & TRUST CO	300,000.00	6/14/2019		0.00	300,000.00	300,000.00
	GLEN FALLS NATIONAL BANK & TRUST CO	187,076.00	8/6/2019		0.00	187,076.00	187,076.00
	M & T BANK	123,000.00	8/15/2019		0.00	123,000.00	123,000.00
	Tioga State Bank	301,346.00	8/16/2019		0.00	301,346.00	301,346.00
	M & T TRUST CO	200,000.00	8/29/2019		0.00	200,000.00	200,000.00
	NBT Bank	600,000.00	9/11/2019		0.00	600,000.00	600,000.00
	M & T TRUST CO.	139,000.00	10/25/2019		0.00	139,000.00	139,000.00
	Glens Falls National Bank & Trust Co	66,176.00	12/20/2019		0.00	66,176.00	66,176.00
	Manufacturers and Traders Co	167,000.00	12/20/2019		0.00	167,000.00	167,000.00
	NBT Bank	63,832.00	12/20/2019		0.00	63,832.00	63,832.00
Subtotal:	CERTIFICATES OF DEPOSIT	3,543,345.36			0.00	3,543,345.36	3,543,345.36
Subtotal: PORTFOLIO: OPERATING LINKED DEPOSIT PROGRAM		**3,543,345.36**			**0.00**	**3,543,345.36**	**3,543,345.36**

NEW YORK POWER AUTHORITY
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PORTFOLIO / SECURITY	SECURITY DESCRIPTION	PAR AMOUNT	MATURITY DATE	COUPON RATE	YIELD TO MATURITY	PRINCIPAL COST	TOTAL COST
PORTFOLIO: OPERATING FUND							
FANNIE MAE							
3135G0ZG1	FNMA	20,000,000.00	9/12/2019	1.75	1.609	20,114,276.00	20,114,276.00
3135G0ZY2	FNMA	10,000,000.00	11/26/2019	1.75	1.836	9,958,700.00	9,958,700.00
3135G0A78	FNMA	20,000,000.00	1/21/2020	1.63	1.737	19,901,400.00	19,901,400.00
3135G0D75	FNMA	10,000,000.00	6/22/2020	1.50	1.455	10,020,300.00	10,020,300.00
3135G0F73	FNMA	23,501,000.00	11/30/2020	1.50	1.133	23,850,929.89	23,850,929.89
3135G0K69	FNMA	12,500,000.00	5/6/2021	1.25	1.213	12,520,500.00	12,520,500.00
3135G0Q89	FNMA	30,000,000.00	10/7/2021	1.38	1.621	29,653,800.00	29,653,800.00
3135G0S38	FNMA	15,000,000.00	1/5/2022	2.00	2.154	14,894,550.00	14,894,550.00
3135G0T78	FNMA	30,000,000.00	10/5/2022		2.014	29,980,200.00	29,980,200.00
Subtotal:	FANNIE MAE	171,001,000.00			1.655	170,894,655.89	170,894,655.89
FEDERAL FARM CREDIT							
3133EEM49	FFCB	15,000,000.00	12/20/2019	1.60	1.582	15,011,880.00	15,011,880.00
3133EEW55	FFCB	20,000,000.00	6/15/2020	1.80	1.905	19,900,297.40	19,900,297.40
3133EFJF5	FFCB	25,000,000.00	10/9/2020	1.38	1.457	24,901,500.00	24,901,500.00
3133EHZA4	FFCB	10,000,000.00	9/20/2021	1.66	1.726	9,974,600.00	9,974,600.00
3133EHCT8	FFCB	20,000,000.00	3/15/2022	2.15	1.927	20,206,200.00	20,206,200.00
3133EHZP1	FFCB	30,000,000.00	9/20/2022	1.85	1.959	29,844,697.80	29,844,697.80
3133EJNB1	FFCB	40,000,000.00	11/2/2023	2.98	2.939	40,082,950.00	40,082,950.00
Subtotal:	FEDERAL FARM CREDIT	160,000,000.00			2.065	159,922,125.20	159,922,125.20
FEDERAL HOME LOAN							
313384AL3	FHDN	50,000,000.00	1/11/2019		2.283	49,956,250.00	49,956,250.00
313384AS8	FHDN	50,000,000.00	1/17/2019		2.294	49,937,222.20	49,937,222.20
3133782M2	FHLB	9,000,000.00	3/8/2019	1.50	0.986	9,114,820.20	9,114,820.20
3130AA3R7	FHLB	20,000,000.00	11/15/2019	1.38	1.532	19,922,600.00	19,922,600.00
313378J77	FHLB	20,000,000.00	3/13/2020	1.88	1.590	20,246,200.00	20,246,200.00
3130A5Z77	FHLB	5,000,000.00	7/29/2020	1.83	1.478	5,081,700.00	5,081,700.00
3130A66T9	FHLB	30,000,000.00	9/11/2020	1.63	1.660	29,948,027.30	29,948,027.30
3130ACHJ6	FHLB	15,000,000.00	3/24/2021	1.80	1.800	15,000,000.00	15,000,000.00
3130AABG2	FHLB	24,665,000.00	11/29/2021	1.88	1.918	24,618,901.12	24,618,901.12
3130AAZ50	FHLB	30,000,000.00	4/29/2022	2.13	2.066	30,085,219.00	30,085,219.00
313379Q69	FHLB	20,000,000.00	6/10/2022	2.13	1.904	20,211,400.00	20,211,400.00
3130ABCY0	FHLB	20,000,000.00	7/5/2022	1.96	1.955	20,000,000.00	20,000,000.00
3130ADRG9	FHLB	30,000,000.00	3/10/2023	2.75	2.875	29,830,500.00	29,830,500.00
Subtotal:	FEDERAL HOME LOAN	323,665,000.00			2.030	323,952,839.82	323,952,839.82

NEW YORK POWER AUTHORITY
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PORTFOLIO / SECURITY	SECURITY DESCRIPTION	PAR AMOUNT	MATURITY DATE	COUPON RATE	YIELD TO MATURITY	PRINCIPAL COST	TOTAL COST
PORTFOLIO: OPERATING FUND (Cont.)							
FREDDIE MAC							
3137EADG1	FHLMC	30,000,000.00	5/30/2019	1.75	1.630	30,169,260.00	30,169,260.00
3137EADK2	FHLMC	10,000,000.00	8/1/2019	1.25	1.384	9,949,400.00	9,949,400.00
3137EADM8	FHLMC	35,000,000.00	10/2/2019	1.25	1.729	34,225,380.00	34,225,380.00
3137EADR7	FHLMC	15,000,000.00	5/1/2020	1.38	1.818	14,663,550.00	14,663,550.00
3134GRB46	FHLMC	25,000,000.00	4/16/2021	1.85	1.852	25,000,000.00	25,000,000.00
3137EAEC9	FHLMC	20,000,000.00	8/12/2021	1.13	1.313	19,823,893.40	19,823,893.40
Subtotal:	FREDDIE MAC	135,000,000.00			1.655	133,831,483.40	133,831,483.40
MORTGAGE							
30306RAC2	FRESB 2018-SB50 A5F	8,009,540.90	4/25/2023	3.06	3.152	7,983,622.03	7,983,622.03
30306RAJ7	FRESB 2018-SB50 A7F	9,469,640.39	4/25/2025	3.13	3.374	9,342,501.00	9,342,501.00
30306RAF5	FRESB 2018-SB50 A5F	9,200,871.56	4/25/2028	3.00	3.084	9,112,395.98	9,112,395.98
Subtotal:	MORTGAGE	26,680,052.85				26,438,519.01	26,438,519.01
MUNICIPAL							
64966KPZ0	NYC G O	6,935,000.00	3/1/2019	1.45	2.512	6,562,729.20	6,562,729.20
6775212J4	OHIO G O	5,000,000.00	11/1/2019	2.55	2.550	4,999,900.00	4,999,900.00
64971WN97	NYC TRANSITIONAL FIN AUTH	5,000,000.00	8/1/2020	1.35	1.674	4,954,050.00	4,954,050.00
13063DAC2	CALI ST GEN OBLIG	7,000,000.00	4/1/2021	2.63	2.218	7,106,750.00	7,106,750.00
13066YTY5	CAL ST DPT WTR RES PWR	14,471,061.30	5/1/2021	1.71	1.712	14,471,061.30	14,471,061.30
64971W5X4	NYC TRANSITIONAL FIN AUTH	10,000,000.00	5/1/2021	2.06	2.022	10,014,500.00	10,014,500.00
13063DAD0	CALI ST GEN OBLIG	2,200,000.00	4/1/2022	2.37	2.367	2,200,000.00	2,200,000.00
64966LN64	NEW YORK, NY	2,000,000.00	6/1/2022	2.74	1.986	2,067,620.00	2,067,620.00
73474TAM2	PORT OF MORROW OR TRANSMISSION FACS RE	11,250,000.00	9/1/2022	1.81	2.108	11,091,425.00	11,091,425.00
60412AKS1	MINNESOTA BOND	13,500,000.00	10/1/2022	2.02	2.041	13,486,500.00	13,486,500.00
Subtotal:	MUNICIPAL	77,356,061.30			2.062	76,954,535.50	76,954,535.50
Subtotal: PORTFOLIO: OPERATING FUND		**893,702,114.15**			**1.945**	**891,994,158.82**	**891,994,158.82**

NEW YORK POWER AUTHORITY
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PORTFOLIO / SECURITY	SECURITY DESCRIPTION	PAR AMOUNT	MATURITY DATE	COUPON RATE	YIELD TO MATURITY	PRINCIPAL COST	TOTAL COST
PORTFOLIO: ST. LAWRENCE SPEC							
FEDERAL HOME LOAN							
313384BT5	FED'L HOME LOAN DISCOUNT	1,100,000.00	2/11/2019		2.082	1,084,431.03	1,084,431.03
Subtotal:	FEDERAL HOME LOAN	1,100,000.00			2.082	1,084,431.03	1,084,431.03
Subtotal: PORTFOLIO: ST. LAWRENCE SPEC		**1,100,000.00**			**2.082**	**1,084,431.03**	**1,084,431.03**
PORTFOLIO: ST. LAWRENCE CONSTRUCTION							
FEDERAL FARM CREDIT							
313312NF3	FFCBDN	2,000,000.00	10/21/2019		2.750	1,948,721.11	1,948,721.11
313312NG1	FFCBDN	500,000.00	10/22/2019		2.750	487,143.33	487,143.33
Subtotal:	FEDERAL FARM CREDIT	2,500,000.00			2.750	2,435,864.44	2,435,864.44
FREDDIE MAC							
3137EADM8	FMCDN	2,900,000.00	10/2/2019	1.25	2.749	2,865,445.69	2,865,445.69
Subtotal:	FREDDIE MAC	2,900,000.00			2.749	2,865,445.69	2,865,445.69
MUNICIPAL							
64972HV82	NYC TRANSSTNL FIN-S3	3,200,000.00	10/15/2018	1.75	0.085	3,193,504.00	3,193,504.00
Subtotal:	MUNICIPAL	3,200,000.00			1.291	3,193,504.00	3,193,504.00
TREASURY							
912796QC6	Treasury Bill	10,000,000.00	4/25/2019		2.227	9,802,830.09	9,802,830.09
Subtotal:	TREASURY	10,000,000.00			2.227	9,802,830.09	9,802,830.09
Subtotal: PORTFOLIO: ST. LAWRENCE CONSTRUCTION		**18,600,000.00**			**2.010**	**18,297,644.22**	**18,297,644.22**
GRAND TOTAL		**987,289,465.50**			**1.992**	**985,168,748.71**	**985,168,748.71**

POWER AUTHORITY OF THE STATE OF NEW YORK
Summary of Bids/Offers Solicited for the Purchase and Sale of Securities
For the Year Ended December 31, 2018

Brokers	Bids/Offers Accepted	Bids/Offers Solicited	Total Cost Purchases/Sales	CDs and Repurchase Agreements	Total Transactions
Academy Securities	5	8	110,812,703		$ 110,812,703
Bank of America Securities	1	3	49,970,889		$ 49,970,889
Cantor Fitzgerald	18	36	104,952,125	530,564,652	$ 635,516,777
CastleOak Securities L.P.	15	16	265,017,709		$ 265,017,709
Citigroup Global Markets	3	6	149,902,979		$ 149,902,979
Drexel Hamilton	6	7	110,851,113		$ 110,851,113
Great Pacific Securities	8	8	294,797,236		$ 294,797,236
JP Morgan Securities	1	3	4,956,971		$ 4,956,971
Key Bank	18	18		3,826,945	$ 3,826,945
Loop Capital Markets LLC	5	9	132,576,617		$ 132,576,617
MFR	3	4	27,883,129		$ 27,883,129
Mischler Securities	7	7	141,095,103		$ 141,095,103
Mizuho Securities USA Inc.	28	37	132,434,652	943,886,631	$ 1,076,321,282
RBC Capital Markets	7	10	121,219,736		$ 121,219,736
Siebert Cisneros Shank	6	6	155,693,642		$ 155,693,642
Grand Total	**131**	**178**	**$ 1,802,164,603**	**$ 1,478,278,228**	**$ 3,280,442,831**

Company Policy Title:

NYPA Guidelines for the Disposal of Personal Property

Policy Number:

CP 3-2

Revision Date(For BCG Use Only)	Revision #	Description/Modification	Revision Section (s)	Author
	0	Converting approved 2018 NYPA Guidelines for the Disposal of Personal Property ("Guidelines") to e-Scribe format. Per PAL §§§ 2895, 2896 and 2897, the Guidelines were adopted by resolution and are reviewed annually and approved (by the Trustees).	N/A	Kevin King, Director, Transactional Procurement

Note: Revision # should be listed in descending order starting with most recent version at the top

Printed copies are not controlled.
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Records will be retained in accordance with NYPA's approved records retention schedules and/or in compliance with all applicable legal requirements pertaining to NYPA.

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I. PURPOSE

These Guidelines for the Disposal of New York Power Authority Personal Property (hereinafter "Guidelines"), which comply with Title 5-A, Article 9 of the Public Authorities Law, establish the Authority's policy and instructions regarding the use, award, monitoring and reporting of the disposal of personal property. In addition, the Guidelines designate a Contracting Officer who is responsible for the Authority's compliance with, and enforcement of, the Guidelines.

II. DEFINITIONS

A. "Contracting Officer" shall mean the officer or employee of the Authority who shall be appointed by resolution of the Authority's Board of Trustees to be responsible for the disposition of personal property. The "Contracting Officer" is hereby designated to be the Vice President – Procurement, or equivalent(s). The Authority's Contracting Officer shall not be responsible for compliance for dispositions of the Authority's personal property conducted by another state entity authorized to dispose of the Authority's personal property under the Public Authorities Accountability Act ("PAAA") or as otherwise authorized by law.

B. "Dispose" or "disposal" shall mean transfer of title or any other beneficial interest in personal property in accordance with these Guidelines.

C. "Property" shall mean personal property owned by the Authority regardless of value, and any other interest in such Property, to the extent that such interest may be conveyed to another person for any purpose, excluding an interest securing a loan or other financial obligation of another party. For the purposes of these Guidelines, Property may include, but is not limited to, materials, tools, equipment, or vehicles.

D. "Fair Market Value" shall mean the estimated dollar amount that a willing buyer would pay to a willing seller for the Property in an arms-length transaction in the appropriate marketplace and under similar circumstances. Fair Market Value may be determined by consulting industry-recognized sources, contacting original suppliers, depreciation analysis, appraisals, fair market valuations by public auction or other methods of valuation generally accepted in the industry in which such Property is utilized, as may be approved by the Contracting Officer or authorized designee.

E. ""Relative" is any person living in the same household as the Authority employee or any person who is a direct descendant of the Authority employee's grandparents or the spouse of such descendant. The term Relative may include, but is not limited to, the relationship of spouse, child, parent, sister, brother, grandparent, grandchild, aunt, uncle, cousin, niece, nephew, stepchild, stepparent, stepsister, stepbrother, mother-in-law, father-in-law, sister-in-law, brother-in-law, daughter-in-law or son-in-law.

III. OBJECTIVE

The objective of these Guidelines is to identify those Authority personnel responsible for authorizing the disposal of Property owned by the Authority and to ensure that the Authority receives fair and reasonable value for such Property. The transfer or sale of Property shall be accounted for in accordance with the Authority's Corporate Accounting Policy No. CAP 4.3 "Accounting for Materials and Supplies Inventory," and the Authority's procedures for the disposal of Property implementing these Guidelines.

IV. TRANSACTIONS NOT COVERED

These Guidelines do not apply to any of the following transactions:

1. Disposal of real property interests;
2. Exchange of Property with other utilities or power plant owners, where such owners will provide an identical or in-kind replacement;
3. Transfer/re-deployment of Property from one Authority facility to another Authority facility or to Canal Corporation;
4. Disposal of natural gas that is subject to the Authority's Energy Resource Management Fuels Procedures.

V. DESIGNATION OF PROPERTY DISPOSAL COORDINATORS

A. The Contracting Officer shall be responsible for the Authority's compliance with, and enforcement of, the Guidelines, including through development and implementation of internal controls (such as written procedures and supporting tools).

B. The individual responsible for disposal of Property greater than $5,000 at the Authority's facilities will be the Director – Site Purchasing & Warehouse ("DSP&W") or equivalent. For purposes of Property disposal, the DSP&W reports directly to the Contracting Officer or authorized designee.

C. The Manager - Purchasing/Warehouse at each facility acts as the local Property Disposal Coordinator, who is responsible for Property disposal less than or equal to $5,000 and assists the DSP&W with all other disposals at his or her facility or location ("Facility PDC"). The Facility PDC reports to the DSP&W.

D. The Contracting Officer or authorized designee will designate one or more individuals from the White Plains Office Procurement Division, (rebranded Strategic Supply Management, hereinafter "SSM"), to be the Property Disposal Coordinator(s) for the White Plains and other corporate offices ("WPO PDC"). For purposes of Property disposal, the WPO PDC(s) will confer, interface with and report to the Contracting Officer or authorized designee.

E. The Director of Fleet Operations ("DFO") or equivalent(s) or authorized designee is responsible for the disposal of vehicles and rolling equipment. The DFO reports directly to the Vice President – Enterprise Shared Services or equivalent, or authorized designee.

F. If appropriate, the responsible Facility PDC should confer (by oral or written communication) with the DSP&W and the WPO PDC(s) should confer (by oral or written communication) with the Contracting Officer or authorized designee to determine if a "centralized" sale of Property, as outlined in Article VII, is appropriate. If agreed, the responsible Facility or WPO PDC (collectively hereinafter referred to as "PDC") should arrange for shipment of the Property to be sold from the site to the sale location. If a centralized sale is not appropriate, the responsible PDC should proceed in accordance with the "decentralized" procedures, as outlined in Article VIII.

VI. DISPOSAL OF AUTHORITY PERSONAL PROPERTY

Except for Disposals pursuant to Article VII, Article XII and Subsection VI.A.4 of these Guidelines, whenever practicable, the responsible PDC shall solicit proposals from qualified bidders, to purchase the Property to be disposed of, and will maintain records of such solicitations. The PDC should use "Attachment A" attached hereto or an appropriate substitute for solicitations under this Article VI.

A. DISPOSAL METHODS FOR PERSONAL PROPERTY

1. For the purposes of these Guidelines, disposal methods may include, but are not limited to: sale (directly to the Buyer, through a third party, negotiation, advertised public auction that permits full and free competition consistent with the value and nature of the property or on any other centralized basis that achieves the same level of competition); return to the original equipment manufacturer or to the source; trade-ins or disposals as part of a competitive procurement; or disposal through the New York State Office of General Services ("OGS"). Provided, however, that no disposition of any Property, which because of its unique nature or the unique circumstances of the proposed transaction is not readily valued by reference to an active market for similar Property, shall be made unless an appraisal of the value of such Property has been made by an independent appraiser and included in the record of the transaction. The Authority's Environment, Health and Safety Division should be consulted, on a case-by-case basis, regarding disposal of items that may be considered hazardous waste.

2. Solicitation via telephone, e-mail and/or direct mailings may be used where the estimated Fair Market Value of the Property to be disposed of does not exceed $15,000. All bids must be submitted in writing on the forms or an appropriate substitute and in the manner

prescribed by this procedure and by the date and time (the "Bid Due Date") included in the solicitation.

3. All Disposals of Authority Property in excess of $15,000 shall be made after publicly advertising for bids except as provided in Subsection 4 below, using the following process:

    a) the appropriate advertisement for bids (Attachment "B" or an appropriate substitute) shall be made at such time prior to the Disposal, through such methods, and on such terms and conditions as shall permit full and free competition consistent with the value and nature of the Property. This may include advertisements in one or more of the following publications, depending on the nature of the Property: local newspapers in the geographic area of the facility where the sale is taking place, trade journals, regional or nationwide publications (if the market for such sale is regional or nationwide), the New York State Contract Reporter, internet services or other communication outlets as appropriate;

    b) all bids must be submitted in writing on the forms or an appropriate substitute and in the manner prescribed by these guidelines and by the Bid Due Date included in the solicitation;

    c) where the value of the Property exceeds $5,000, all bid amounts shall be posted to the Authority's internet website or publically disclosed at the time and place of the sale; and

    d) the award shall be made with reasonable promptness by notice to the responsible bidder whose bid, conforms to the bid solicitation and is most advantageous to the Authority, price and other factors considered; however, any bid may be rejected when in the public interest to do so at the Authority's sole discretion.

4. Disposals of Property may be negotiated or made by public auction without regard to Subsection 3 of this Section, but subject to obtaining such competition as is feasible under the circumstances, if:

    a) the Property involved has qualities separate from the utilitarian purpose of such Property, such as artistic quality, antiquity, historical significance, rarity or other quality of similar effect that would tend to increase its value, or if the Property is to be disposed of in such quantity that, if it were Disposed of under Subsection 3 of this Section, would adversely affect the state or local market for such Property, and the estimated Fair Market Value of such Property and other satisfactory terms of disposal may be obtained by negotiation;

b) bid prices after advertising therefore are not reasonable, either as to all or part of the Property, or have not been independently arrived at in open competition;

c) the Disposal will be to the state or any political subdivision, and the estimated Fair Market Value of the Property and other satisfactory terms of Disposal are obtained by negotiation;

d) under those circumstances permitted by Subsection 6 of this Section;

e) if the estimated or actual fair market value of the property does not exceed $15,000; or

f) such action is otherwise authorized by law.

5. An explanatory statement shall be prepared of the circumstances of each Disposal by negotiation of any Property which has an estimated Fair Market Value in excess of fifteen thousand dollars ($15,000). In addition, an explanatory statement shall be prepared of the circumstances of each Disposal by negotiation of any Property disposed of by exchange, regardless of value. Each such statement shall be transmitted to the Commissioner of General Services, the State Legislature, the State Comptroller, the Director of the Division of the Budget and the Authorities Budget Office, not less than ninety days in advance of such Disposal, and a copy thereof shall be preserved in the Authority's files.

6. No Property owned or otherwise in the control of the Authority may be disposed or otherwise alienated for less than its Fair Market Value except if:

a) the transferee is a government or other public entity, and the terms and conditions of the transfer require that the ownership and use of the Property will remain with the government or any other public entity;

b) the purpose of the transfer is within the purpose, mission or governing statute of the Authority; or

c) in the event the Authority seeks to transfer Property for less than its Fair Market Value to other than a governmental entity, which Disposal would not be consistent with the Authority's mission, purpose or governing statutes, the Authority shall provide written notification thereof to the Governor, the Speaker of the Assembly, and the Temporary President of the Senate, and such proposed transfer shall be subject to denial by the Governor, the Senate or the Assembly. Denial by the Governor shall take the form of a signed certification by the Governor. Denial by either House of the Legislature shall take the form of a resolution by such House. The Governor and each House of the Legislature shall take any such action within sixty days of receiving notification of such proposed transfer during the months of January through June, provided that if the Legislature receives notification of a proposed transfer during the months of

July through December, the Legislature may take any such action within sixty days of January first of the following year. If no such resolution or certification is performed within sixty days of such notification of the proposed transfer to the Governor, Senate and Assembly, the Authority may effectuate such transfer provided, however, that with respect to a below-market transfer by the Authority that is not within the purpose, mission or governing statute of the Authority, if the governing statute provides for the approval of such transfer by the executive and legislative branches of the political subdivision in which the Authority resides, and if the transfer is of Property obtained by the Authority from that political subdivision, then such approval shall be sufficient to permit the transfer.

d) In the event a below Fair Market Value Property transfer is proposed, the following information must be provided to the Authority's Board of Trustees and the public:

    (1) a full description of the Property;

    (2) an appraisal of the Fair Market Value of the Property and any other information establishing the Fair Market Value sought by the Board of Trustees;

    (3) a description of the purpose of the transfer and a reasonable statement of the kind and amount of the benefit to the public resulting from the transfer, including but not limited to the kind, number, location, wages or salaries of jobs created or preserved as required by the transfer, the benefits, if any, to the communities in which the Property is situated as are required by the transfer;

    (4) a statement of the value to be received compared to the Fair Market Value;

    (5) the names of any private parties participating in the transfer and, if different than the statement required by subparagraph (iv) of this Subsection, a statement of the value to the private party; and

    (6) the names of other private parties who have made an offer for such Property, the value offered and the purpose for which the Property was sought to be used.

e) Before approving the Disposal of any Property for less than Fair Market Value, the Board of Trustees shall consider the information described in paragraph b of this Subsection and make a written determination that there is no reasonable

alternative to the proposed below-market transfer that would achieve the same purpose of such transfer.

7. In cases where a Disposal of Property is made without competitive bidding and where the proposed contract price for the Property disposed of is less than Fair Market Value, a detailed explanation of the justification for making the Disposal without competitive bidding shall be prepared, and a certification shall be signed by the Chief Executive Officer and Chief Financial Officer of the Authority stating that they have reviewed the terms of such Disposal and have determined that it complies with applicable law and these Guidelines.

B. DISPOSAL OPTIONS IF NO BIDS OR NO ACCEPTABLE BIDS ARE RECEIVED

The appropriate PDC shall confer with the DSP&W and the Contracting Officer or authorized designee to decide (i) if re-soliciting is feasible; (ii) if shipment to a third-party contractor for Disposal would result in higher-priced proposals; (iii) if disposal by other methods would be appropriate; and/or (iv) if the Fair Market Value estimate requires review or adjustment, where:

1. the solicitation pursuant to Section VI.A does not produce any bids to purchase the Property;

2. in the opinion of the Authority, the bids are not arrived at independently;

3. all bids are not reasonable in accordance with Section X.C; or

4. all bids received are less than the Authority's Fair Market Value estimate.

VII. CENTRALIZED DISPOSAL

A. Subject to the approval of the Contracting Officer or authorized designee and in accordance with Article VI of these Guidelines, in either the initial document authorizing the disposal or through a subsequent communication, Property may be disposed of using any of the following methods:

1. Shipment of the material to a third-party vendor(s), selected by competitive bidding, which, pursuant to these Guidelines, will market the material for sale or dispose of such material in accordance with environmental and any other Authority requirements.

2. Consolidation of such Property at one of the Authority's facilities or an offsite warehouse for the purpose of conducting a sale managed by Authority staff, possibly with the assistance of an outside contractor.

3. Participation in public auctions provided the advertisement for bids through such methods permits full and free competition consistent with the value and nature of

the property, as may be conducted through an independent auctioneer, online auction service, or another utility.

VIII. DECENTRALIZED DISPOSAL

A. The Regional Manager, Project Manager, or head of a Department or Division requiring disposal of Property which he or she believes to be disposable, will submit to the responsible PDC a written description of the material, with the original price (if known), and estimate of the Property's Fair Market Value (if available). If practical, a photograph of the material or equipment in question should be provided. Such submission shall be made to the responsible PDC for the location where the Property is located.

B. If the responsible PDC, in conference with either the DSP&W or the Contracting Officer or authorized designee, as appropriate, determines that other Authority facilities may have an interest in the Property, a notice should be sent to the other Authority facilities advising of its availability and requesting a response within a specified time frame. A record of the notice will be maintained by the responsible PDC. In the event that the responsible PDC and either the DSP&W or the Contracting Officer or authorized designee, as appropriate, determine there is no interest in such material at other Authority facilities, a written explanation should be prepared by the PDC to that effect and maintained in the file for that transaction.

C. If no response to the notice is received, the responsible PDC will solicit bids for the purchase of such Property in accordance with these Guidelines.

IX. PARTIES PROHIBITED FROM BIDDING

A. All current and former employees of the Authority and relatives of such employees or third parties acting on behalf of such employees shall not be eligible to bid for the purchase of Authority Property and are prohibited from subsequently acquiring it in any manner. Each bidder will be required, as part of his or her bid, to certify, by signing Attachment "A," that he or she is not a current or former employee of the Authority, is not related to any current or former employee of the Authority and is not acting on behalf of a current or former employee of the Authority or a relative of any such employee. No bid will be accepted unless accompanied by such certification.

B. The term "related to" as used in paragraph A above means the relationship of spouse, child, parent, sister, brother, grandparent, grandchild, aunt, uncle, cousin, niece, nephew, stepchild, stepparent, stepsister, stepbrother, mother-in-law, father-in-law, sister-in-law, brother-in-law, daughter-in-law or son-in-law.

X. EVALUATION OF PROPOSALS; AWARD OF CONTRACT

A. Following the receipt of proposals for the Property, the responsible PDC shall evaluate the proposals submitted and determine whether the highest of such proposals is reasonable, given the estimated Fair Market Value of the Property.

B. If the responsible PDC determines that the highest bid received is reasonable, the responsible PDC shall recommend to the Responsible Officer(s) or designee, as hereinafter defined in Article XI, that such bid be accepted, and upon the written approval of the Responsible Officer(s) or designee, the sale shall be made to the person offering such proposal. After obtaining all necessary approvals in accordance with Article XI "Authorization Levels," a Sales Agreement appended hereto ("Attachment C") must be executed by the responsible Authority staff member and by the successful bidder prior to completion of the transaction. (See Section XI.C.)

C. If either (a) the responsible PDC determines that the highest bid is not reasonable or (b) the Responsible Officer(s) or designee decline(s) to authorize the sale, the Property will, except as provided in paragraph D below, be retained for future disposal in accordance with these Guidelines. Factors to be considered in determining whether a bid is reasonable include, but are not limited to: adequacy of the estimate of the Fair Market Value, anticipated improved future market conditions, potential for other means of disposal or redeployment, financial viability of the bidder, and condition of the Property.

D. Notwithstanding any determination by the responsible PDC, the Responsible Officer(s) or designee, with the review and approval of the Contracting Officer, may direct the sale of the Property to the person or firm submitting the highest bid.

E. No Authority employee who is involved in the award of Authority grants or contracts, may ask any officer, director or employee of such current or prospective contractor or grantee to reveal: (a) the political party affiliation of the individual; (b) whether the individual or entity has made campaign contributions to any political party, elected official, or candidate for elective office; or (c) whether the individual voted for or against any political party, elected official or candidate for elective office.

F. No Authority employee may award or decline to award any grant or contract, or recommend, promise or threaten to do so because of a current or prospective grantee's or contractor's: (a) refusal to answer any inquiry prohibited by Section E above or (b) giving or withholding or neglecting to make any contribution of money, service or any other valuable thing for any political purpose.

G. No Authority employee may take part in any contracting decision involving the payment of $1,000 or more: (i) to a Relative; or (ii) to any entity in which a Relative owns or controls 10% or more of the stock of such entity (or 1% in the case of a corporation whose stock is regularly traded on an established securities exchange); or serves as an officer, director or

partner of that entity. If a contracting matter arises relating to this Section G, then the employee must advise his or her supervisor of the relationship, and must be recused from any and all discussions or decisions relating to the matter.

XI. AUTHORIZATION LEVELS AND SIGNING AUTHORITY

A. For the purposes of these Guidelines, the Responsible Officer(s) or designee will in each case review the appropriateness of the Fair Market Value estimate and the recommendation for contract award for disposal of the Property. Responsible Officers or designee are designated as follows:

1. The Board of Trustees, if the Fair Market Value of the Property is greater than $1,000,000 or if the Disposal is for less than Fair Market Value in accordance with paragraph VI.A.6; or

2. The President or the Chief Operating Officer or equivalent(s), if the Fair Market Value of the Property is up to $1,000,000; or

3. The Executive Vice President and Chief Financial Officer or equivalent(s), if the Fair Market Value of the Property is up to $750,000; or

4. For Fleet-related transactions, the Senior Vice President – Human Resources and Enterprise Shared Services or equivalent(s), if the Fair Market Value of the Property is up to $750,000; or

5. The Vice President – Procurement or equivalent(s), if the Fair Market Value of the Property is up to $500,000; or

6. For Fleet-related transactions, the Vice President – Enterprise Shared Services or equivalent(s), if the Fair Market Value of the Property is up to $500,000; or

7. The DSP&W, if the Fair Market Value of the Property is up to $100,000; or

8. For Fleet-related transactions, the Director – Fleet Operations, if the Fair Market Value of the Property is up to $100,000; or

9. The responsible PDC, if the Fair Market Value of the Property is $5,000 or less.

B. For public auctions or similar centralized disposals, such authorization should be obtained prior to submitting Property to auction based on the estimated Fair Market Value of the Property.

1. For purposes of these Guidelines, the Director - Fleet Operations (“DFO”) or equivalent(s) and DSP&W are authorized to sign Disposal Sales Agreements based upon the provisions of Section XI.A above whereby the DFO is authorized to sign

fleet-related sales agreements and the DSP&W may sign both fleet and non-fleet sales agreements.

2. For decentralized disposals, such authorization should be obtained prior to signing of Sales Agreement or award of contract, in accordance with the Authorization Levels set forth in Section XI.A. Sales Agreements for individual disposal transactions through a decentralized sale should be signed in accordance with the limits set forth in the Authority's Expenditure Authorization Procedures – Attachment C.

3. The foregoing provisions of this section shall not apply to the sale of energy and fuel. Such authorization shall be governed by the transaction authorization limits for energy and energy-related financial transactions, as adopted by the Authority's Board of Trustees.

XII. OTHER METHODS FOR DISPOSAL OF PERSONAL PROPERTY

A. Disposals as Part of a Competitive Procurement

These Guidelines are not intended to restrict disposals as part of a competitive procurement, including trade-ins, where the procurement is competitively bid and awarded in accordance with the Authority's Guidelines for Procurement Contracts and Fair Market Value can be obtained for the Property. Any such proposed disposal must be included as part of the solicitation of bids for the procurement. The solicitation must also include an estimated Fair Market Value of the Property or minimum bid amount. The disposal or trade-in value must be stated in the proposals from bidders. When disposing of Property as part of a competitive procurement, the Authority may consider the cost difference between the accepted proposal and the next lowest responsive proposal as part of the consideration for the disposal of the Property.

B. Return to the Original Equipment Manufacturer ("OEM") or to the Source

For Property with a Fair Market Value of $15,000 or less, return of materials to the OEM or the source is permissible provided that the Authority receives full value for any materials equal to the price paid by the Authority or the estimated Fair Market Value of the Property. In the event a re-stocking fee is charged by the OEM or the source, the DSP&W or the Contracting Officer or authorized designee, as appropriate, shall be consulted to determine if such a re-stocking fee is reasonable and if there are other opportunities for sale of such material. Approval of all such returns to the OEM or the source when a re-stocking fee is charged, must be in accordance with the Authorization Levels delineated in Section XI.A.

C. Disposal through the New York State Office of General Services (OGS)

The Authority may utilize OGS for Disposal of Authority-owned Property including on-line disposal methods offered by OGS. In addition, in accordance with New York State law, surplus computers and related accessories, surplus office furniture, and other equipment may, with the

approval of the Contracting Officer or authorized designee, be transferred to OGS for disposition, in the case of computers and accessories to school districts located near Authority offices or operating facilities, or in the case of office furniture and office equipment, to other state entities. Disposal of these items in this manner represents the best value to New York State in lieu of attempted re-sale of such materials.

XIII. METHODS OF PAYMENT

The proceeds from the sale of Property in the form of cash or a certified check made payable to the Authority must be forwarded to the Authority's Treasurer by the Facility PDCs and to the Authority's Controller's Office by the DSP&W and WPO PDC(s). In certain cases involving a transfer of Property to other state agencies or authorities, the performance of documented services to the Authority equal to or greater in value to the Fair Market Value of the Property, will serve as payment for such Property. The authorization limits of Article XI shall apply to such transactions.

XIV. REPORTING REQUIREMENTS

A. The Authority shall publish, not less frequently than annually, a report of all Property having a FMV in excess of $5,000 that was disposed of during the reporting period, including the full description, price (if any) received and the name of the purchaser for all such Property disposed of by the Authority during such period. Such report shall be prepared in conjunction with the report required by the Authority's "Guidelines for the Disposal of New York Power Authority Real Property."

B. Such report, as approved by the Board of Trustees, shall be submitted to the State Comptroller, the Director of the Division of the Budget, the Commissioner of General Services, the State Legislature and the Authorities Budget Office.

C. These Guidelines, as approved by the Trustees, shall be reviewed and approved annually by the Authority's Board of Trustees. On or before the thirty-first day of March in each year, the Authority shall file with the State Comptroller a copy of the Guidelines most recently reviewed and approved by the Board of Trustees, including the name of the Authority's designated Contracting Officer. At the time of filing such Guidelines with the Comptroller, the Authority shall also post such Guidelines on the Authority's internet website and maintain such Guidelines on the website.

D. For disposal by negotiation of Property over $15,000, Property of any value related to the disposal of Real Property by exchange, or Property where part of the consideration received is Real Property, an explanatory statement shall be prepared and submitted to the parties as set forth in Subsection VI.A.5.

E. The Authority's Governance Committee meets at least three times per year. Staff from the Business Services Business Unit, or equivalent(s), prepare and present ongoing reports regarding disposals of personal property and real property.

The Authority may be called upon periodically to submit information regarding the Disposal of Personal Property to organizations implementing the PAAA or other statutes regulating the disposal of Property, such as the Authorities Budget Office through the Public Authorities Reporting Information System ("PARIS").

BID SHEET

The following personal property is available for sale "AS IS, WHERE IS" and the Power Authority gives no warranty whatsoever as to its condition.

LUMP SUM BID AMOUNT* $_____

Subject to all terms and conditions set forth on the reverse hereof, the undersigned offers and agrees to purchase the above-described personal property at the bid amount indicated.

Signature	Company Name
Name (printed)	Street Address
Date	City, State Zip Code
Fax Number	Telephone Number

* All sales are subject to New York State Sales Tax and Compensating Use Tax unless the Purchaser furnishes the Authority with an exemption certificate.

PERSONAL PROPERTY SALE
SALE NO. _____
NEW YORK POWER AUTHORITY
(ADDRESS OF PROJECT)
Telephone: ( )_____
FAX: ( )_____

Subject to the terms and conditions stated below, bids will be received on the personal property, either by mail, fax or hand delivery at the (Location)_____ no later than (Date)_____

The personal property is available for inspection, by appointment, at the (Project)_____. For an appointment, please contact the Property Disposal Coordinator, (Name)_____ at (Telephone no.)____.

Successful bidders will be required to pay by certified check, on notice from the Authority that the bid has been accepted, and remove the personal property from the Authority's premises within ten (10) calendar days after receipt of notice of award.

Envelopes containing bids submitted by mail should be marked on the outside to indicate that a bid on Sale No._____ is enclosed.

Current and former employees of the Power Authority or relatives of such employees or third parties acting on behalf of such employees or relatives are ineligible to bid and are prohibited from subsequently acquiring such personal property in any manner.

1. **INSPECTION.** Bidders are invited, urged and cautioned to inspect the personal property being sold prior to submitting a bid. The personal property will be available for inspection at the time and place specified above. In no case will failure to inspect constitute grounds for the withdrawal of a bid after opening.

2. **CONDITION OF PROPERTY.** All personal property listed is offered for sale "AS IS, WHERE IS". The Authority does not in any way warrant the fitness of the personal property for any particular use or its merchantability and disclaims any other representations or warranties, express or implied, including, but not limited to, quality, character, performance or condition of the personal property or any of its component parts, assemblies, or accessories.

3. **CONSIDERATION OF BIDS.** Bids must be submitted in writing on the form provided by the Authority (see reverse side) and shall be submitted on all items listed. The Authority reserves the right to reject any and all bids, to waive technical defects in bids and to award sale of the items as may be in the best interest of the Authority.

4. **PAYMENT.** The Purchaser agrees to pay for the awarded personal property in accordance with the prices quoted in his/her bid. Payment of the full purchase price must be made within the time allowed for removal, and prior to the release of any personal property to the Purchaser.
5. **NEW YORK STATE SALES AND COMPENSATING USE TAX.** All sales will be subject to New York State Sales and Compensating Use Tax unless the Purchaser furnishes the Authority with an exemption certificate.

ADVERTISEMENT FOR PROPOSALS

The following described personal property, shall be sold "AS IS, WHERE IS" by the New York Power Authority ("the Authority").

1. Sealed bids are invited for the above, which will be available for inspection by inquiry at the (Location/Building) _____ at the (Project and Address) _____ ____between the hours of __ a.m. to _____ p.m. on __(Date/s)____. Bids must be submitted on the Authority's bid form, which can be obtained by calling (Telephone no.) __. No bid will be accepted unless it is on such form. Bids shall be accepted on or before ___ p.m. on (Date) __.

2. Current and former employees of the Authority or relatives of such employees or third parties seeking to act on behalf of such employees or relatives shall be ineligible to bid.

3. Successful bidders, on notice from the Authority, shall be required to pay by certified check and shall promptly remove the personal property from the Authority's property.

4. The Authority reserves the right to reject any and all bids.

PERSONAL PROPERTY
SALES AGREEMENT

_____, the Buyer, and the Power Authority of the State of New York ("the Authority"), agree as follows:

1. The personal property identified herein is sold by the Authority and purchased by Buyer "AS IS, WHERE IS" at the price(s) shown, plus any applicable sales tax.

2. **THE AUTHORITY DOES NOT IN ANY WAY WARRANT THE FITNESS OF THE PERSONAL PROPERTY FOR ANY PARTICULAR USE OR ITS MERCHANTABILITY AND DISCLAIMS ANY OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO, THE QUALITY, CHARACTER, PERFORMANCE, OR CONDITION OF THE PERSONAL PROPERTY OR ANY OF ITS COMPONENT PARTS, ASSEMBLIES, OR ACCESSORIES.**

3. The Buyer warrants that he/she/it is not a current or former Authority employee, is not related to an Authority employee, and did not bid on behalf of an Authority employee. Buyer is aware that Authority employees and their family members are precluded from subsequently receiving, or acquiring, in whole or in part, by any manner including gift, sale, loan or lease, the personal property acquired by the Buyer pursuant to this sale. The term "related to" as used in this paragraph means the relationships of spouse, child, parent, sister, brother, grandparent, grandchild, aunt, uncle, cousin, niece, nephew, stepchild, stepparent, stepsister, stepbrother, mother-in-law, father-in-law, sister-in-law, brother-in-law, daughter-in-law, or son-in-law. The Authority reserves the right to invoke any available legal or equitable remedy in the event of a breach by the Buyer of his or her warranty under this paragraph, including but not limited to, rescinding the sale and recovering the property sold and all costs associated with the sale and the rescission of said sale.

4. The Buyer shall indemnify and hold harmless the Authority and all of its officers, agents and employees from any loss, damage, remedial or response cost, liability or expense, on account of damage or contamination to property and injuries, including death, to all persons, including Buyer's employees, or any third parties, arising or in any manner growing out of the sale of any personal property or the performance of any work under this agreement and shall defend at its own expense any suits or other proceedings brought against the Authority and its officers, agents and employees, or any of them, on account thereof, and pay all expenses and satisfy all judgments which may be incurred by or rendered against them or any of them in connection therewith.

5. Except for disposals by public auction, the Buyer shall remove the personal property from the Authority's premises by_____ at Buyer's expense. The Buyer shall make payment upon delivery by certified check payable to the New York Power Authority.

Description of Personal Property:

Selling Price: _____

Executed this _____ day of _____ 20

Buyer (print or type)

_____

_____

_____

_____
Authorized Signature

_____
Full Name (printed)

_____
Title

Seller:
Power Authority of the State of New York

123 Main Street

White Plains, NY 10601

_____
Authorized Signature

_____
Title

PRIVACY LAW NOTIFICATION

SECTION 94(1)(d) OF THE NEW YORK PUBLIC OFFICERS LAW REQUIRES THIS NOTICE TO BE PROVIDED WHEN COLLECTING PERSONAL INFORMATION FROM POTENTIAL PURCHASERS OF AUTHORITY PROPERTY.

This information is requested pursuant to Article 5, Title I of the Public Authorities Law. The principal purpose for which the information is collected is to assist the Power Authority of the State of New York in the sale of Authority personal property in accordance with Section 96(1) of the Personal Privacy Protection Law, particularly subdivisions (b), (e) and (f).

Failure to provide the requested information may result in ineligibility for participation in a program, sale or benefit provided by the Authority.

This information will be maintained by Fleet Operations, at the Power Authority of the State of New York, Clark Energy Center located at 6520 Glass Factory Road, Marcy, N.Y. 13403, (315) 724-8186 or, when appropriate, by the Procurement Department at the Corporate office or at one of the Authority facilities.

POWER AUTHORITY OF THE STATE OF NEW YORK

2018 ANNUAL REPORT OF DISPOSAL OF PERSONAL PROPERTY OVER $5,000

DESCRIPTION	PURCHASER	SALE PRICE	PRICE RECEIVED by the Authority
SCRAP METALS AT ST LAWRENCE PROJECT	**CASELLA WASTE SYSTEMS, INC.**	**$ 6,610.75**	**$ 6,610.75**
	SUBTOTAL:	**$ 6,610.75**	**$ 6,610.75**

POWER AUTHORITY OF THE STATE OF NEW YORK

2018 ANNUAL REPORT OF DISPOSAL OF PERSONAL PROPERTY OVER $5,000

FLEET OPERATIONS

DESCRIPTION	PURCHASER	SALE PRICE	Transportation and Other Fees	PRICE RECEIVED by the Authority
1988 CATERPILLAR DOZER D6	JD SALES	$ 32,000.00	$ 100.00	$ 31,900.00
1999 CATERPILLAR BRONTOSAURUS	MCGREW EQUIPMENT	$ 58,500.00	$ 100.00	$ 58,400.00
2000 ROLLINGSTAR TRAILER	CARVER CONSTRUCTION	$ 6,100.00	$ 100.00	$ 6,000.00
2002 ROLLINGSTAR TRAILER	CARVER CONSTRUCTION INC	$ 6,250.00	$ 100.00	$ 6,150.00
2002 ROLLINGSTAR TRAILER	CARVER CONSTRUCTION	$ 6,250.00	$ 100.00	$ 6,150.00
2005 PETERBILT 335	TIOGA CONSTRUCTION COMPANY INC	$ 49,000.00	$ 100.00	$ 48,900.00
2007 ARGO AVENGER	RICHARD GILMORE	$ 5,750.00	$ 100.00	$ 5,650.00
2007 CPST GT3000/2007 ALTC AC26-103S	MATTHEW SMITH	$ 65,000.00	$ 200.00	$ 64,800.00
2007 CAMOPLAST TROOPER	OUTDOOR MOTOR SPORTS LLC	$ 36,000.00	$ 100.00	$ 35,900.00
2007 CAMOPLAST TROOPER	PETERSON EQUIPMENT COMPANY	$ 31,500.00	$ 100.00	$ 31,400.00
2007 CAMOPLAST TROOPER	CLINTON THOMPSON	$ 30,000.00	$ 100.00	$ 29,900.00
2007 JLG 660SJ	JOSEPH RIZZO	$ 33,000.00	$ 100.00	$ 32,900.00
2007 JLG 660SJC	ALAUDDIN GEN TRADING CO LLC	$ 31,000.00	$ 100.00	$ 30,900.00
2008 FORD F550/2009 AF SPREADER	ICAR AUTO SALES LLC	$ 15,000.00	$ 100.00	$ 14,900.00
2009 BOBCAT T320 LOADER	TIMOTHY JOANETTE	$ 23,000.00	$ 100.00	$ 22,900.00
2009 FORD F150	BRAVO AUTO SALES INC	$ 9,500.00	$ 100.00	$ 9,400.00
2009 FORD F150	ELDU ENERGY SERVICES CORPORATION	$ 9,250.00	$ 100.00	$ 9,150.00
2010 BOBCAT 5600	CALANDRA RACING CONCEPTS INC	$ 18,000.00	$ 100.00	$ 17,900.00
2010 CHEVROLET TAHOE	DANNI MILLER	$ 8,500.00	$ 100.00	$ 8,400.00
2010 CHEVROLET TAHOE	WOLCOTT AUTO PARTS INC	$ 8,000.00	$ 100.00	$ 7,900.00
2010 FORD F450	JOE POTTENBURGH	$ 7,500.00	$ 100.00	$ 7,400.00

POWER AUTHORITY OF THE STATE OF NEW YORK

2018 ANNUAL REPORT OF DISPOSAL OF PERSONAL PROPERTY OVER $5,000

FLEET OPERATIONS (CONTINUED)

DESCRIPTION	PURCHASER	SALE PRICE	Transportation and Other Fees	PRICE RECEIVED by the Authority
2010 JLG 660SJC	PITTSFIELD LAWN & TRACTOR	$ 37,500.00	$ 100.00	$ 37,400.00
2011 CHEVROLET SUBURBAN	SEMIR MUJIC	$ 12,250.00	$ 100.00	$ 12,150.00
2011 CHEVROLET TAHOE	UPSTATE AUTO SALES	$ 7,500.00	$ 100.00	$ 7,400.00
2011 CHEVROLET TAHOE	UPSTATE AUTO SALES	$ 7,500.00	$ 100.00	$ 7,400.00
2011 FORD F250	SUPPLY WAGON RENTALS LLC	$ 14,250.00	$ 100.00	$ 14,150.00
2011 FORD F250	ICAR AUTO SALES	$ 10,500.00	$ 100.00	$ 10,400.00
2011 KUBOTA RTV1100CWXL-A	RENODIN'S PRODUCE	$ 10,000.00	$ 100.00	$ 9,900.00
2011 KUBOTA RTV1100CWXL-A	A W C LLC	$ 6,500.00	$ 100.00	$ 6,400.00
2013 FORD F150	TODD CABLE CONSTRUCTION LLC	$ 10,250.00	$ 100.00	$ 10,150.00
2013 PISTEN BULLY SCOUT	PETERSON EQUIPMENT COMPANY	$ 32,500.00	$ 100.00	$ 32,400.00
2015 CHEVROLET TAHOE	ICAR AUTO SALES LLC	$ 15,500.00	$ 100.00	$ 15,400.00
2015 CHEVROLET TAHOE	ICAR AUTO SALES LLC	$ 15,500.00	$ 100.00	$ 15,400.00
2016 SUBARU CROSSTREK	UPSTATE AUTO SALES	$ 7,000.00	$ 100.00	$ 6,900.00
2009 INTL NAVISTAR SCHOOL BUS*	GREATER AMSTERDAM SCHOOL DIST	$ 75,000.00	$ 0.00	$ 0.00
2013 THOMAS BUILT SCHOOL BUS*	GATES CHILI SCHOOL DIST	$ 75,000.00	$ 0.00	$ 0.00
	FLEET SUBTOTAL:	$ 825,850.00	$ 3,500.00	$ 822,350.00
	+ SUBTOTAL Page 1:	$ 6,610.75	--	$ 6,610.75
	GRAND TOTAL:	$ 832,460.75	$ 3,500.00	$ 828,960.75

* Sale Price = Fair Market Value for these two vehicles. These vehicles were transferred to the Program Participants for $0.

Exhibit "A-1"
March 26, 2019

POWER AUTHORITY OF THE STATE OF NEW YORK
2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS

EXECUTIVE SUMMARY

The Power Authority of the State of New York (the "Authority") is a corporate municipal instrumentality and political subdivision of the State of New York. The Authority generates, transmits and sells electric power and energy principally at wholesale. The Authority's primary customers are municipal and investor-owned utilities and rural electric cooperatives located throughout New York State, high-load-factor industries and other businesses, various public corporations located within the metropolitan area of New York City and certain out-of-state customers. The Authority does not use tax revenues or State funds or credit. It finances construction of its projects through bond and note sales to private investors and repays the debt holders with proceeds from operations.

The Authority requires the services of outside firms for accounting, engineering, legal, public relations, surveying and other work of a consulting, professional or technical nature to supplement its own staff, as well as to furnish varied goods and services and perform construction work. Many of these contracts are associated with the construction, maintenance and operation of the Authority's electric generating and transmission facilities, transmission lines, as well as for support of Energy Solutions ("ES") and Energy Efficiency ("EE") programs.

The Canal Corporation is fully integrated into the NYPA procurement process and all related contracts for goods and services are included in this report.

PROCUREMENT GUIDELINES (Exhibit "A-2")

In compliance with the applicable provisions of § 2879 of the Public Authorities Law ("PAL"), as amended, the Authority has established comprehensive Guidelines detailing its operative policy and instructions concerning the use, awarding, monitoring and reporting of procurement contracts. The Guidelines describe the Authority's process for soliciting proposals and awarding contracts. Topics detailed in the Guidelines include solicitation requirements, evaluation criteria, contract award process, contract provisions, change orders, Minority- and Women-owned Business Enterprise ("MWBE") and Service-Disabled Veteran-Owned Business ("SDVOB") requirements, employment of former officers and reporting requirements. These Guidelines, approved by the Authority's Trustees, were initially implemented on January 1, 1990, and have been amended as deemed advisable and necessary, and reviewed and approved by the Board annually since that date, most recently on March 20, 2018.

Staff has reviewed the Procurement Guidelines and recommends several changes to make them more consistent with the law or to improve or clarify the Authority's procurement process. These amended Guidelines, as reviewed by the Governance Committee on March 26, 2019, are now presented to the full Board of Trustees for review and approval at their meeting of the same date. The approved Guidelines will become effective on March 31, 2019 and will be posted on the Authority's internet website. Such Guidelines will also be filed with the Director of the Division of the Budget, the Department of Audit and Control, the Department of Economic Development, the Senate Finance Committee, the Assembly Ways and Means Committee and the Authorities Budget Office within 90 days of the end of the calendar year.

ACCOMPLISHMENTS

Major Procurement efforts in 2018 included purchase of goods, services and construction work in support of the Authority's newly designed Integrated Smart Operations Center (ISOC), the operating projects and Headquarters facilities, Life Extension and Modernization ("LEM") Program at Niagara's Lewiston Pump Generating Plant, Transmission LEM and EE Programs. The Authority's SSM Department also supports the requirements of the Authority's operations and maintenance work, capital projects including the Plattsburgh to Vermont PV-20 line installation across Lake Champlain, Energy Solutions Programs including the NY Energy Manager, the Puerto Rico Electric Power Authority (PREPA) hurricane Maria relief effort, Headquarters operations along with the Authority's Strategic Initiatives and Digital Transformation.

In an effort to align NYPA's procurement processes with the industry's best practices, the Strategic Supply Management group has implemented SAP Ariba Procure to Contract platform with a comprehensive Supplier Information Management and Performance, Electronic Sourcing, and Contract Management system. In 2017 SSM fully adopted the first of two modules, Supplier Information and Performance Management ("SIPM") and eSourcing. SIPM has provide the functionality to manage suppliers' information and performance, which will be measured via surveys completed by the project team. The Ariba eSourcing streamlines the bidding processes by using electronic documents and automating processes and controls. The Contract Management module documents any negotiated changes to the terms and conditions of contract document and was implemented in 2018.

In 2018 SSM began expanding the Ariba platform with the addition of Catalog Management and Risk Management modules. Both modules will be fully integrated in 2019. The Catalog Management feature will enable catalog technology for frequently used goods to be procured easily and efficiently. The first catalogs will be for lighting fixtures in support of the Energy Services projects along with maintenance, repair and operations items (MRO).

The Ariba Risk module helps to assess, mitigate and monitor supplier risk in the following areas: environmental/social, financial, operational, and regulatory/legal compliance for our current supplier base along with potential bidders. The tool also helps identify inherent risk for sourcing events and remediation activities to mitigate identified exposures.

SUPPLIER DIVERSITY PROGRAM ("SDP")

From January to December 2018, the Authority and the Canal Corporation expended $76.8 Million or 22.4% of its reportable expenditures to New York State-certified MWBEs. This includes direct contracts and subcontracts, as well as construction and energy efficiency-related work. Additionally, Treasury transactions with NYS-certified MWBE financial dealers for the calendar year 2018 resulted in $875.8 Million or 48.6% in principal sales and purchases for the Authority.

In 2018, the Authority's MWBE Goal Plan was approved for 22% MWBE participation, due to factors that have hamstrung the Authority from meeting the State's goal of 30%, but attainable based on past performance. We are confident that the new procurement model, proper goal assessment, enhanced tracking and reporting of certified diverse firms along with the revised approaches in determining MWBE goal participation, will collectively provide the Authority continued success in providing opportunities to diverse suppliers.

The Authority continues to work diligently with Empire State Development ("ESD") and the Office of General Services to meet their respective legislative requirements.

SERVICE-DISABLED VETERAN-OWNED BUSINESS ("SDVOB") PROGRAM

The Service-Disabled Veteran-Owned Business Act was signed into law by Governor Andrew M. Cuomo on May 12, 2014. In January of 2015, the Authority was selected as one of four (4) authorities to participate in a pilot program under the auspices of the Office of General Services ("OGS"). The program is now in full effect and all New York State agencies and authorities are mandated to meet six percent (6%) SDVOB participation goals. NYPA will continue to aggressively support the SDVOB program.

Service-Disabled Veteran-Owned Business (SDVOB) utilization for the period January – December 2018 is approximately $10.2 Million or 46% of designated spend. Additionally, SDVOB financial dealers transacted over $362.7 Million or 20.1% in principal sales and purchases during the same period. The Authority continues to be recognized by the Office of General Services as one of the leading agencies in this area. As the program evolves, target areas will be expanded to afford even greater procurement opportunities for the SDVOB community.

CREDIT CARD PROCUREMENT SYSTEM

The Credit Card Procurement System (CCPS) is utilized to procure goods and services valued under $5,000. At the end of 2018, the Authority had approximately 304 cardholders in both headquarters and operating facilities including Canal. The average value of a single transaction was approximately $621. The average number of credit card transactions was 1876 per month, with an average total monthly value of $1.6 million, totaling nearly $14 million for the year, an increase of more than $3.8 million over last year. This increase is due to additional credit card activity in support of Puerto Rico Electric Power Authority (PREPA) relief efforts.

The total amount of the rebate for the Authority from JP Morgan Chase based on credit card activity for the year 2018 has exceeded $143,000.

2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS (Exhibit "A-3")

The Annual Report includes specific details for procurements with a value of $5,000 or greater that were open, completed or awarded in 2018, including contracts that were extended into 2019 or beyond. There were 3,072 such contracts with an estimated value of more than $8.4 billion, which also includes Canal, fossil fuel and corporate finance expenditures. Total procurement expenditures in 2018 exceeded $854 million. This amount includes more than $178 million for the purchase of fossil fuels and related services.

The following is a breakdown of the total value of contracts including fuels and corporate finance by contract type:

- 44% Equipment and Commodities
- 34% Construction Services
- 11% Non-Personal Service contracts such as maintenance, repairs, and technicians
- 6% Personal Services contracts such as professional consulting services
- 2% Maintenance / Outage services
- 1% Architectural and Engineering and Legal Services
- 1% Contingent Workforce Services
- 1% IT Hardware and Software and IT Development services

Approximately 98% of contract value was competitively bid. In 2018, approximately 2% of contracts (with a total contract value of $166 million), were sole/single-source awards, which included over $1 million in MWBE, SDVOB, and SBE contract awards. The sole/single-source awards included, but were not limited to, the purchase of spare parts and services from original equipment manufacturers (OEM), procurements from proprietary sources and procurements required on an emergency basis.

Company Policy Title:

Policy Number:

NEW YORK STATE OF OPPORTUNITY. | NY Power Authority

NYPA GUIDELINES FOR PROCUREMENT CONTRACTS

CP 3-1

Revision Date(For BCG Use Only)	Revision #	Description/Modification	Revision Section (s)	Author
	1	Per PAL §2879, the Guidelines were adopted by resolution and are reviewed annually and approved (by the Trustees). Updates proposed for clarity, ease of use and include minor changes to reflect current regulatory and statutory changes.	Sections 1,2,3,4,6,7, 10 and 13	Diane Gil, Senior Director, Procurement Governance & Analytics Center of Excellence

Printed copies are not controlled.
For the latest revision of this document, refer to the Policy and Procedure PowerNet Site.
Records will be retained in accordance with NYPA's approved records retention schedules and/or in compliance with all applicable legal requirements pertaining to NYPA.

NYPA GUIDELINES FOR PROCUREMENT CONTRACTS

1. PURPOSE

These Guidelines for Procurement Contracts ("Guidelines") set forth the policy of the Authority regarding the solicitation and awarding of Procurement Contracts. The provisions of Article 4-C of the Economic Development Law, §§ 2879 and 2879-a of the Public Authorities Law, Articles 15-A and 17-B of the Executive Law and §§ 139-j and 139-k of the State Finance Law were considered in developing these Guidelines. Departments and facilities may adopt further procedures to implement these Guidelines.

2. DEFINITIONS

A. "Procurement Contracts" are contracts for the acquisition of goods and/or services in the actual or estimated amount of $5,000 or more. Such goods and/or services are those necessary to support the Authority's White Plains office, facilities, operations and maintenance ("O&M") and capital projects (as defined in Section 2.O. and 2. P., respectively), including but not limited to goods such as office supplies, major electrical equipment, construction and maintenance work and services as more fully described in Section 2.C. below.

B. "Non-Procurement Contracts" include contracts under $5,000, contracts for energy with or without environmental attributes included, capacity, renewable energy certificates, ancillary services, transmission, distribution or related services in support of providing service to Authority customers; contracts for differences; financial hedge contracts (including but not limited to swaps, calls, puts or swap options) or credit rating services; certain insurance and healthcare products that do not readily lend themselves to a competitive solicitation. In addition, Non-Procurement Contracts include direct placement of advertisements with radio, television, print and electronic media, periodicals, subscriptions, reference materials or professional research tools, written materials, fees or tuition associated with continuing education courses, training courses, conferences, seminars and symposiums, funding agreements, co-funding agreements, grants or memberships in various industry groups, professional societies or similar cooperative associations, or any cooperative projects and procurement activities conducted or sponsored by such organizations in which the Authority participates.

C. "Services Contracts" are Procurement Contracts for services of a consulting, professional or technical nature provided by outside consultants/contractors (individuals, partnerships or firms who are not and do not employ officers or employees of the Authority) for a fee or other compensation. Services Contracts comprise three specific types: Personal Services, Non-Personal Services and Construction. Personal Services include, but are not limited to: accounting, architectural, engineering, financial advisory, legal, public relations, planning, management consulting, surveying, training (when specifically developed by consultant for the Authority) and construction management. Non-Personal Services include, but are not limited to: skilled or unskilled temporary personnel, including clerical office staff, technicians or engineers working under Authority supervision; maintenance, repairs, and printing services. Construction consists of craft labor and other services utilizing laborers and/or mechanics not otherwise considered Non-Personal Services.

Note: Use of such services may be appropriate (1) when a consultant/contractor possesses special experience, background or expertise; (2) when there is insufficient Authority staff and retention of a consultant/contractor is more appropriate or economical than hiring additional permanent staff; (3) to provide independent external review or a second opinion; (4) to meet unusual schedule requirements or emergencies or (5) for a combination of these factors.

D. "Goods" include equipment, material and supplies of any kind. Procurement Contracts that include both equipment and services may be classified as Equipment," where 60% or more of the total projected contract value will be for the purchase of equipment, material or supplies.

E. "Evaluation of Proposals," as further set forth in Section 4 below, includes as evaluating factors the Authority's consideration of a bidder's skill, judgment and business integrity.

F. "Contact" is any oral, written or electronic communication with the Authority under circumstances where a reasonable person would infer that the communication was intended to influence the Authority's conduct or decision regarding the procurement.

G. "Relative" is any person living in the same household as the Authority employee or any person who is a direct descendant of the Authority employee's grandparents or the spouse of such descendant, as referred to in Subsection 9.E.1 of these Guidelines. The term Relative may include, but is not limited to, the relationship of spouse, child, parent, sister, brother, grandparent, grandchild, aunt, uncle, cousin, niece, nephew, stepchild, stepparent, stepsister, stepbrother, mother-in-law, father-in-law, sister-in-law, brother-in-law, daughter-in-law or son-in-law.

H. "Minority- and Women-owned Business Enterprise" ("MWBE") is defined as any New York State-certified business enterprise at least 51% of which is owned by black persons, Hispanics, Native Americans, Asians, Pacific Islanders and/or women, and as further described in the Authority's Supplier Diversity Program Policy and Procedures and Executive Law Article 15-A, and pursuant to the definition found in Executive Law § 310.

I. "Small Business" (or Small Business Enterprise, "SBE"), pursuant to Executive Law § 310 and as used in these Guidelines, unless otherwise indicated, is a business that has a significant business presence (as defined at 5 NYCRR 140.1) in New York State, is independently owned and operated, not dominant in its field and employs not more than 300 people.

J. "Single Source" is a procurement in which the Authority, upon written findings setting forth material and substantial reasons, may award a contract (or amendment to a contract) to one offeror over another that can supply the goods or services.

K. "Sole Source" is a procurement in which only one offeror is capable of supplying the required goods or services.

L. "Service-Disabled Veteran-Owned Business" ("SDVOB") is a business enterprise, including a sole proprietorship, partnership, limited liability company or corporation that is at least 51% owned by one or more service-disabled veterans; in which such

ownership is real, substantial and continuing, and also has and exercises the authority to control independently the day-to-day business decisions of the enterprise; is a Small Business and is certified by the New York State Office of General Services, as further set forth in Article 17-B of the Executive Law.

M. "Discretionary Purchase" is a procurement made below statutorily established monetary threshold amounts (e.g., not exceeding $200,000 for the purchase of commodities and/or services from Small Business Enterprises or NYS-certified MWBE firms, and without a dollar cap for SDVOB firms as further set forth in Sections 3.D and 3.K.5-7) and at the discretion of the Authority, without the need for a formal competitive bid process. For the purpose of determining whether a purchase is within the discretionary thresholds, the aggregate amount of all purchases of the same commodities and/or services to be made within the 12-month period commencing on the date of purchase shall be considered. A change to or a renewal of a discretionary purchase shall not be permitted if the change or renewal would bring the reasonably expected aggregate amount of all purchases of the same commodities and/or services from the same provider within the 12-month period commencing on the date of the first purchase to an amount greater than $200,000, pursuant to State Finance Law § 163.

N. "Disadvantaged Business Enterprise" (DBE) is a for-profit small business concern (1) that is at least 51 percent owned by one or more individuals who are both socially and economically disadvantaged or, in the case of a corporation, in which 51 percent of the stock is owned by one or more such individuals; and (2) whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individuals who own it, pursuant to the definition found in 49 C.F.R Part 26.

O. "Operation and Maintenance" ("O&M") generally refers to the work or services necessary to keep the plants, transmission lines, and other equipment and facilities to include NYPA customers, where authorized, (collectively referred to generally as an "asset") in optimal operating condition and/or to restore an asset to its productive capacity. This includes the cost of inspecting, testing, analyzing and reporting on the condition of the asset required to determine repairs or replacement, as well as costs associated with the normal operation and administration of NYPA's production/transmission facilities and energy programs.

P. "Capital projects" generally refers to the acquisition or construction of new assets, the replacement and/or betterment of existing assets, equipment or property (including those of NYPA's customers, where authorized). Betterment refers to an extension of the useful life or improvement in the efficiency and/or capacity of the asset, equipment or property.

3. SOLICITATION REQUIREMENTS

A. Preparation of the solicitation of proposals for Procurement Contracts is the joint responsibility of the White Plains Strategic Supply Management ("SSM") Department, or the facilities' SSM Departments, and the initiating department. Except as otherwise authorized by these Guidelines, a Request for Proposals ("RFP") or Request for Quotations ("RFQ") will be made available to a minimum of three providers and/or firms (if available)

for purchases valued under $50,000 and a minimum of five providers and/or firms (if available) for purchases valued at $50,000 and greater, commensurate with the magnitude and nature of the goods and/or services, and the schedule for performance.

B. Prospective bidders on Procurement Contracts may be prequalified by invitation advertised in the same manner as an RFP/RFQ (referred to as a Request for Qualifications and/or Request for Information ("RFI"). In such cases, proposals are requested only from those providers and/or firms whose prequalification submittals demonstrate sufficient ability and competence (including, but not limited to, the bidder's skill, judgment and business integrity) to supply the particular goods and/or perform the particular services required.

C. The Authority may withdraw any pending solicitation (including but not limited to RFPs and RFQs) at any time, for cause or no cause. Any person or entity submitting any responsive document to the Authority does so at its own cost or expense and will not be reimbursed by the Authority for the preparation of any responsive document, unless otherwise agreed to in writing and signed by an authorized Authority representative.

D. In order to promote the use of Minority- and Women-owned Business Enterprises ("MWBEs"), Service-Disabled Veteran-Owned Businesses ("SDVOBs") and Small Business Enterprises ("SBEs"), the Authority will solicit offers from such firms known to have experience in the type of goods and/or services to be provided, regardless of the type of contract. For the purpose of these Guidelines, the definitions of NYS-certified MWBE or SDVOB firms and SBEs are set forth in Sections 2.H, 2.L and 2.I, respectively.

To foster increased use of MWBEs and SBEs, a single proposal may be sought, negotiated and accepted for discretionary purchases of goods and/or services not exceeding $200,000, in the aggregate including all amendments, from a NYS-certified MWBE or an SBE that offers a reasonable price for such goods and/or services. An SDVOB may be awarded on the basis of a single proposal that offers a reasonable price for such goods and/or services without a dollar cap. The award of such proposal requires the written approval of the Vice President, SSM. Any subsequent alteration to the accepted proposal, including, but not limited to, change orders, amendments, or supplemental terms shall also necessitate the written approval of the Vice President, SSM. Furthermore, the award of such Procurement Contracts will be noticed on the *Contract Reporter* website, as further set forth in Section 3.H.

E. It is the policy of New York State to promote the participation of and maximize the opportunities for New York State Business Enterprises and New York State residents in Procurement Contracts. The Authority will endeavor to promote such participation and to comply with the applicable statutory provisions. In furtherance of Public Authorities Law § 2879, the following definitions and actions apply:

1. "New York State Business Enterprise" is a business enterprise, including a sole proprietorship, partnership or corporation that offers for sale or lease or other form of exchange, goods sought by the Authority that are substantially manufactured, produced or assembled in New York State or services, excluding construction services, sought by the Authority that are substantially performed within New York State as further described in Public Authorities Law § 2879.

2. "New York State resident" is a person who maintains a fixed, permanent and principal home in New York State to which such person, whenever temporarily located, always intends to return as further described in Public Authorities Law § 2879.

3. "Foreign Business Enterprise" is a business enterprise, including a sole proprietorship, partnership or corporation, that offers for sale, lease or other form of exchange, goods sought by the Authority that are substantially produced outside New York State, or services other than construction services, sought by the Authority that are substantially performed outside New York State as further described in Public Authorities Law § 2879. For purposes of construction services, Foreign Business Enterprise is a business enterprise, including a sole proprietorship, partnership or corporation, which has its principal place of business outside New York State.

4. "Discriminatory Jurisdiction" is any country, nation, province, state or political subdivision thereof which employs a preference or price distorting mechanism to the detriment of, or otherwise discriminates against, a New York State Business Enterprise in the procurement of goods and/or services by the same or a non-governmental entity influenced by the same.

5. Pursuant to Public Authorities Law § 2879, the Authority shall not enter into a contract with a Foreign Business Enterprise which has its principal place of business in a Discriminatory Jurisdiction contained on the list prepared by the Commissioner of the New York State Department of Economic Development ("DED"). The provisions of this section may be waived by the Authority's President and CEO if the CEO determines in writing that it is in the best interests of the Authority to do so, as further set forth in the above-referenced law.

6. Pursuant to Public Authorities Law § 2879, the Authority will, where feasible, make use of the stock item specification forms of New York State manufacturers, producers and/or assemblers, as made available by the Commissioner of General Services, for any Procurement Contract for the purchase of goods.

F. Certain goods and/or services may be procured pursuant to Procurement Contracts let by any department, agency, officer, political subdivision or instrumentality of the State (e.g., the New York State Office of General Services ("OGS")) or Federal government (e.g., General Services Administration ("GSA")) or any city or municipality where the White Plains SSM Department, or facility SSM Departments, and the initiating department determine that a reasonable potential exists for cost savings or other benefits to the Authority and have approved the specifications and proposed terms and conditions of such contract.

Certain Procurement Contracts established by the OGS or GSA require that authorized users conduct a "mini-bid" (i.e., an abbreviated supplemental competitive bid procurement process) among prequalified bidders identified in such established contracts. Certain other Procurement Contracts issued by the Authority (e.g., for on-call consulting or contracting services) may also utilize a mini-bid process, typically, in cases of a multiple award, where a contract is awarded to more than one bidder that meets the Authority's

bid requirements, in order to satisfy multiple factors and needs as set forth in the bid document. Such mini-bids shall be conducted by the Authority's SSM staff (or on behalf of the Authority by an Implementation Contractor) where applicable and practicable. Within a said multiple award group, work may be assigned to a specific firm without conducting a mini-bid, under certain circumstances, including but not limited to: where such firm possesses specialized expertise and is uniquely qualified to perform such work; where time constraints, emergency or other critical conditions exist or geographic location is of primary consideration in order to meet schedule requirements, respond to emergent issues or otherwise meet the Authority's needs; or when the work scope is below a specified monetary threshold. The decision to assign work without conducting a mini-bid shall typically be made jointly by SSM and the initiating departments, and shall be documented for the Procurement Record.

G. Solicitations will include a scope of work that defines the goods required and/or the services to be performed; evaluation criteria (as defined in Section 4.B); milestone dates; the Authority's Supplier Diversity Program and SDVOB requirements, if applicable; all other applicable Authority requirements and any special methods or limitations that the Authority chooses to govern the work. Telephone solicitation, usually for procurements valued at less than $50,000, may be used where time constraints do not permit issuance of an RFP, where issuance of an RFP is otherwise impracticable or for goods that are catalog items or do not require a detailed bill of materials or specification. All solicitations made by telephone shall be documented and made part of the Procurement Record.

H. For all Procurement Contracts with a value equal to or greater than $50,000 (except for those contracts noted below), the Authority will, prior to soliciting proposals, submit all required information to the Commissioner of the DED to be included on the New York State *Contract Reporter* website, (www.nyscr.ny.gov) (unless such posting would serve no useful purpose). Such information will be submitted to the DED Commissioner in accordance with the schedule set forth by the DED. The due date for bids or proposals will be a minimum of 15 business days after the date of publication of such notice on the *Contract Reporter* website, except where a shorter period is specifically authorized by law. For Procurement Contracts resulting from a Request for Proposal process, the Authority will submit the results of the bid opening, including the names of firms submitting proposals and the name/s of the awardee/s, for inclusion on the *Contract Reporter* website. For all other Procurement Contracts, the name of the awardee will be submitted.

This section 3.H does not apply to (i) Procurement Contracts awarded on an emergency basis as described below in Section 3.M, (ii) Procurement Contracts being rebid or re-solicited for substantially the same goods and/or services, within 45 business days after the original due date, and/or (iii) Procurement Contracts awarded to not-for-profit human services providers. (See Article 4-C, Economic Development Law)

Certain Procurement Contracts may require purchases: (1) on a spot market; (2) needed prior to the time limits for noticing on the Contract Reporter website or that do not lend themselves to the solicitation process. Such purchases are exempted from the noticing requirements of Article 4-C of the Economic Development Law subject to the approval of the Vice President, SSM, and/or the head of the initiating department that does not

complete its procurements through the SSM Department. From time to time or where appropriate, generic notices may be published on the Contract Reporter website notifying potential bidders of such opportunities and soliciting qualification statements for consideration by the Authority.

Notwithstanding the foregoing, submittal of a notice / announcement of award for inclusion on the *Contract Reporter* website is required for Procurement Contracts with a value of $50,000 or more awarded on a sole source or single source basis, including such discretionary contracts not exceeding $200,000 awarded to Small Business Enterprises or NYS-certified MWBE firms, or for the purchase of goods and/or technology that are recycled or remanufactured, for discretionary awards on a single or sole source basis to SDVOB's, or for the purchase of food, including milk and milk products that are grown, produced or harvested in New York State, and certain other Procurement Contracts exempt from the general advertising requirement for Procurement Contract bidding opportunities, in accordance with the afore-referenced law. Such notice shall specify the name of the awardee.

I. In order to further increase participation of service-disabled veterans in New York State's contracting opportunities, the Service-Disabled Veteran-Owned Business ("SDVOB") Act was signed into law on May 12, 2014. The SDVOB program provides for eligible Veteran business owners to become certified as a New York State Service-Disabled Veteran-Owned Business. The Division of Service-Disabled Veterans' Business Development within the New York State Office of General Services ("OGS") is responsible for certifying eligible SDVOBs, assisting agencies and authorities in complying with the law, and promoting SDVOB participation in the state's procurement activities. Under this program, contracts may be awarded on a non-competitive basis to NYS-certified SDVOBs for discretionary purchases. Alternately, contracts may be competitively bid exclusively among NYS-certified SDVOBs regardless of value, and advertised as such on the *Contract Reporter* website.

J. Proposals for certain Services Contracts may also be solicited by competitive search, as follows:

For contracts where the scope of work cannot be well defined or quantified, or where selection requires evaluation of factors such as breadth and depth of experience in a unique or highly specialized field and suitability as an Authority representative, a "competitive search" will be conducted to determine which consultants are most qualified, for reasonable compensation terms, to perform the work. Depending on market conditions, at least five potential sources should be evaluated; if there are fewer than five sources, all sources should be evaluated. The White Plains SSM Department or the appropriate facility SSM Department will work with the initiating department to gather information from potential sources, that will include a description of the consultant/firm's qualifications, résumés of key personnel, past experience and proposed billing rates.

K. A Procurement Contract may be awarded on a Sole Source, Single Source, or other non-competitive basis where:

1. Compatibility of equipment, accessories or spare or replacement parts is the paramount consideration.

2. Services are required to extend or complement a prior procurement and it is impracticable or uneconomic to have a source other than the original source continue the work.

3. A sole supplier's item is needed for trial use or testing, or a proprietary item is sought for which there is only one source.

4. Other circumstances or work requirements exist that cause only one source to be available to supply the required goods and/or services.

5. The contract is awarded to a Small Business Enterprise or to a NYS-certified MWBE firm for discretionary purchases not exceeding $200,000, pursuant to Section 3.D and as further set forth in Section 2.M

6. The contract is awarded to a NYS-certified SDVOB for a discretionary purchase.

7. The contract is for the discretionary purchase of goods and/or technology that are recycled or remanufactured, in an amount not exceeding $200,000, as further set forth in Section 2.M and subject to the approvals stated in Section 3.D.

8. The contract is for the discretionary purchase of commodities that are food, including milk and milk products, which are grown, produced or harvested in New York State, in an amount not exceeding $200,000, as further set forth in Section 2.M and subject to the approvals stated in Section 3.D.

9. Purchases made on a Sole Source, Single Source, or other non-competitive basis are subject to Public Authorities Law § 2879-a, 2 NYCRR Part 206, entitled "Comptroller Approval of Contracts Made by State Authorities" ("Comptroller Regulations") and the State Authority Contract Manual.

L. Pursuant to Public Authorities Law § 2879-a, the Comptroller Regulations and the State Authority Contract Manual, the Authority may be required to submit certain contracts to the New York State Comptroller for approval that are awarded on a Sole Source, Single Source, or other non-competitive basis for the purchase of goods and/or services in an amount in excess of $1 million, and shall notify the successful bidder therefor. Such contracts or contract amendments shall not be valid and enforceable unless approved by the Comptroller or until 90 days have elapsed from such submission without action by the Comptroller, as further set forth in the referenced law and regulations.

M. Subject to the Authority's Expenditure Authorization Procedures ("EAPs"), and Public Authorities Law § 2879-a, the Comptroller Regulations and the State Authority Contract Manual, a Procurement Contract may be awarded without following the solicitation requirements that ordinarily apply (but using such competitive selection procedures as are practicable under the circumstances) where emergency conditions exist, such as:

1. A threat to the health or safety of the public or Authority employees or workers.

2. Proper functioning of the Authority facilities or construction or operating projects requires adherence to a schedule that does not permit time for an ordinary procurement solicitation.

N. Whenever an initiating department determines that a Procurement Contract should be awarded on a Single Source, Sole Source, or an emergency basis, the department head or other authorized equivalent per the EAPs will provide a written statement explaining the compelling reasons therefor to the White Plains SSM Department or the appropriate facility SSM Department. The award of such Procurement Contracts, regardless of value, requires the written approval of the Vice President, SSM, except as noted in Section 3.H.

O. Every potential Sole Source or Single Source contract with a value of $1 million or more must be approved by the President and CEO or the COO prior to processing by the SSM Department.

P. In furtherance of Public Authorities Law § 2800, when a procurement is made on a non-competitive basis, and the price for goods or services purchased exceeds fair market value, prior to making the purchase, the Business Unit Head of the initiating department shall provide a detailed explanation of the justification for making the purchase and a certification shall be signed by the Chief Executive Officer and Chief Financial Officer of the Authority stating that they have reviewed the terms of such purchase and determined that it complies with applicable law and procurement guidelines. The following definition shall apply: "Fair Market Value" shall mean the estimated dollar amount that a willing buyer would pay to a willing seller for property in an arms-length transaction in the appropriate marketplace and under similar circumstances. Fair market value may be determined by internal appraisals, industry-recognized sources, or other methods of valuation generally accepted in the industry in which such property is utilized, as may be approved by the Vice President, SSM or authorized designee.

Q. It is the policy of New York State to discourage improper communications intended to influence a governmental procurement. The Authority will endeavor to control such practices and will comply with the applicable statutory provisions. In furtherance of the State Finance Law §§ 139-j and 139-k, the following shall apply:

The "Restricted Period" is the period of time commencing with the earliest posting, on the Authority's website, in a newspaper of general circulation, or in the Procurement Opportunities Newsletter (i.e., New York State *Contract Reporter*) in accordance with Article 4-C of the Economic Development Law of written notice, advertisement or solicitation of a request for proposal, invitation for bids, or solicitation of proposals, or any other method provided for by law or regulation for soliciting a response from offerors (i.e., bidders/con- tractors) intending to result in a Procurement Contract with the Authority and ending with the final contract award and approval by the Authority and, where applicable, the State Comptroller. The "Restricted Period" also applies to a "mini-bid" process that may be utilized in certain established OGS, GSA or Authority multiple award contracts, as provided in Section 3.F.

The Authority shall designate a person or persons who may be contacted, with respect to each Authority procurement. The bidders/contractors or persons acting on their behalf, shall only contact the Authority's designated person or persons where a reasonable

person would infer that the communication was intended to influence the procurement during the Restricted Period.

R. In furtherance of the Authority's commitment to ensure transparency and accountability of its operations, every member, officer or employee of the Authority who is contacted by a lobbyist is required to make a contemporaneous record of such contact, pursuant to Public Authorities Law § 2987 and as further set forth in the Authority's Company Policy, Lobbying Contacts CP 9-2, regarding this matter.

S. Project Sunlight (Chapter 399, Part A, Section 4 of the Laws of 2011) requires the Authority to record in a database maintained by the New York State Office of General Services certain appearances between the Authority and individuals, firms or other entities (excluding elected officials and representatives of federal, state and local agencies and authorities) relating to the procurement of a contract, with a value of $25,000 or more, for real property, goods or services. Appearances are defined as an interaction through an in-person meeting or a video conference between covered individuals. Appearances related to emergency procurements and disposal of property through public auctions are excluded, as are appearances that take place during the formal "Restricted Period." Covered individuals at the Authority means an employee who has the power to exercise discretion in procurement matters or advises someone who exercises such discretion. A covered individual outside of the Authority means both "external" (e.g., a lobbyist) and "internal" (e.g., sales representative) representatives of an entity, individuals appearing on behalf of themselves, advocacy groups or organizations or entities representing the interests or concerns of the organization or entity or of its members. All such appearances must be promptly reported to the Authority's Ethics and Compliance Office for recording in the Project Sunlight database.

4. EVALUATION OF PROPOSALS

A. Proposals will be evaluated using a fair and equitable comparison of all aspects of the proposals against the specifics of the solicitation and against each other, including an analysis of each offer that considers: the quality of the goods and/or the competence of the bidder (including, but not limited to, the bidder's skill, judgment and business integrity), the technical merit of the proposal and the price for which the goods and/or services are to be supplied.

In the event the price submitted by the bidder recommended to be awarded a contract exceeds the cost estimated, where a cost estimate is provided on the solicitation at the time of bidding, the initiating department will prepare a written explanation to be reviewed by the White Plains SSM Department and/or the appropriate facility SSM Department and appropriate managers as stipulated in the EAPs. The following options should be considered: (1) rejecting the bids, resoliciting proposals and/or modifying the scope of work; (2) revising the cost estimate and proceeding with the contract award and (3) negotiating with the low bidder(s), as determined by the Vice President, SSM or designee, to reduce the price quoted. Factors to be considered in reaching the proper course of action include but are not limited to: the effects of a delay on both the schedule and the cost of the specific capital construction project or outage at an operating facility, the magnitude of the contract, available bidders, the ability to attract additional competition if the solicitation is reissued, and the accuracy of the original cost estimate.

The recommended course of action and the reasons therefor must be fully documented in a memorandum for consideration by the appropriate level of management prior to approval and placed in the appropriate procurement file.

B. Factors to be considered in evaluating the goods and/or services to be supplied and/or the competence of the bidder are: previous experience (including applicable experience in New York State and evaluations from other clients for whom the bidder has provided goods and/or services); the abilities and experience of the personnel to be assigned to the Authority's work and the ability to provide any needed advanced techniques such as simulation and modeling; and overall, the bidder's skill, judgment and business integrity. The approach proposed in meeting the exact requirements of the scope of work will be given consideration in evaluating the technical merit of the proposal, together with a well-organized task structure, the ability to timely supply the goods and/or perform the proposed services and the ability to meet Supplier Diversity Program goals, if any. The need to purchase the goods from and/or subcontract performance of services to others will be evaluated as to their effects on cost, as well as quality, schedule and overall performance.

Another factor to be considered in evaluating proposals may involve an assessment of the bidder's diversity practices, where applicable. Pursuant to Article 15-A of the Executive Law, diversity practices are the contractor's practices and policies with respect to utilizing NYS-certified MWBEs in contracts as subcontractors and suppliers, and entering into partnerships, joint ventures or other similar arrangements with NYS-certified MWBEs. A contractor's diversity practices may be assessed when: (1) a procurement is awarded on the basis of "Best Value" as described in Section 4.D. (but *not* when a procurement is awarded based upon "lowest price"); (2) the anticipated award is $250,000 or greater; and (3) such assessment is practicable, feasible and appropriate. Such assessment shall not permit the automatic rejection of a bid or Procurement Contract proposal based on lack of adherence to diversity practices.

C. For Services Contracts (as defined in Section 2.C of these Guidelines), the technical merits of the proposals and the experience and capabilities of the bidders will be the primary factors in determining the individual or firm to be awarded the contract, provided that the price for performing such work is reasonable and competitive.

D. For Procurement Contracts for Goods (as defined in Section 2.C of these Guidelines), the award should generally be made to the lowest-priced firm submitting a proposal that meets the commercial and technical requirements of the bid documents. (See also Section 4.F regarding award to "other than low bidder".)

As a best practice and pursuant to State Finance Law § 163, the Authority may award on a "Best Value" basis for awarding contracts to the offeror that optimizes quality, cost and efficiency, among responsive and responsible offerors. Such basis shall reflect, wherever possible, objective and quantifiable analysis and may also identify a quantitative factor for offerors that are Small Businesses or NYS-certified SDVOB or MWBE firms.

E. Pursuant to § 139-k of the State Finance Law, the Authority shall not award a Procurement Contract (as defined in Subsection 3.Q.1 of these Guidelines) to a bidder/contractor who fails to provide timely, accurate and complete responses to inquiries about past

determinations of non-responsibility (unless awarding the contract is necessary to protect public property or public health or safety and the bidder/contractor is the only source capable of supplying the required article of procurement within the necessary timeframe.)

A bidder's/contractor's knowing and willful violation of the Authority's policy providing for certain procurement disclosures shall result in a determination of non-responsibility of such bidder/contractor pursuant to State Finance Law §§ 139-j and 139-k only.

More than one determination of non-responsibility due to violations of State Finance Law § 139-k in a four-year period shall render a bidder/contractor ineligible to submit bids for four years from the second determination of non-responsibility.

F. An award to "other than low bidder" can be made only with the approval of appropriate management as stipulated in the EAPs, and should be based on such a proposal providing a clear advantage to the Authority over the lower-priced proposal. Factors justifying an "other than low bidder" award may include, but are not limited to: improved delivery schedules that will reduce outages; longer warranty periods; improved efficiency over the usable life of the equipment; reduced maintenance costs; the bidders' financial resources or the ability to meet or exceed Supplier Diversity Program and SDVOB goals; and overall, the bidder's skill, judgment and business integrity.

G. The specifications set forth in any solicitation prepared under these Guidelines were based upon information available at the time of the preparation of the solicitation. Thus, the Authority may diverge from the specifications of any solicitation if, after review of the proposals responsive to such solicitation, the Authority deems it prudent in light of its experience, the circumstances of the solicitation and/or potential cost savings.

5. RECOMMENDATION OF AWARD

A. A recommendation for approval of a proposed award of a Procurement Contract is usually prepared in the form of a memorandum or e-mail by the department requiring the goods and/or services. The recommendation must include an evaluation of proposals as specified in Article 4 above, as well as proposed specific compensation terms that provide a clear breakdown of cost factors and methods of calculation, including, as applicable:

1. Lump sum and/or unit prices for equipment and construction work.

2. Hourly or daily rates for personnel.

3. Markups for payroll taxes, fringe benefits, overhead and fees, if the proposal is based on reimbursement of actual payroll costs.

4. Terms for reimbursement of direct out-of-pocket expenses, such as travel and living costs, telephone charges, services of others and computer services.

5. Provisions, if any, for bonus/penalty arrangements based on target person-hours and/or target schedule.

B. The recommendation will also review any substantive exceptions to commercial and technical requirements of a price inquiry, RFP, RFQ or bidding documents, including but

not limited to payment terms, warranties and bond requirements, if any, as well as Supplier Diversity Program requirements, as applicable.

6. AWARD OF CONTRACT

A. Services Contracts (which include contracts for Construction, Personal and Non-personal services, as defined in Section 2.C.) valued or estimated to be $5,000 or greater to be performed for a period of more than 12 months are approved and reviewed annually by the Trustees. Services Contracts for a period of less than 12 months are approved by authorized designees in accordance with existing EAPs. Extending a contract for services with an initial duration of less than 12 months beyond 12 months will be approved by the Trustees at the request of the initiating department and will be reviewed by the Trustees annually. Extending a contract for services, that has previously been approved by the Trustees, for a cumulative term of more than 12 months requires further Trustees' approval.

B. Extending a contract, previously approved by the Trustees, for 12 months or less ("grace period") requires approval by the Vice President of the requesting department or other authorized equivalent or designee in accordance with existing EAPs and concurrence by the Vice President, SSM.

C. For Services Contracts valued or estimated to be $5,000 or greater to be performed for a period of more than 12 months that must be awarded prior to the next quarterly Trustees' meeting, the initial contract will be issued for the entire intended term of the contract. Based on its total term and value, such contract must be approved in writing by the appropriate management as set forth in the EAPs. Such contract is subject to the Trustees' approval, at the next quarterly Trustees' meeting. If such approval is not granted, the contract will be terminated immediately.

D. A contract or contract task valued or estimated to be $5,000 or greater is deemed to be for services in excess of 12 months where the contract does not specify a definite term and the work will not be completed within 12 months, and any "continuing services" contract with no fixed term that provides for the periodic assignment of specific tasks or particular requests for services. This includes Trustee-approved contracts for architect/ engineering services with the original engineers of operating facilities, as well as the original supplier of steam supply systems or boilers and turbine generating equipment. Each task authorized under such contracts (which may be referred to as a "Change Order," "Purchase Order" or "Task Number") is considered a separate commitment and must be separately approved in accordance with the EAPs.

E. The term of a Personal Services contract is limited to a maximum of five (5) years, including any extensions.

F. Multiyear contracts for Goods (which include equipment, materials and supplies, as defined in Section 2.D) valued or estimated to be $5,000 or greater are subject to the management approval thresholds established in the EAPs, and require Trustee approval only once those thresholds are met.

G. When time constraints or emergency conditions require extending an existing contract with an initial duration of less than a year beyond a year, and the cumulative monetary

change order value does not exceed the appropriate limit set forth in the EAPs, the Business Unit Head, with the prior concurrence of the Vice President, SSM or equivalent(s) or designee, may authorize extending such contract, subject to the Trustees ratifying such action as soon as practicable.

H. When the total estimated contract value or the value of the extension exceeds the monetary limits set forth in the EAPs, interim approval by the President and Chief Executive Officer or Chief Operating Officer or equivalent(s) or designee is required, subject to the Trustees ratifying such action as soon as practicable.

I. When time constraints or emergency conditions require immediate commencement of services to be performed for a period of more than one year, and when the contract value exceeds the monetary approval limit for the President and Chief Executive Officer or Chief Operating Officer or equivalent(s), as set forth in the EAPs, the President and Chief Executive Officer or Chief Operating Officer or equivalent(s) or designee, with the prior concurrence of the Vice President, SSM or equivalent(s) or designee, may authorize in writing the commencement of such services. The initial compensation limitation may not exceed the authorization level for the President and Chief Executive Officer or equivalent(s) or Chief Operating Officer or equivalent(s) as set forth in the EAPs. Such contracts will be subject to the Trustees' approval, which will be solicited at their next scheduled Trustee meeting.

J. The White Plains SSM Department or the facilities' SSM Departments prepare the contract for execution by the Authority and the successful bidder. No work by the selected contractor will commence until the contract is executed by both parties, except that mutually signed letters of award or intent may initiate work prior to formal execution. Authority signatories of such letters must be authorized to approve contract awards pursuant to the EAPs.

K. Pursuant to Public Authorities Law § 2879, the Authority shall notify the Commissioner of Economic Development of the award of any Procurement Contract for the purchase of goods and/or services from a Foreign Business Enterprise (as defined in Subsection 3.E.3 of these Guidelines) in an amount equal to or greater than $1 million simultaneously with notifying the successful bidder therefor. The Authority shall not enter into the Procurement Contract for said goods and/or services until at least 15 days have elapsed from the notification of the award, except for a Procurement Contract awarded on an emergency or critical basis. The notification to the Commissioner shall include the name, address, telephone and facsimile number of the Foreign Business Enterprise, the amount of the proposed Procurement Contract and the name of the individual at the Foreign Business Enterprise or acting on behalf of same who is principally responsible for the proposed Procurement Contract.

7. CONTRACT PROVISIONS

A. The following standard forms of contracts are available from the White Plains SSM Department: purchase order format (for standard procurements of goods and/or services); furnish-and-deliver format (for major equipment purchases); long form agreements (for consulting services) and maintenance agreement formats; contract work orders (for construction work of small magnitude); construction contracts (for major

construction work) and furnish, deliver and install contracts (for specialized, major procurements where single responsibility is required for procurement and installation). These contract forms are intended to govern the purchase of goods and/or performance of services.

Authority departments proposing to initiate a Procurement Contract should review these forms to suggest any modifications and additions that may be required for the particular goods and/or services. Under no circumstances should contract forms be shown to proposed bidders without the prior approval of the SSM Department, which, along with the facilities' SSM Departments, is solely responsible for requesting proposals.

B. The following types of provisions setting forth contractor responsibilities are to be contained in the standard forms of Procurement Contracts, except that any provisions listed below that are inapplicable or unnecessary because of the nature or duration of the work to be performed, the location(s) where the work is to be performed or the type of compensation being paid therefor, need not be included. Other provisions may be added as necessary and appropriate.

1. Schedule of Services or Specifications
2. Time of Completion
3. Compensation or Itemized Proposals
4. Relationship of Parties
5. Delays
6. Termination
7. Changes in the Work
8. Claims and Disputes
9. Warranty
10. Insurance
11. Records, Accounts, Inspection and Audit
12. Assignment
13. Notices
14. Indemnification
15. Governing Law
16. Proprietary Nature of Work
17. Testimony
18. MWBE requirements
19. SDVOB requirements
20. Entire Agreement

<u>Contract Attachments</u>

1. Compensation Schedule
2. Schedule of Services or Specifications
3. Appendix "A" (Miscellaneous Statutory Provisions)
4. Appendix "B" (Prompt Payment Provisions)
5. Appendix "C" (Minority- and Women-owned Business Enterprise (MWBE) Participation Goal Requirement)
6. Appendix "D" (Background Security Screening for Authority Contractors)
7. Appendix "E" (Omnibus Procurement Act of 1992 Requirements)

8. Appendix “F” (Computer Aided Design Requirements For New York Power Authority Drawings)
9. Appendix “G” (Equal Employment Opportunities Requirements)
10. Appendix “H” (Tax Law Requirements)
11. Appendix “I” (New York Power Authority (NYPA) North American Electric Reliability Corporation Critical Infrastructure Protection (NERC CIP) Cyber Access And/Or Unescorted Physical Access Training Requirements)
12. Appendix “J” (Bidder/Contractor Compliance with State Finance Law §§ 139-j and 139-k Providing for Certain Procurement Disclosures)
13. Appendix “K” (Additional State and Federal Provisions Required for American Recovery and Reinvestment Act (Pub. L. No. 111-5 Stat. 2009) (“ARRA”) Funded Projects) - inactive
14. Appendix “L” (DOE Federal Contract Provisions) - inactive
15. Appendix “M” (Use of Ultra Low Sulfur Diesel Fuel and Best Available Retrofit Technology (“BART”) for Heavy Duty Vehicles)
16. Appendix “N” (The New York State Iran Divestment Act of 2012 – Iranian Energy Sector Divestment)
17. Appendix “O” (Encouraging Use of New York State Businesses in Contract Performance) – inactive
18. Appendix “P” (Information Security Requirements for Vendors and External Partners)

C. If a vendor (firm, person or other entity) participates in the development or writing of the specifications for a procurement solicitation, such vendor shall not be permitted to bid on such procurement, either as a prime vendor or as a subcontractor at any level. Contracts for evaluation of offers for products or services shall not be awarded to a vendor that would then evaluate its own offers for products or services.

Furthermore, any firm, person or other entity retained by the Authority to provide conceptual studies, designs or specifications is prohibited from being awarded future phases of work, including implementation, related to the original work.

The above restrictions shall not apply where:

1. The vendor is the sole source or single source of the product or service;

2. More than one vendor has been involved in preparing the specifications for a procurement proposal;

3. There is no qualified response to the solicitation for future phases of work, including implementation; or

4. The originating Authority Business Unit determines in writing that the restrictions are not in the best interests of the Authority. Such originating Business Unit shall obtain the approval of the applicable Business Unit Head or equivalent(s), Vice President, SSM or equivalent(s) or designee, Assistant General Counsel or equivalent(s) and President and Chief Executive Officer or designee or Chief Operating Officer or equivalent(s) to waive this restriction on a case-by-case basis.

8. CHANGE ORDERS

A. Change Orders to existing contracts are justified in the following cases:

1. To incorporate additional work related to the original scope, to delete work or to otherwise modify the original work scope;

2. To exercise options previously included in the original contract to perform additional work or to extend the contract term;

3. To accommodate emergency conditions, defined in Section 3.M herein, that require the immediate performance of work by a firm already under contract;

4. When rebidding would not be practical or in the best interests of the Authority's customers; and

5. To meet the Authority's Supplier Diversity and SDVOB Program goals in accordance with Executive Law Articles 15-A and 17-B, respectively.

B. All Change Orders must be approved in accordance with the Authority's EAPs, and should include specific schedules for completion of work at the earliest possible time.

C. Pursuant to Public Authorities Law § 2879-a, the Comptroller Regulations and the State Authority Contract Manual, the Authority may be required to submit certain Change Orders to the New York State Comptroller for filing or approval where the aggregate value of the contract as amended is in excess of $1 million and the original contract was awarded on the basis of a competitive procurement, but the modification was neither contemplated nor provided for in the solicitation for such competitive procurement.

9. CONTRACTING DECISIONS INVOLVING CURRENT OR FORMER EMPLOYEES

A. Former Authority officers and employees may be eligible to be considered for direct engagement as contractors and/or consultants provided that they meet all criteria for contractors and/or consultants generally as specified in these Guidelines; their engagement is not barred by New York Public Officers Law § 73(8); they obtain an opinion by the New York State Joint Commission on Public Ethics that such engagement is permissible; and upon approval of the President and Chief Executive Officer, as well as the Chairman of the Board of Trustees.

B. Pursuant to the provisions of New York Public Officers Law § 73(8):

1. No Authority officer or employee is eligible, within a period of two years after the termination of Authority service to appear or practice before the Authority or receive compensation for any services rendered on behalf of any person, firm, corporation or association, in relation to any case, proceeding or application or other matter before the Authority.

2. No Authority officer or employee is eligible, at any time after the termination of Authority service, to appear, practice, communicate or otherwise render services before the Authority or any other state agency or receive compensation for any such services rendered on behalf of any person, firm, corporation or other entity

in relation to any case, proceeding, application or transaction that such person was directly concerned with and personally participated in during his or her period of service, or which was under his or her active consideration.

3. Pursuant to the provisions of New York Public Officers Law § 73(8-b), notwithstanding the provisions of 1. and 2. above, a former Authority officer or employee may contract individually, or as a member or employee of a firm, corporation or association, to render services to the Authority, if, prior to engaging in such service, the Chairman of the Board of Trustees certifies in writing to the New York State Joint Commission on Public Ethics that such former officer or employee has expertise, knowledge or experience with respect to a particular matter which meets the Authority's needs and is otherwise unavailable at a comparable cost. Where approval of the contract is required under § 112 of the New York State Finance Law, the Comptroller shall review and consider the reasons for such certification. The New York State Joint Commission on Public Ethics must review and approve all such certifications.

C. No Authority employee who is involved in the award of Authority grants or contracts may ask any officer, director or employee of such current or prospective contractor or grantee to reveal: (a) the political party affiliation of the individual; (b) whether the individual or entity has made campaign contributions to any political party, elected official or candidate for elective office or (c) whether the individual voted for or against any political party, elected official or candidate for elective office.

D. No Authority employee may award or decline to award any grant or contract, or recommend, promise or threaten to do so because of a current or prospective grantee's or contractor's: (a) refusal to answer any inquiry prohibited by Section 9.C above or (b) giving or withholding or neglecting to make any contribution of money, service or any other valuable thing for any political purpose.

E. No Authority employee may take part in any contracting process or decision: (i) to a Relative; or (ii) to any entity in which the Authority employee or a Relative of such Authority employee owns or controls 10% or more of the stock of such entity (or 1% in the case of a corporation whose stock is regularly traded on an established securities exchange); or serves as an officer, director or partner of that entity. If a contracting matter arises relating to this Section 9.E, then the employee must advise in writing his or her supervisor and the Office of Ethics and Compliance of the relationship, and must be recused from any and all discussions or decisions relating to the matter.

1. For purposes of this Section 9.E, the term "Relative" is defined in Definitions, Section 2.G of these Guidelines.

10. SUPPLIER DIVERSITY PROGRAM REQUIREMENTS

The Authority strives to continue to foster the development of business opportunities on Authority contracts for MWBEs. Article 15-A of the Executive Law established the NYS Office (now Division) of Minority and Women's Business Development ("DMWBD") that is responsible for developing rules and regulations for implementation of this statute, certifying MWBEs and reviewing and monitoring goal plans, compliance reports and contract provisions to be included in all non-construction contracts for more than $25,000 and construction contracts for more

than $100,000. The definition of an MWBE is included in Section 2.H of these Guidelines. The Authority aims to solicit proposals from NYS-certified MWBEs that are qualified to perform the required work. In addition, specific goals may be included in certain contracts for consulting work, construction and procurement of goods and other services requiring the contractor/vendor to subcontract a portion of the work to NYS-certified MWBEs as required by law. Bidders' proposals will include a completed preliminary Utilization Plan Form for MWBEs, as well as applicable EEO and Diversity Practices Forms, where required. Such bidders' failure to meet these requirements may be grounds for rejection of the proposal, or cancellation of the contract if a contractor did not make a good faith effort to meet its goals after contract award. Final MWBE Utilization Plans for Construction contracts valued at more than $100,000 shall be provided and posted on the Authority's procurement website by the successful vendor within ten business days of contract signing.

Pursuant to § 2879 of the Public Authorities Law and as further set forth in the Authority's Supplier Diversity Program documents, the following guidelines apply:

1. Identify those areas or types of contracts for which MWBEs may best bid so as to promote and assist participation by such enterprises and facilitate a fair share of the awarding of contracts to such enterprises.

2. Provide notice, in addition to any other notice of procurement opportunities required by law, to professional and other organizations that serve MWBEs providing the types of services procured by the Authority.

3. Maintain lists of qualified NYS-certified MWBEs, including professional firms that have expressed an interest in doing business with the Authority and ensuring that such lists are updated regularly. The Authority shall also consult the lists of NYS-certified MWBEs maintained by the DED pursuant to Executive Law Article 15-A.

4. Establish appropriate goals for participation by MWBEs in Procurement Contracts awarded by the Authority and for the utilization of MWBEs as subcontractors and suppliers by entities having Procurement Contracts with the Authority. Statewide numerical participation target goals shall be established by the Authority based on the criteria set forth in Public Authorities Law § 2879.

5. Conduct procurements in a manner that will enable the Authority to achieve the maximum feasible portion of the goals established pursuant to Subdivision 4 of this Section and that eliminates barriers to participation by MWBEs in the Authority's procurements.

6. Designate one or more senior staff of the Authority to oversee the Authority's programs established to promote and assist participation by and utilization of NYS-certified MWBEs.

11. SERVICE-DISABLED VETERAN-OWNED BUSINESS ("SDVOB") PROGRAM REQUIREMENTS

The Authority also strives to foster the development of business opportunities for NYS-certified SDVOBs and to further increase participation by SDVOBs in Authority contracts, as set forth in Sections 2.L and 3.I of these Guidelines and pursuant to Article 17-B of the Executive Law. One tool is the use of SDVOB discretionary purchasing, as further described in Sections 3.D, I and K of

these Guidelines. Another tool authorized by the law is the use of set-asides, which permit the reservation in whole or in part of certain procurements by state agencies and authorities when more than one NYS-certified SDVOB is available and can provide the necessary goods or services to meet the Authority's form, function and utility. The same dollar limits apply to SDVOB contracts as those set forth for MWBEs in Article 10 of these Guidelines.

Pursuant to Article 17-B of the Executive Law, the following guidelines apply:

1. Identify contracts where SDVOBs may best perform and/or where SDVOB goals are practical, feasible and appropriate for the purpose of increasing the utilization of SDVOB participation on Authority contracts.

2. Submit regular reports with respect to SDVOB Program activity, including but not limited to, utilization reporting and contract monitoring and compliance.

3. Achieve an overall goal of six percent for SDVOB participation on Authority contracts.

12. DISADVANTAGED BUSINESS ENTERPRISE ("DBE") PROGRAM REQUIREMENTS ON PROJECTS THAT ARE FEDERALLY FUNDED

The Authority strives to foster the development of business opportunities for NYS certified DBEs and to further increase their participation in NYPA Federally funded contracts. The Authority aims to solicit proposals from DBEs for procurements that will be partially or fully federally funded. The Authority follows the DBE guidelines as set out by The Federal Department of Transportation ("DOT"). NYS DOT is tasked with certifying eligible small businesses as DBEs in New York State.

The Authority is committed to promoting participation of DBEs in NYPA contracting opportunities in accordance with federal law and regulations and seeks to achieve the following objectives:

1. To ensure nondiscrimination in the award and administration of Federally funded contracts;
2. To create a level playing field on which DBEs can compete fairly for Federally funded contracts;
3. To ensure that the Authority's DBE program is narrowly tailored in accordance with applicable law;
4. To ensure that only firms that fully meet this Federal eligibility standards are permitted to participate as DBEs;
5. To help remove barriers to the participation of DBEs in Federally funded contracts;
6. To promote the use of DBEs in all types of federally-assisted contracts and procurement activities.
7. To assist the development of firms that can compete successfully in the marketplace outside the DBE program; and
8. To provide appropriate flexibility to recipients of Federal financial assistance in establishing and providing opportunities for DBEs.

13. PROCUREMENT RECORD AND REPORTING

A. Procurement Record

The White Plains SSM Department maintains records of Procurement Contracts. In addition to bid- and contract award-related documents for the goods provided and/or services performed, the Procurement Record includes, but is not limited to, documentation of the decisions made and the approach taken in the procurement process. Such records are transmitted to the Digital Warehouse for electronic storage and retrieval. At the facilities, such records are currently maintained and stored by the facilities' SSM Departments.

B. Procurement Report

After the end of each calendar year, the Vice President, SSM or equivalent(s) will prepare and submit an annual report to the Trustees for their approval that will include:

1. A copy of the Guidelines;
2. An explanation of the Guidelines and any amendments thereto since the last annual report;
3. A list of all Procurement Contracts entered into since the last annual report, including all contracts entered into with New York State Business Enterprises and the subject matter and value thereof and all contracts entered into with Foreign Business Enterprises and the subject matter and value thereof;
4. A list of fees, commissions or other charges paid;
5. A description of work performed, the contract number, the date of the contract and its duration, the name, address and NYS-certified MWBE designation of the awardees, the total amount of the contract, the amount spent on the contract during the reporting period and for the term of the contract to date and the status of open Procurement Contracts during the report year;
6. The type of contract (equipment, services, personal services or construction);
7. The method of awarding the contract (e.g., competitive bidding, Sole Source, Single Source or competitive search);
8. The reasons why any procurements with a value equal to or greater than $50,000 were not noticed in the Contract Reporter;
9. The number of bids received and
10. All referrals made and all penalties imposed, if any, pursuant to § 316 of the Executive Law.

C. Such annual report, as approved by the Trustees, shall be submitted to the New York State Division of the Budget within 90 days of the end of such calendar year, and copies thereof shall be distributed to the New York State Department of Audit and Control, the DED, the New York State Senate Finance Committee, and the New York State Assembly Ways and

Means Committee and any other entity as may be required by law. The annual procurement report is posted on the Authority's website and copies shall be made available to the public upon reasonable written request therefor.

D. State Finance Law §§ 139-j and 139-k

1. A statement describing the basis for a determination of a bidder's/contractor's non-responsibility (per State Finance Law §§ 139-j and 139-k only) and the Authority's decision not to award a bidder/contractor the Procurement Contract must be included in the Procurement Record.

2. The Authority shall notify the New York State Office of General Services of bidders/contractors who have been determined to be non-responsible bidders (per State Finance Law §§ 139-j and 139-k only) or debarred due to violations of § 139-j of the State Finance Law.

3. All forms entitled "Record of Contact" shall be included in the respective Procurement Record.

4. A statement describing the basis for a termination of a Procurement Contract for providing an intentionally false certification must be included in the Procurement Record.

E. The Authority may be called upon periodically to submit information regarding the procurement of goods and/or services to organizations implementing the PAAA or other statutes regulating the procurement of goods and services, such as the Authorities Budget Office through the Public Authorities Reporting Information System ("PARIS").

F. The Vice President, SSM or equivalent(s) will also prepare Annual Goal Plans for the MWBE and SDVOB programs and will submit them by January 15 of each year to Empire State Development - Division of Minority and Women Business Development and the New York State Office of General Services - Division of Service-Disabled Veterans' Business Development, respectively. Quarterly Utilization / Activity Reports for each program will also be prepared and submitted to the aforementioned respective state entities by the 15th day of July, October, January and April.

14. THIRD PARTY RIGHTS: VALIDITY OF CONTRACTS

A. These Guidelines are intended for the guidance of officers and employees of the Authority only. Nothing contained herein is intended, nor should it be construed, to confer on any person, firm or corporation any right, remedy, claim or benefit under, or by reason of, any requirement or provision hereof.

B. Nothing contained in these Guidelines alters or affects the validity of, modifies the terms of or impairs any contract or agreement entered into in violation of these Guidelines.

Exhibit A-3
March 26, 2019

2018 Annual Report of Procurement Contracts









NEW YORK STATE OF OPPORTUNITY.

NY Power Authority | Canal Corporation

Cover – Highlights of 2018 contracts, clockwise from top left:

- Advanced Grid Innovation Laboratory for Energy in White Plains
- Plattsburgh to Vermont 20 (PV-20) line installation across Lake Champlain
- Power restoration after Hurricane Maria in Puerto Rico
- Erie Canal lock in Lockport

2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS

FIELD EXPLANATION GUIDE

ARRANGEMENT: Listed by the generating facility. Abbreviations are Headquarters White Plains Office (WPO), Blenheim Gilboa Power Project (BG), Clark Energy Center (CEC), Niagara Power Project (NIA), South Eastern New York including POLETTI, FLYNN, 500MW and Small Clean Power Plants (SENY), St. Lawrence/FDR Power Plant (STL), NYS Canal Corporation (CANALS), Fossil Fuels, Corporate Finance. Within each site, listed in ascending order by CONTRACT NUMBER.

SCOPE: All procurement contracts (for goods or services) with a value of $5,000 or greater that were open, completed or awarded in 2018, including contracts that were extended into 2019 or beyond.

FIELD NAMES

TYPE: COMMITMENT TYPE, Indicating the major category of goods or kind of services provided. Architectural & Engineering Services, Construction, Equipment, IT Hardware, IT Software, Legal Services, Maintenance/Outage, Personal Services, IT Consulting/Development, Other Services, Telecomm, Contingent Workforce. {A,C, E, H, I, L, M, P, R, S, T, W}

MOA: METHOD OF AWARD, Indicating the basis of vendor selection. Competitive Bid (B), Competitive Search (C),Discretionary Spend SBE/MWBE/SDVOB (M), Sole Source (1), Single Source (2). {B,C,M,1,2}

RNA: REASON NOT ADVERTISED, Indicating the reason a notice was not published in the Contract Reporter. {1-9}

OPA: OMNIBUS PROCUREMENT ACT, Indicating where the goods were substantially manufactured or assembled or where the services were substantially performed; New York or Foreign to New York. {N,F}

SD: SUPPLIER DIVERSITY INDICATOR, Small Business Enterprise (SBE) (01), Service Disabled Veteran Owned Business (SDVOB) (02) NY Certified Women Owned Business Enterprise (WBE) (03), NYS Certified Minority Owned Business Enterprise (MBE) (04), Minority Women Owned Business Enterprise (MWBE) (07), Disadvantaged Business Enterprise (DBE) (08), DBE & WBE (09), DBE & MBE (10) {01-04,07-10}

BIDS: NUMBER OF BIDS, Indicating the number of bids received for contracts awarded after January 1, 2007. Such information is not included for contracts awarded prior to that date.

FREIGHT: Contract value adjusted to include actual freight charges.

TOTAL CONTRACT AMOUNT: Total value of the commitment as of December 31, 2018, reported from the SAP system. NOTE: Additional funding may be authorized via issuance of a Change Order in accordance with the Authority's Expenditure Authorization Procedures.

TOTAL AMOUNT EXPENDED TO DATE: Total amount expended through December 31, 2018 as reported from SAP system.

AMOUNT EXPENDED IN 2018: Total amount expended during the report year, January 1, 2018 through December 31, 2018, as reported by SAP system.

DATE OF CONTRACT: Date on which the original commitment was effective (which may differ from Issue Date of formal contract or "Create Date" in SAP system).

O/C: OPEN / COMPLETED, Status of the contract as of December 31, 2018. Completion date indicates that goods have been received or services were completed in full.

THIS DOES NOT NECESSARILY reflect that the final payment has been made.

**Contract re-opened in 2018.

PROJECTED COMPLETION DATE: Open commitments, date of which goods are scheduled to be received or the date on which the scope of the contract is scheduled to be physically completed.

DATE CONTRACT COMPLETED: Completed commitments, the date of actual physical completion, when goods were delivered or services completed in full; this DOES NOT NECESSARILY reflect that the final payment has been made.

2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS

TABLE FOR PROCUREMENT CONTRACT SUMMARY SCREENS

COMMITMENT TYPE

A = ARCHITECTURAL & ENGINEERING SERVICES
C = CONSTRUCTION
E = EQUIPMENT/COMMODITIES
H = IT HARDWARE
I = IT SOFTWARE
L = LEGAL SERVICES
M = MAINTENANCE / OUTAGE
P = PERSONAL SERVICES
R = IT CONSULTING / DEVELOPMENT
S = OTHER (NON-PERSONAL) SERVICES
T = TELECOMM
W = CONTINGENT WORKFORCE

METHOD OF AWARD

B = COMPETITIVE BID

C = COMPETITIVE SEARCH

M = MINORITY AND WOMEN-OWNED BUSINESS ENTERPRISE / SMALL BUSINESS ENTERPRISE VALUE < $200,000 / SERVICE-DISABLED VETERAN-OWNED BUSINESS

1 = SOLE SOURCE

2 = SINGLE SOURCE

REASON NOT ADVERTISED

1 = EMERGENCY OR CRITICAL BASIS

2 = RE-BID/RE-SOLICITED FOR THE SAME GOODS/SERVICE WITHIN 45 BUSINESS DAYS AFTER ORIGINAL BIDS WERE DUE

3 = NOT-FOR-PROFIT PROVIDER OF HUMAN SERVICES

4 = CHARITABLE NON-PROFIT AGENCY WHICH DISTRIBUTES PRODUCTS PRODUCED BY THE BLIND OR SEVERELY HANDICAPPED OR IN CONNECTION WITH SPECIAL EMPLOYMENT PROGRAMS OF THE OFFICE OF MENTAL HEALTH

5 = ORIGINAL AWARD LESS THAN $50,000

6 = ORIGINAL ESTIMATE LESS THAN $50,000

7 = AWARDED UNDER STATE (OGS) OR FEDERAL (GSA) CONTRACT (PIGGYBACK)

8 = NOTICED IN CONTRACT REPORTER

9 = NOT APPLICABLE - NON-PROCUREMENT, MEMBERSHIP, LAND PURCHASES, USE OF PIPELINE, ETC.

OPA : OMNIBUS PROCUREMENT ACT

ENTERED INTO THE SAP SYSTEM (CONTRACT DATA SCREEN): “NYSBE or FBE”

N = GOODS WERE SUBSTANTIALLY PRODUCED OR SERVICES SUBSTANTIALLY PERFORMED IN NEW YORK STATE EXCEPT FOR CONSTRUCTION CONTRACTS

F = GOODS WERE SUBSTANTIALLY PRODUCED OR SERVICES SUBSTANTIALLY PERFORMED OUTSIDE NEW YORK STATE (FOREIGN)

MWBE: MINORITY- AND WOMEN-OWNED BUSINESS ENTERPRISE

01 = NEW YORK STATE SMALL BUSINESS ENTERPRISE (SBE)

02 = NEW YORK STATE-CERTIFIED SERVICE-DISABLED VETERAN-OWNED BUSINESS (SDVOB)

03 = NEW YORK STATE-CERTIFIED WOMEN-OWNED BUSINESS ENTERPRISE (WBE)

04 = NEW YORK STATE-CERTIFIED MINORITY-OWNED BUSINESS ENTERPRISE (MBE)

07 = NEW YORK STATE CERTIFIED MINORITY WOMEN OWNED BUSINESS ENTERPRISE (MWBE)

08 = DISADVANTAGED BUSINESS ENTERPRISE (DBE)

09 = DISADVANTAGED BUSINESS ENTERPRISE & CERTIFIED WOMEN OWNED BUSINESS (DBA WBE)

10=DISADVANTAGED BUSINESS ENTERPRISE & CERTIFIED MINORITY OWNED BUSINESS (DBA MBE)

N = NON NEW YORK STATE CERTIFIED MINORITY OR WOMEN OWNED BUSINESS ENTERPRISE

FREIGHT

* Contract value adjusted to include actual freight charges.

POWER AUTHORITY OF THE STATE OF NEW YORK
2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS
REQUIRED BY N.Y. PUBLIC AUTHORITIES LAW, SECTION 2879

CONTRACT NUMBER	PROVIDER NAME	CONTRACT DESCRIPTION	TYPE	MOA	RNA	OPA	MWBE	BIDS	FRT	TOTAL CONTRACT AMOUNT	TOTAL EXPENDED TO DATE	AMOUNT EXPENDED 2018	CONTRACT BALANCE	DATE OF CONTRACT	O \ C	PROJ COMPLETE DATE	DATE CONTRACT COMPLETE
4500133069	NAES CORP 13 READS WAY STE 100 NEW CASTLE, DE 19720-1609 US	O & M SERVICES FOR DEP/CITY PLANTS	S	B		F	N	1		24,897,448	23,109,119	1,455,037	1,788,329	11/29/2006	C		6/30/2018
4500212248	EATON CORP 6780 NORTHERN BLVD - STE 500 EAST SYRACUSE, NY 13057-8724 US	LPGP - LEM UNIT CIRCUIT BREAKERS	E	B		N	N	3		2,258,329	2,192,146	115,743	66,183	1/10/2012	O	12/31/2020	
4500215367	THE TELX GROUP INC 1 STATE ST - 21ST FL NEW YORK, NY 10004-1561 US	PROVISION OF DISASTER RECOVERY CO-LOCATION SERVICES	E	B		N	N	3		1,638,729	1,465,777	317,125	172,952	6/1/2012	O	5/31/2019	
4500227528	RDG + PARTNERS CPAS PPLC 69B MONROE AVE PITTSFORD, NY 14534 US	AUDIT OF NYPA'S DEFERRED COMPENSATION PLAN	P	B		N	N	3		50,000	41,155	0	8,845	2/23/2013	C		2/22/2018
4500227901	TIME WARNER CABLE INC 20 CENTURY HILL DR LATHAM, NY 12110-2116 US	WIDE AREA NETWORK BACKBONE	S	B		F	N	2		8,951,118	6,712,268	1,168,923	2,238,850	1/1/2013	O	12/31/2019	
4500228543	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	GENERATOR STEP UP (GSU) TRANSFORMERS PROJECT AT THE ST. LAWRENCE POWER PROJECT	C	B		F	N	8		30,229,573	30,204,197	103,560	25,376	1/23/2013	C		1/22/2018
4500232193	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	PROVIDE PART 12 DAM SAFETY INSPECTION	P	B		N	N	5		613,198	263,303	25,102	349,895	5/28/2013	C		5/27/2018
4500233517	HITACHI HVB INC 7250 MCGINNIS FERRY RD SUWANEE, GA 30024-1245 US	FURNISH AND DELIVER 115KV AND 230KV CIRCUIT BREAKERS	E	B		F	N	3		3,172,661	2,038,443	10,010	1,134,218	7/23/2013	O	7/22/2019	
4500233945	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	765KV ASEA REACTORS REFURBISHMENT - STL	C	B		F	N	3		12,272,039	12,272,039	976,907	0	7/11/2013	C		12/31/2018
4500234265	MICHAEL C FINA CO PO BOX 36208 NEWARK, NJ 07188-6208 US	SERVICE AWARDS	E	B	8	N	N	2		150,000	112,920	29,758	37,080	7/19/2013	C		7/18/2018
4500234407	PURPLE GENIE INC 415 MADISON AVE - FL 15 NEW YORK, NY 10017-1111 US	EXTERNAL HOSTING SOLUTION	S	B		F	03	4		768,667	228,966	0	539,701	8/1/2013	C		7/31/2018
4500234862	BRISTOL HARBOR GROUP INC 99 POPPASQUASH RD UNIT H BRISTOL, RI 02809-1018 US	ENGINEERING, DESIGN AND FABRICATION SUPPORT SERVICES FOR TWO NEW TUG VESSELS - NIA	A	B		F	N	3		402,194	341,554	23,000	60,640	8/5/2013	C		9/30/2018
4500235484	HEWLETT PACKARD FINANCIAL SERVICES 200 CONNELL DR - STE 5000 BERKELEY HEIGHTS, NJ 07922-2816 US	XEROX D95 COPIER	H	B	7	N	N	1		45,000	44,250	6,000	750	8/26/2013	C		8/31/2018
4500238151	GIBSON DUNN & CRUTCHER LLP 333 S GRAND AVE LOS ANGELES, CA 90071-3197 US	LEGAL WORK	L	C		F	N	3		2,000,000	976,096	0	1,023,904	10/1/2013	C		8/3/2018
4500240419	UNDERGROUND SYSTEMS INC 3A TROWBRIDGE DR BETHEL, CT 06801-2858 US	LEAK DETECTION SERVICES, Y49 AND Q35	S	B		F	N	1		1,582,900	1,182,086	306,028	400,814	1/1/2014	O	11/30/2019	
4500241069	NYC DCAS MANHATTAN MUNICIPAL BLDG 1 CENTRE ST NEW YORK, NY 10007 US	GREEN FLEET SOFTWARE LICENSE	E	1	9	N	N	1		68,340	13,294	0	55,046	1/22/2014	O	1/21/2019	
4500242542	ROSS & BARUZZINI INC 110 WILLIAM ST FL 29 NEW YORK, NY 10038-3901 US	500MW COMBINED CYCLE POWER PLANT CONTROL ROOM REDESIGN	A	B		N	N	2		534,757	524,235	6,809	10,522	2/28/2014	O	1/30/2019	

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4500242730	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	RMNPP GENERATOR STATOR LIFTING BEAM	E	B		N	01	5		421,160	421,160	10,250	0	3/5/2014	C		6/29/2018
4500243325	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	115KV GSU NIAGARA	E	B		F	N	13		2,428,627	2,398,627	0	30,000	3/20/2014	O	6/30/2019	
4500245932	TRC ENVIRONMENTAL CORP 21 GRIFFIN RD N WINDSOR, CT 06095-1512 US	RATA AUDIT FOR SENY PLANTS	P	B		F	N	2		663,500	487,600	93,700	175,900	5/30/2014	C		5/31/2018
4500247486	A-1 FIRST CLASS VIKING MOVING & STORAGE INC 156 HINSDALE ST BROOKLYN, NY 11207-3302 US	RELOCATION SERVICES	S	B	8	N	N	5		275,000	80,698	0	194,302	7/1/2014	O	6/30/2019	
4500249270	MANATT PHELPS & PHILLIPS LLP 7 TIMES SQ - FL 22 NEW YORK, NY 10036-6551 US	LEGAL SERVICES	L	2	8	F	N	1		250,000	24,442	0	225,558	4/1/2014	O	3/31/2019	
4500249908	KPMG LLP STE 200 515 BROADWAY - 4TH FL ALBANY, NY 12207-2930 US	ACCOUNTING SERVICES	P	B		N	N	1		12,516,320	11,026,246	1,185,305	1,490,074	9/16/2014	O	9/15/2019	
4500251143	JOHNSON CONTROLS INC 130 JOHN MUIR DR - STE 100 AMHERST, NY 14228-1139 US	STL: SAFETY SYSTEM UPGRADE	C	B		N	N	2		5,882,472	5,803,859	57,610	78,613	10/24/2014	C		4/20/2018
4500251630	VALLES VENDIOLA LLP 9131 QUEENS BLVD - STE 418 ELMHURST, NY 11373-5541 US	ANNUAL CAM (COMMON AREA MAINTENANCE) AUDIT	P	B		N	04	4		20,000	20,000	4,000	0	11/10/2014	O	11/9/2019	
4500251856	PROSKAUER ROSE LLP 11 TIMES SQ - FL 17 NEW YORK, NY 10036-8299 US	LEGAL COUNSEL FOR LABOR RELATED MATTERS	L	2	8	N	N	1		975,000	761,575	157,500	213,425	10/15/2014	O	10/12/2019	
4500252110	PITNEY BOWES INC 120 BLOOMINGDALE RD WHITE PLAINS, NY 10605-1500 US	LEASING OF MAIL MACHINES	H	2	8	N	N	1		66,912	46,552	9,375	20,360	12/1/2014	O	11/30/2019	
4500252428	FERGUSON ELECTRIC CONSTRUCTION CO INC 333 ELLICOTT ST BUFFALO, NY 14203-1618 US	RMNPP GSU TRANSFORMER INSTALLATION	C	B		N	N	1		358,695	113,575	0	245,120	11/20/2014	C		12/31/2018
4500252901	GE ENERGY CONTROL SOLUTIONS INC 1800 NELSON RD LONGMONT, CO 80501-6324 US	GE SIMULATOR SOFTWARE	E	1	8	F	N	1		487,272	0	0	487,272	12/4/2014	C		1/2/2018
4500253163	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	115KV CIRCUIT BREAKERS FOR NIAGARA SWITCHYARD LEM	E	B		F	N	2		2,836,051	1,726,916	647,872	1,109,135	12/15/2014	O	3/2/2023	
4500253381	SUCCESSFACTORS AN SAP COMPANY STE 1100 1 TOWER PL - FL 11 SOUTH SAN FRANCISCO, CA 94080-1828 US	HUMAN CAPITAL MANAGEMENT HOSTED SOLUTION	E	B		F	N	5		1,135,948	1,100,399	202,449	35,549	3/23/2015	O	12/31/2019	
4500253475	ARIBA INC 910 HERMOSA CT SUNNYVALE, CA 94085-4199 US	ARIBA SOURCING SOFTWARE AND HOSTING	E	2	8	F	N	1		978,792	948,954	0	29,838	1/1/2015	C		12/31/2018
4500253512	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	765KV CIRCUIT BREAKERS (QTY 7) FOR CLARK ENERGY CENTER	E	B		F	N	5		6,770,319	3,832,121	977,543	2,938,198	12/19/2014	O	12/31/2020	
4500254147	HVB AE POWER SYSTEMS INC 7250 MCGINNIS FERRY RD SUWANEE, GA 30024 US	345KV CIRCUIT BREAKER	E	B		F	N	5		1,160,932	955,255	507,035	205,677	1/13/2015	O	2/28/2020	

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4500254364	RUSSELL CORROSION CONSULTANTS LLC 7130 MINSTREL WAY - STE 230 COLUMBIA, MD 21045-5339 US	500MW CATHODIC PROTECTION SYSTEM ASSESSMENT, ENGINEERING AND DESIGN	P	B		F	N	3		475,140	471,617	148,327	3,523	1/20/2015	O	1/18/2019	
4500254367	JOHNSON CONTROLS INC 130 JOHN MUIR DR - STE 100 AMHERST, NY 14228-1139 US	NERC CIP VERSION 5 SECURITY UPGRADES - VARIOUS FACILITIES	C	B		N	N	1		23,455,589	22,986,745	1,842,006	468,844	1/28/2015	O	7/31/2019	
4500254865	SOFTWARE SENSE ENTERPRISES INC 376 BROADWAY - STE L3 SARATOGA SPRINGS, NY 12866 US	MAINTENANCE - SOFTWARE SENSE	S	2	8	N	N	1		169,375	93,050	19,750	76,325	3/1/2015	O	2/28/2020	
4500255744	SOUTHERN STATES LLC 30 GEORGIA AVE HAMPTON, GA 30228-2950 US	DESIGN, FURNISH, AND DELIVER 115KV AND 230 KV DISCONNECT SWITCHES FOR TLEM AT THE NIAGARA SWITCHYARD	E	B		F	N	6		2,924,214	1,091,693	0	1,832,521	2/23/2015	O	7/31/2019	
4500255960	TRENCH LTD 390 MIDWEST RD SCARBOROUGH, ON M1P 3B5 CA	DESIGN, FURNISH, AND DELIVER 765 KV POTENTIAL TRANSFORMERS	E	B		F	N	6		1,436,400	1,436,400	478,800	0	2/27/2015	O	5/1/2019	
4500256926	WHITEMAN OSTERMAN & HANNA LLP ATTORNEYS AT LAW 1 COMMERCE PLZ ALBANY, NY 12260-1000 US	ONGOING GENERAL LEGAL SERVICES	L	2	8	N	N	1		900,000	755,538	0	144,462	5/26/2015	C		5/25/2018
4500257532	ULTRAMAP LTD GRAINGER THE REGENT CENTRE-GOTHFORT NEWCASTLE UPON TYNE, TW NE3 3PF GB	Y49 SHIP TRAFFIC MONITORING SYSTEM	H	B		F	N	2		238,478	170,153	45,000	68,325	4/1/2015	O	3/31/2020	
4500258896	CERIDIAN EMPLOYER SERVICES 150 FISHER DR AVON, CT 06001 US	PAYROLL SERVICES	S	B		N	N	1		750,000	720,439	205,865	29,561	4/1/2015	C		12/31/2018
4500258964	BETTE & CRING LLC 18438 US ROUTE 11 WATERTOWN, NY 13601-5699 US	CONSTRUCTION OF NATURE CENTER - ROBERT MOSES STATE PARK	C	B		N	N	2		8,508,627	8,501,850	27,495	6,777	5/14/2015	C		4/30/2018
4500259425	RUBY CANYON ENGINEERING INC 743 HORIZON CT - STE 385 GRAND JUNCTION, CO 81506-8741 US	VERIFICATION SERVICES FOR THE REPORTED INVENTORY FOR THE CLIMATE REGISTRY	P	B		N	N	1		96,304	31,238	9,236	65,066	7/1/2015	C		8/1/2018
4500259572	DEADLINE SOLUTIONS INC 991 CANAL ST SYRACUSE, NY 13210-1203 US	FLOWMETER SYSTEM OPERATION AND MAINTENANCE OF THE EEL PASSAGE FACILITY AT ROBERT MOSES POWER DAM	S	1	9	N	N	1		131,508	41,654	17,493	89,854	6/3/2015	O	5/31/2020	
4500259576	BIOMARK INC 705 S 8TH ST BOISE, ID 83702-7112 US	PIT ANTENNAE SYSTEM OPERATION AND MAINTENANCE OF THE EEL PASSAGE FACILITY AT ROBERT MOSES POWER DAM	S	1	9	N	N	1		40,350	24,225	7,324	16,125	6/3/2015	O	5/31/2020	
4500260480	DELL MARKETING LP 850 ASBURY DR BUFFALO GROVE, IL 60089-4557 US	MICROSOFT ENTERPRISE AGREEMENT	I	B	7	F	N	1		1,656,494	1,646,823	0	9,671	7/1/2015	C		6/30/2018
4500260532	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	DESIGN, FURNISH, AND DELIVER THIRTY ONE (31) 230KV SF6 BREAKERS	E	B		F	N	2		8,663,891	2,211,447	326,770	6,452,444	6/25/2015	O	12/20/2023	
4500261109	FERGUSON ELECTRIC CONSTRUCTION CO INC 333 ELLICOTT ST BUFFALO, NY 14203-1618 US	INSTALLATION OF NEW EQUIPMENT FOR TRANSMISSION LIFE EXTENSION AND MODERNIZATION	C	B		N	N	1		13,581,812	13,519,014	2,248,512	62,798	7/14/2015	C		7/13/2018

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4500261322	BROOKS WASHBURN ARCHITECT PC 22 DEPOT ST - STE 16 POTSDAM, NY 13676-1140 US	VILLAGE OF WADDINGTON, NEW GAZEBO, FACILITIES BUILDING, AND PARKING IMPROVEMENT	A	M	8	N	N	1		71,306	71,306	0	0	8/18/2015	C		2/17/2018
4500261551	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	115KV AND 230KV PT, CT AND SURGE ARRESTORS TLEM - NIAGARA SWITCHYARD	E	B		F	N	6		2,826,664	1,504,531	310,815	1,322,133	5/24/2015	O	12/20/2022	
4500262061	NIAGARA UNIVERSITY PO BOX 1936 NIAGARA UNIVERSITY, NY 14109-1936 US	GROUNDS MAINTENANCE AND LANDSCAPING AT NIAGARA POWER PLANT	S	2	8	N	N	1		430,000	345,000	85,000	85,000	6/1/2015	O	5/31/2020	
4500262291	STRUCTURAL PRESERVATION SYSTEMS LLC 3521 VERNON BLVD LONG ISLAND CITY, NY 11106-5122 US	GARAGE REPAIRS PHASE 4	C	B		F	N	2		2,461,664	1,784,200	0	677,464	8/14/2015	O	8/13/2020	
4500262562	PFM ASSET MANAGEMENT LLC 1735 MARKET ST - FL 43 PHILADELPHIA, PA 19103-7502 US	FINANCIAL ADVISORY SERVICES - ISSUANCE OF DEBT	P	B		F	N	2		250,000	0	0	250,000	8/20/2015	C		8/19/2018
4500262670	GT BUSINESS SUPPLIES LLC 11513 LINDEN BLVD SOUTH OZONE PARK, NY 11420-1908 US	RICOH TONER CARTRIDGE	H	C	8	F	04	5		390,000	232,612	55,534	157,388	8/31/2015	C		9/7/2018
4500262820	MOHANTY GARGIULO LLC 100 PARK AVE - STE 1600 NEW YORK, NY 10017-5538 US	INDEPENDENT SWAP ADVISORY SERVICES	P	B		N	03	4		250,000	9,103	0	240,897	8/27/2015	C		8/26/2018
4500262861	LOADSPRING SOLUTIONS INC 187 BALLARDVALE ST - STE B210 WILMINGTON, MA 01887-1053 US	OFFSITE PRIMAVERA HOSTING	S	B		F	N	2		1,520,545	1,116,555	382,684	403,990	10/1/2015	O	9/30/2020	
4500264129	NEPC LLC 255 STATE ST BOSTON, MA 02109-2617 US	INVESTMENT MANAGEMENT CONSULTANT SERVICES	P	B		F	N	4		50,000	50,000	0	0	10/1/2015	O	9/30/2020	
4500264557	PMA MANAGEMENT CORP 380 SENTRY PKWY - STE 200 BLUE BELL, PA 19422-2328 US	THIRD PARTY ADMINISTRATIVE SERVICES - WORKERS COMP	P	B		N	N	6		1,158,721	115,750	0	1,042,971	1/1/2016	O	12/31/2020	
4500264592	LS CABLE AMERICA INC 222 BRIDGE PLZ S - STE 530 FORT LEE, NJ 07024-5730 US	SUBMARINE CABLE REPLACEMENT PROJECT PV20 FOR TLEM FROM CUMBERLANDHEAD SUBSTATION (NYPA) TO GRAND ISLE SUBSTATION (VELCO)	C	B		F	N	3		82,951,779	53,310,803	4,674,111	29,640,976	10/15/2015	C		12/31/2018
4500264656	CINEMASSIVE DISPLAYS LLC 150 OTTLEY DR NE ATLANTA, GA 30324-3925 US	NOC VIDEO WALL	H	B	8	F	N	3		201,534	201,534	0	0	10/14/2015	C		10/18/2018
4500264834	INFORMATION TECHNOLOGY CORP OF THE TRI STATES 121 GERTRUDE AVE PARAMUS, NJ 07652-2515 US	MAINTENANCE - APPLE	S	B		F	N	1		312,935	312,935	62,500	0	10/1/2015	O	5/1/2019	
4500264989	MILLER ENVIRONMENTAL GROUP INC 538 EDWARDS AVE CALVERTON, NY 11933-1636 US	SUBMARINE CABLE REMOVAL PROJECT PV20 FOR TLEM FROM CUMBERLAND HEAD SUBSTATION (NYPA) TO GRAND ISLE SUBSTATION (VELCO)	C	B		N	N	2		2,856,858	2,633,270	2,633,270	223,588	10/15/2015	C		12/31/2018
4500266123	POPPULO INC NEWSWEAVER INC 1601 TRAPELO RD - STE 267 WALTHAM, MA 02451-7338 US	CORPORATE MESSAGING SOFTWARE SOLUTION	S	B		F	N	1		55,775	55,775	0	0	12/2/2015	O	3/14/2019	

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4500267484	CITYSIDE ARCHIVES LTD 499 MILL RD EDISON, NJ 08817 US	OFFSITE RECORDS STORAGE	S	B		F	N	2		500,000	161,137	51,841	338,863	12/1/2015	O	11/30/2020	
4500267533	SCIPAR INC 26 W SPRING ST - PO BOX 400 BUFFALO, NY 14231-0400 US	NIA VISUAL DISPLAY SYSTEM (VDS) HARDWARE AND SOFTWARE UPGRADE	E	B		N	N	1		323,698	323,698	23,516	0	4/7/2016	C		4/6/2018
4500267555	J E SHEEHAN CONTRACTING CORP 208 SISSONVILLE RD POTSDAM, NY 13676-3563 US	SHORELINE STABILIZATION PROJECT	S	B	1	N	01	2		201,000	201,000	12,000	0	1/7/2016	C		1/6/2018
4500267788	KEMA INC 67 S BEDFORD ST - STE 201 E BURLINGTON, MA 01803-6803 US	CONSULTING SERVICES TO PROVIDE LOAD RESEARCH AND FORECASTING TO MARKETING	P	B		F	N	2		3,068,676	666,883	174,153	2,401,793	1/1/2016	O	12/31/2020	
4500268084	SCHICHTEL'S NURSERY INC 7420 PETERS RD SPRINGVILLE, NY 14141-9405 US	POWER FOR TREES PROGRAM	E	B		N	01	3		150,000	59,760	0	90,240	2/1/2016	O	1/31/2021	
4500268363	BURNS & MCDONNELL CONSULTANTS INC BURNS & MCDONNELL CONSULTANTS PC 9400 WARD PKWY KANSAS CITY, MO 64114-3319 US	RETIRING TWO ADJACENT AND EXISTING 230 KV H-FRAME TRANSMISSION CONSTRUCTING NEW 230KV TRANSMISSION LINES MOSES TO ADIRONDACK	P	B		F	N	10		6,659,319	5,507,191	1,632,263	1,152,128	2/1/2016	O	1/31/2021	
4500268421	APPLIED ECOLOGICAL SERVICES INC 17921 W SMITH RD BRODHEAD, WI 53520-9355 US	STRAWBERRY ISLAND WETLAND RESTORATION HABITAT IMPROVEMENT PROJECT	C	B	8	N	N	1		986,791	877,577	227,416	109,214	1/29/2016	O	12/31/2019	
4500269733	LLF CONSTRUCTION SERVICES INC 368 NEW HEMPSTEAD RD NEW CITY, NY 10956-1900 US	FURNISH AND DELIVER "CRYSTAL" ALUMINUM REPLACEMENT WINDOWS	E	C		N	N	1		194,232	194,175	0	57	3/14/2016	C		1/31/2018
4500269812	O'CONNELL ELECTRIC CO 830 PHILLIPS RD VICTOR, NY 14564 US	TLEM: STL AREA REMOTE SUBSTATIONS LIFE EXTENSION AND MODERNIZATION 230KV CIRCUIT BREAKERS REPLACEMENT IN ADIRONDACK SUBSTATION	C	B	9	N	N	47		418,502	417,914	0	588	3/7/2016	C		2/8/2018
4500269840	DELOITTE & TOUCHE LLP 4022 SELLS DR HERMITAGE, TN 37076-2903 US	INTERNAL AUDIT COSOURCE	P	B		N	N	4		3,844,841	3,844,841	580,277	0	3/7/2016	C		4/30/2018
4500270223	BENTLY NEVADA INC 1631 BENTLY PKWY S MINDEN, NV 89423-4119 US	FURNISH AND DELIVER VIBRATION MONITORING SYSTEMS - FLYNN, BRENTWOOD AND INSTALL AT 500MW	C	B		F	N	2		673,721	545,284	0	128,437	3/30/2016	C		2/13/2018
4500271037	EDENRED COMMUTER BENEFIT SOLUTIONS LLC 320 NEVADA ST - STE 401 NEWTON, MA 02460-1435 US	NYPA'S CORPORATE TRANSIT CHECK PROGRAM ADMINISTRATION	E	B		N	N	2		570,000	410,967	125,793	159,033	7/1/2016	O	6/30/2021	
4500271223	STARBOARD CONSULTING LLC 2170 W STATE ROAD 434 - STE 124 LONGWOOD, FL 32779-4976 US	MAXIMO SOFTWARE SUPPORT SERVICES	P	B		F	03	5		806,190	335,743	113,803	470,447	4/15/2016	O	4/14/2021	
4500272146	GREATER SYRACUSE MOVING AND STORAGE CO INC 6255 E TAFT RD NORTH SYRACUSE, NY 13212-2505 US	RELOCATION SERVICES	S	B	8	N	N	5		150,000	81,397	31,185	68,603	5/9/2016	O	6/30/2019	

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4500272149	BVR CONSTRUCTION CO INC 8 KING RD CHURCHVILLE, NY 14428 US	REPAIR, REFURBISH AND REPAINT 3 EA. ICE SLUICE GATES AT STL-FDR	C	B		N	N	3		6,647,188	6,355,686	2,102,145	291,502	5/9/2016	O	5/8/2019	
4500272166	G4S SECURE SOLUTIONS USA INC 1395 UNIVERSITY BLVD JUPITER, FL 33458-5289 US	SENY UNIFORMED SECURITY GUARD SERVICES	S	B		N	N	15		15,000,000	6,007,509	2,633,386	8,992,491	6/5/2016	O	6/4/2021	
4500272275	DATASPLICE LLC 414 E OAK ST FORT COLLINS, CO 80524-2950 US	DATASPLICE SOFTWARE AND CONSULTING SERVICES	P	B	7	F	N	1		664,209	653,477	230,564	10,732	12/5/2017	C		4/30/2018
4500273000	TRENCH LTD 390 MIDWEST RD SCARBOROUGH, ON M1P 3B5 CA	345KV PT AND CCVT EQUIPMENT	E	B		F	N	7		517,005	303,604	196,294	213,401	12/8/2017	O	6/10/2019	
4500273348	ENVIRONETICS GROUP ARCHITECT PC 180 SYLVAN AVE ENGLEWOOD CLIFFS, NJ 07632-2512 US	ARCHITECTURAL AND INTERIOR DESIGN SERVICES	A	B		F	N	8		360,000	136,353	52,397	223,647	6/10/2016	O	6/9/2021	
4500273386	BAVIER DESIGN LLC 277 ROWAYTON AVE NORWALK, CT 06853-1021 US	ARCHITECTURAL AND INTERIOR DESIGN SERVICES	A	B		F	N	8		240,000	4,130	0	235,870	6/10/2016	O	6/9/2021	
4500273466	FRIED FRANK HARRIS SHRIVER & JACOBSON LLP 1 NEW YORK PLZ - FL 27 NEW YORK, NY 10004-1903 US	LEGAL SERVICES	L	2	8	N	N	1		750,000	493,449	83,148	256,551	5/25/2016	O	5/25/2019	
4500273686	DELL MARKETING SLG SALES INC PO BOX 149254 AUSTIN, TX 78714 US	MS ENTERPRISE AGREEMENT	I	B	7	F	N	1		639,372	639,372	0	0	4/15/2016	C		6/30/2018
4500273852	ALSTOM GRID LLC DBA FOR GRID SOLUTIONS (US) LLC 1 POWER LN CHARLEROI, PA 15022-1082 US	345KV MOTOR OPERATED DISCONNECT SWITCHES	E	B		F	N	4		726,667	397,024	203,339	329,643	6/8/2016	O	6/10/2019	
4500274602	ALSTOM GRID LLC DBA FOR GRID SOLUTIONS (US) LLC 1 POWER LN CHARLEROI, PA 15022-1082 US	FURNISH, DELIVER AND INSTALL TWO 345KV SHUNT REACTORS AT ASTORIA ANNEX SUBSTATION	C	B		F	N	10		3,045,009	206,823	0	2,838,186	7/27/2016	O	9/26/2019	
4500274706	SCHWEITZER ENGINEERING LAB INC SEL ENGINEERING SERVICES INC 2350 NE HOPKINS CT PULLMAN, WA 99163-5600 US	FURNISH AND DELIVER ELEVEN RELAY PANELS SKINS/CABINETS	E	B		N	N	6		586,748	586,374	101,042	374	7/18/2016	C		1/30/2018
4500274819	BAKER BOTTS LLP PO BOX 301251 DALLAS, TX 75303-1251 US	LEGAL SERVICES	L	2	9	F	N	1		750,000	609,872	146,360	140,128	5/17/2016	O	5/16/2019	
4500274867	OHM'S ELECTRICAL CORP 6510 CENTRAL AVE GLENDALE, NY 11385-6244 US	HELP ELECTRICAL INSTALLATION AT JFK BUILDINGS #208, #209 AND HANGER #19	C	B		N	03	3		1,474,286	1,243,395	409,170	230,891	8/24/2016	C		9/17/2018
4500275010	GE INTELLIGENT PLATFORMS INC 2500 AUSTIN DR CHARLOTTESVILLE, VA 22911-8319 US	PROVIDE SOFTWARE AND PROFESSIONAL SERVICES FOR DESIGN, IMPLEMENTATION AND TRANSITION OF ASSET HEALTH MONITORING AND DIAGNOSTICS CENTER	E	B		F	N	4		3,250,280	2,760,569	799,321	489,711	8/1/2016	O	7/31/2019	
4500275011	KAPSCH TRAFFICCOM USA INC 2855 PREMIERE PKWY DULUTH, GA 30097-5017 US	WIRELESS CONTROL OF RAIL HEATERS - MTA	E	B		F	N	1		2,075,578	2,074,670	624,924	908	7/22/2016	C		7/26/2018

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4500275227	WALKER PARKING CONSULTANTS/ ENGINEERS INC 50 W 23RD ST - STE 704 NEW YORK, NY 10010-5384 US	GARAGE ROOF ARCHITECTURAL AND ENGINEERING DESIGN AND CONSTRUCTION MANAGEMENT SERVICES	P	B		N	N	8		991,879	735,825	241,421	256,054	8/1/2016	O	2/27/2021	
4500275369	NORTH CAROLINA STATE UNIVERSITY OFFICE OF RESEARCH ADMINISTRATION 2701 SULLIVAN DR - BOX 7514 RALEIGH, NC 27695-7514 US	TESTING OF CONVERTIBLE STATIC CONVERTER SPARE CONTROL BOARDS ON THE TRANSIENT NETWORK ANALYZER	S	2	8	F	N	1		502,124	204,158	10,860	297,966	8/1/2016	O	7/31/2019	
4500275419	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	FURNISH AND DELIVER 18 X345KV SURGE ARRESTORS TO BG AS PART OF TLEM	E	B		F	N	3		69,296	60,896	38,991	8,400	8/4/2016	C		7/3/2018
4500275526	HONEYWELL INTERNATIONAL INC 5 DAKOTA DR - STE 120 NEW HYDE PARK, NY 11042-1109 US	RETRO-COMMISSIONING AT ADAM CLAYTON POWELL STATE OFFICE	C	B	7	N	N	1		189,493	138,746	13,602	50,747	8/12/2016	C		7/31/2018
4500275657	NAVIGANT CONSULTING INC 685 3RD AVE - FL 14 NEW YORK, NY 10017-4024 US	TRANSMISSION/RATE CONSULTING SERVICES	P	B		N	N	4		1,800,000	178,939	0	1,621,061	9/28/2016	O	9/27/2021	
4500275675	RITZ INSTRUMENT TRANSFORMERS INC 25 HAMBURG AVE LAVONIA, GA 30553-3577 US	BUSHING CT'S 345KV ELECTRICAL EQUIPMENT	E	B		F	N	7		56,100	56,100	28,050	0	8/11/2016	O	6/10/2019	
4500275688	NEXANT INC 44 S BROADWAY - STE 404 WHITE PLAINS, NY 10601-4439 US	TRANSMISSION/RATE CONSULTING SERVICES	P	B		N	N	4		1,800,000	0	0	1,800,000	9/28/2016	O	9/27/2021	
4500275701	SALARY.COM LLC 34 WASHINGTON ST - STE 310 WELLESLEY, MA 02481-1903 US	CLOUD BASED COMPENSATION DATA ANALYTICS AND SURVEYS	S	B		F	N	5		82,500	49,500	16,500	33,000	8/1/2016	O	7/31/2021	
4500275929	ALLIANCE FOR SUSTAINABLE ENERGY LLC 15013 DENVER WEST PKWY GOLDEN, CO 80401-3111 US	NREL SUPPORT TO THE NYPA SOLAR PROGRAM	P	1	8	F	N	1		200,000	200,000	0	0	8/18/2016	O	8/17/2019	
4500276305	SIEMENS INDUSTRY INC 7000 SIEMENS RD WENDELL, NC 27591-8309 US	TRANSIENT NETWORK ANALYZER EQUIPMENT	E	1	8	F	N	1		90,000	45,000	0	45,000	7/1/2016	O	7/31/2019	
4500276379	CANDELA SYSTEMS CORP 168 OLD SAW MILL RIV RD HAWTHORNE, NY 10532-1515 US	LIGHTING UPGRADE	C	B		N	04	4		338,473	338,470	52,334	3	9/16/2016	C		2/28/2018
4500276397	OTIS ELEVATOR CO 1 ODELL PLZ - STE 120 YONKERS, NY 10701-1415 US	WPO CENTROPLEX AND GARAGE BUILDING ELEVATOR MODERNIZATION	C	B		N	N	5		2,323,352	1,733,709	1,335,323	589,643	9/1/2016	O	2/28/2019	
4500276426	EXPRESS SCRIPTS INC 1 EXPRESS WAY SAINT LOUIS, MO 63121-1824 US	THIRD PARTY ADMIN SERVICES FOR AUTHORITY'S HEALTH AND BENEFITS PROGRAM FOR PHARMACY AND EGWP	S	B		F	N	10		1,350,000	223,506	169,418	1,126,494	1/1/2017	O	12/31/2021	
4500276429	DELTA DENTAL OF NEW YORK 250 W 57TH ST - STE 605 NEW YORK, NY 10107-0730 US	THIRD PARTY ADMIN SERVICES FOR AUTHORITY'S HEALTH AND BENEFITS PROGRAM FOR DENTAL	S	B		N	N	10		450,000	148,486	78,658	301,514	1/1/2017	O	12/31/2021	
4500276433	DAVIS VISION INC 175 EXPRESS ST PLAINVIEW, NY 11803 US	THIRD PARTY ADMIN SERVICES FOR AUTHORITY'S HEALTH AND BENEFITS PROGRAM FOR VISION	S	B		N	N	10		25,000	5,922	3,445	19,078	1/1/2017	O	12/31/2021	
4500276445	UNITED HEALTHCARE SERVICES LLC 2950 EXPRESSWAY DR S - STE 240 ISLANDIA, NY 11749-1412 US	THIRD PARTY ADMIN SERVICES FOR AUTHORITY'S HEALTH AND BENEFITS PROGRAM FOR MAJOR MEDICAL AND HOSPITALIZATION AND FSA	S	B		N	N	10		9,400,000	1,706,691	167,730	7,693,309	1/1/2017	O	12/31/2021	

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4500276653	ABRAMS & ABRAMS LLP 363 7TH AVE - 12TH FL NEW YORK, NY 10001-3904 US	IMMIGRATION COUNSEL SERVICES	L	B		N	N	9		500,001	311,182	121,505	188,819	10/3/2016	O	10/2/2021	
4500276668	BGL ASSET SERVICES LLC 2193 NORTHWAY DR MT PLEASANT, MI 48858-4732 US	500MW CATHODIC PROTECTION SYSTEM CONSTRUCTION PROJECT	C	B		F	N	6		1,774,513	1,057,223	270,047	717,290	11/11/2016	C		11/10/2018
4500276754	FOX ROTHSCHILD LLP 101 PARK AVE - STE 1700 NEW YORK, NY 10178-0002 US	LEGAL SERVICES	L	2	8	N	N	1		5,100,001	4,153,673	3,318,598	946,328	8/29/2016	O	8/28/2020	
4500278395	PITNEY BOWES INC 120 BLOOMINGDALE RD WHITE PLAINS, NY 10605-1500 US	LEASING OF MAIL EQUIPMENT - NJPA #043012-PIT	H	B	6	F	N	1		47,377	34,959	24,075	12,418	12/1/2016	O	11/30/2019	
4500279036	OPEN ACCESS TECHNOLOGY INTERNATIONAL INC 3660 TECHNOLOGY DR MINNEAPOLIS, MN 55418-1015 US	DIGITAL CERTIFICATES	E	C	6	F	N	2		32,500	32,500	0	0	11/16/2016	O	11/9/2020	
4500279107	EATON CORP C/O HASGO POWER EQUIPMENT SALES INC 151 W MAIN ST - PO BOX 400 LE ROY, NY 14482-1317 US	STATION SERVICE UPGRADE PROJECT PLATTSBURGH SUBSTATION	E	B		N	N	4		1,243,587	1,119,145	1,046,320	124,442	11/16/2016	C		12/31/2018
4500279917	SIEMENS INDUSTRY INC 4401 FAIR LAKES CT - STE 400 FAIRFAX, VA 22033-3848 US	SIEMENS RISKSPECTIVES LICENSE HOSTING, MAINTENANCE, AND SUPPORT	E	1	8	F	N	1		492,485	333,985	66,497	158,500	1/1/2017	C		3/31/2018
4500280217	DIRECTOR'S DESK LLC ONE LIBERTY PLAZA - 49TH FL NEW YORK, NY 10006-1404 US	DIRECTOR'S DESK SUBSCRIPTION	S	1	6	N	N	1		22,379	22,279	0	100	1/31/2017	C		1/30/2018
4500280255	CONCUR TECHNOLOGIES INC 601 108TH AVE NE - STE 1000 BELLEVUE, WA 98004-4750 US	CONCUR T AND E CLOUD BASED SOFTWARE SOLUTION AND SERVICES	S	2	8	F	N	1		522,071	151,424	117,164	370,647	12/19/2016	O	12/18/2021	
4500280387	VRINDA INC 303 E 83RD ST - APT 32B NEW YORK, NY 10028-4324 US	MANAGEMENT AND TECHNICAL CONSULTING SERVICES FOR DISTRIBUTION UTILITY OF THE FUTURE PROGRAM	P	B		N	04	14		490,770	337,955	229,665	152,815	1/3/2017	O	1/2/2020	
4500280389	ENERGY AND ENVIRONMENTAL ECONOMICS INC 101 MONTGOMERY ST - STE 1600 SAN FRANCISCO, CA 94104-4133 US	MANAGEMENT AND TECHNICAL CONSULTING SERVICES FOR DISTRIBUTION UTILITY OF THE FUTURE PROGRAM	P	B		F	N	14		280,000	279,999	129,999	1	1/3/2017	O	1/2/2020	
4500280390	WOOD MACKENZIE POWER AND RENEWABLES 2 LIBERTY SQ FL 2 BOSTON, MA 02109-4884 US	MANAGEMENT AND TECHNICAL CONSULTING SERVICES FOR DISTRIBUTION UTILITY OF THE FUTURE PROGRAM	P	B		N	N	14		204,500	114,500	14,500	90,000	1/3/2017	O	3/14/2019	
4500280487	MILLER ADVERTISING AGENCY INC 220 WEST 42ND ST NEW YORK, NY 10036-7200 US	MEDIA ADVERTISING SERVICES	P	B		N	N	4		500,000	68,019	48,662	431,981	1/1/2017	O	12/31/2021	
4500280548	IKNOW LLC BERNARD L PALOWITCH JR 100 OVERLOOK CTR - FL 2 PRINCETON, NJ 08540-7814 US	ENTERPRISE SEARCH, TAXONOMY, SOFTWARE AND INTEGRATION SERVICE	S	B		F	N	3		964,450	780,979	211,183	183,471	12/29/2016	O	12/28/2021	
4500280861	PUBLIC UTILITIES MAINTENANCE INC 212-26 99TH AVE QUEENS VILLAGE, NY 11429 US	STEEL TRANSMISSION TOWER PAINTING	C	B		N	N	2		4,906,043	4,905,415	2,323,722	628	1/24/2017	C		12/31/2018
4500280970	ADVANCE TESTING CO INC 3348 ROUTE 208 CAMPBELL HALL, NY 10916-3508 US	ON-CALL SPECIAL INSPECTION SERVICES	P	2	8	N	N	1		50,000	17,901	5,109	32,099	1/11/2017	C		1/10/2018

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4500281057	POLLINATOR PARTNERSHIP 423 WASHINGTON ST - FL 5 SAN FRANCISCO, CA 94111-2354 US	REVIEW, TRAINING AND DEVELOPMENT OF A MONITORING PROTOCOL FOR POLLINATOR MANAGEMENT	P	2	8	F	N	1		14,600	14,600	14,600	0	1/13/2017	C		12/31/2018
4500281368	GENERAL ELECTRIC INTERNATIONAL INC 1 RIVER RD - BLDG 53-310 SCHENECTADY, NY 12305-2551 US	MAINTENANCE - GE MAPS	S	1	8	N	N	1		95,000	95,000	0	0	1/21/2017	C		1/20/2018
4500281775	MELTWATER NEWS US INC 50 FREMONT ST STE 200 SAN FRANCISCO, CA 94105-2244 US	NEWSCLIPPING SERVICES	S	2	6	N	N	1		17,900	17,900	4,475	0	2/10/2017	C		2/9/2018
4500282025	LEXISNEXIS RISK SOLUTIONS 1000 ALDERMAN DR ALPHARETTA, GA 30005-4101 US	SOFTWARE SUBSCRIPTION	E	B	7	N	N	1		40,000	33,002	16,500	6,998	2/7/2017	C		4/17/2018
4500282188	ALSTOM GRID LLC DBA FOR GRID SOLUTIONS (US) LLC 1 POWER LN CHARLEROI, PA 15022-1082 US	115/230KV DISCONNECT SWITCHES	E	B		F	N	4		542,063	272,835	244,275	269,228	3/2/2017	O	3/6/2025	
4500282254	DOWD BATTERY CO INC 1571 BRONSON RD GRAND ISLAND, NY 14072-2910 US	SWITCHYARD DC BATTERY REPLACEMENT	E	B		N	01	4		513,958	425,332	425,332	88,626	2/15/2017	C		2/14/2018
4500282455	ORACLE AMERICA INC 1910 ORACLE WY RESTON, VA 20190-4733 US	MAINTENANCE	E	B	7	N	N	2		15,606	15,606	3,901	0	2/17/2017	C		2/9/2018
4500282652	ASPEN INC 49 N SAN MATEO DR SAN MATEO, CA 94401-2865 US	MAINTENANCE - ASPEN SOFTWARE	S	1	6	N	N	1		8,692	8,692	0	0	2/1/2017	C		1/31/2018
4500282920	GE ENERGY CONTROL SOLUTIONS INC 1800 NELSON RD LONGMONT, CO 80501-6324 US	500MW HMI/ETHERNET SWITCHES/HISTORIAN UPGRADE	H	1	6	F	N	1		49,131	49,131	0	0	3/1/2017	C		2/28/2018
4500282937	BETTER CARTING SERVICE INC 32 RUSSELL ST WHITE PLAINS, NY 10606-1005 US	WASTE MANAGEMENT SERVICES	S	2	8	N	01	1		100,000	68,547	22,566	31,453	2/1/2017	C		1/31/2018
4500283214	ASSETWORKS LLC DBA FOR TRAPEZE SOFTWARE GROUP INC 998 OLD EAGLE SCHOOL RD - STE 1215 WAYNE, PA 19087-1862 US	MAINTENANCE - MAXIMUM FLEET	S	B	7	N	N	1		33,455	33,455	0	0	4/1/2017	C		3/31/2018
4500283424	SILKROAD TECHNOLOGY INC 102 W 3RD ST - STE 250 WINSTON SALEM, NC 27101-3900 US	ANNUAL SUBSCRIPTION FOR SILKROAD/REDCARPET	S	1	5	N	N	1		52,225	52,017	725	208	3/29/2017	C		3/28/2018
4500283425	NEW YORK STATE TECHNOLOGY ENTERPRISE CORP 500 AVERY LN - STE A ROME, NY 13441-4236 US	AD-HOC ENGINEERING AND TECHNICAL SUPPORT	A	B	7	N	N	1		28,442	28,442	19,620	0	4/10/2017	C		4/9/2018
4500283578	ORACLE AMERICA INC 500 ORACLE PKWY REDWOOD CITY, CA 94065-1677 US	MAINTENANCE	E	B	7	N	N	4		214,545	214,545	53,636	0	3/23/2017	C		3/22/2018
4500283602	THE OKONITE CO INC 3 GARRET MOUNTAIN PLZ - STE 304 WOODLAND PARK, NJ 07424-3352 US	FURNISH, TEST AND DELIVER Y49 SEGMENT III SPARE CABLE	E	B		N	N	1		2,697,750	2,697,750	449,625	0	3/28/2017	C		3/2/2018

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4500283603	ONSOLVE INTERMEDIATE HOLDING CO ONSOLVE LLC 780 W GRANADA BLVD ORMOND BEACH, FL 32174 US	ANNUAL SMARTNOTICE ANNUAL MAINTENANCE	S	1	6	N	N	1		16,000	16,000	0	0	3/22/2017	C		3/21/2018
4500283672	THIELSCH ENGINEERING INC 195 FRANCES AVE CRANSTON, RI 02910-2211 US	FLYNN PHASE II HEP WELDS, FAC AND HRSG INSPECTION PROJECT	P	B		N	N	2		187,550	170,600	4,000	16,950	4/3/2017	C		4/2/2018
4500283839	HONEYWELL INTERNATIONAL INC 5 DAKOTA DR - STE 120 NEW HYDE PARK, NY 11042-1109 US	CUNY BROOKLYN ENERGY EFFICIENCY	E	B	7	N	N	1		99,348	99,348	10,177	0	4/1/2017	C		3/31/2018
4500283899	USIC LOCATING SERVICES LLC DBA FOR LOCATE HOLDINGS INC 9045 RIVER RD STE 300 INDIANAPOLIS, IN 46240-6400 US	CONSULTING SERVICES FOR BURIED UTILITIES RESPONSE SERVICES	S	B		N	N	1		332,392	97,036	67,728	235,356	4/1/2017	C		3/31/2018
4500284142	ADOBE SYSTEMS INC 345 PARK AVE SAN JOSE, CA 95110-2704 US	MAINTENANCE - ADOBE	S	2	6	N	N	1		17,280	16,862	0	418	2/22/2017	C		2/21/2018
4500284160	ELECTRIC POWER GROUP LLC 251 S LAKE AVE STE 300 PASADENA, CA 91101-3055 US	LICENSE AND MAINTENANCE - EPG PHASOR DATA EXTRACTOR	E	1	6	F	N	1		25,000	25,000	0	0	4/1/2017	C		3/31/2018
4500284193	BUFFALO COMPUTER GRAPHICS INC 4185 BAYVIEW RD BLASDELL, NY 14219-2732 US	BUFFALO COMPUTER GRAPHICS HOSTED DISASTER LAN	S	B	7	N	N	1		284,548	209,867	137,551	74,681	4/21/2017	O	4/16/2020	
4500284219	NYS DIV OF HOMELAND SECURITY AND EMERGENCY SERVICES STE 710 1220 WASHINGTON AVE - BLDG ALBANY, NY 12226-1799 US	ANNUAL FIRE SAFETY INSPECTION AND SERVICES	S	1	9	N	N	1		225,000	35,000	35,000	190,000	4/1/2017	O	3/31/2022	
4500284411	BARRETT PAVING MATERIALS INC 26572 NYS ROUTE 37 WATERTOWN, NY 13601-5833 US	STL MAIN ACCESS ROAD REHABILITATION PHASE II PROJECT	C	B		N	N	3		1,894,780	1,894,780	0	0	4/13/2017	C		1/15/2018
4500284535	GP STRATEGIES CORP 11000 BROKEN LAND PKWY STE 200 COLUMBIA, MD 21044-3555 US	PERFORMANCE PLUS TIER I BASIC SOFTWARE SUPPORT AGREEMENT	P	1	8	N	N	1		113,000	112,069	84,069	931	1/1/2017	C		12/29/2018
4500284563	REED & ASSOCIATES CPAS INC 8700 CENTEREVILLE RD - STE 203 MANASSAS, VA 20110-8411 US	SUPPORT THE PROJECT PORTFOLIO GOVERNANCE PROCESS AND PROGRAM CONTROLS DEVELOPMENT	P	2	8	F	N	1		576,378	574,054	223,901	2,324	4/19/2017	C		12/31/2018
4500284738	SCRUFARI CONSTRUCTION CO INC 3925 HYDE PARK BLVD NIAGARA FALLS, NY 14305-1701 US	RMNPP ASSEMBLY BAY SLAB FLOOR REPAIRS	C	B		N	N	3		3,623,842	3,623,841	1,617,613	1	4/24/2017	C		4/16/2018
4500284802	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	NIAGARA RELICENSING POST-INSTALLATION COMPLIANCE AND IMPLEMENTATION SERVICES	P	B		N	N	1		691,250	690,072	488,399	1,178	4/10/2017	C		6/30/2018
4500284846	NEW YORK STATE TECHNOLOGY ENTERPRISE CORP 500 AVERY LN - STE A ROME, NY 13441-4236 US	MICROWAVE PATH ENGINEERING AND FACILITY PLANNING SERVICES	E	B	7	N	N	1		19,996	17,238	4,002	2,758	4/26/2017	C		4/25/2018

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4500284896	READSOFT INC 3838 N CAUSEWAY BLVD - STE 2400 METAIRIE, LA 70002-8308 US	MAINTENANCE - READSOFT AP AUTOMATION	S	1	6	N	N	1		17,867	17,867	17,867	0	5/1/2017	C		4/30/2018
4500284897	SIEMENS INDUSTRY INC 400 STATE ST SCHENECTADY, NY 12305-2304 US	PSS MUST LICENSE FEE RENEWAL	S	1	6	N	N	1		24,505	24,505	0	0	5/18/2017	C		5/17/2018
4500284921	PKA TECHNOLOGIES INC 1 EXECTIVE BLVD - STE 203 SUFFERN, NY 10901-4156 US	ENTERPRISE OPERATIONS SOFTWARE, MAINTENANCE AND CONSULTING	I	M	8	F	03	1		154,230	154,230	0	0	5/1/2017	C		4/30/2018
4500284922	MILLER PROCTOR NICKOLAS INC 2 HUDSON ST SLEEPY HOLLOW, NY 10591-0815 US	BOILER UPGRADES	S	1	8	N	N	1		200,000	171,106	23,616	28,894	4/28/2017	C		4/27/2018
4500284924	BVR CONSTRUCTION CO INC 8 KING RD CHURCHVILLE, NY 14428 US	RM INTAKE ARCHED-PANEL COFFERDAM	E	B		N	N	3		1,738,860	1,319,417	1,167,678	419,443	5/1/2017	O	4/30/2020	
4500284949	OSISOFT LLC 1600 ALVARADO ST SAN LEANDRO, CA 94577 US	MAINTENANCE - OSI ENTERPRISE	S	B	8	N	N	2		6,162,500	2,708,052	356,880	3,454,448	5/2/2017	O	5/1/2027	
4500285180	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	CONSULTING SERVICES FOR THE PREPARATION OF THE FERC RELICENSING OF THE GREGORY B. JARVIS POWER PROJECT PHASE II	P	B		N	N	2		890,423	345,445	305,145	544,978	6/1/2017	O	5/31/2022	
4500285285	CARDIAC LIFE PRODUCTS INC PO BOX 25755 ROCHESTER, NY 14625-0755 US	PROVIDE AED PROGRAM MANAGEMENT SERVICES	P	B	8	N	03	1		61,708	46,525	14,046	15,183	5/19/2017	C		5/18/2018
4500285365	MICROSOFT CORP 3000 BAYPORT DR - STE 480 TAMPA, FL 33607 US	MICROSOFT SUPPORT	S	B	7	N	N	1		148,680	148,680	0	0	6/28/2017	C		6/27/2018
4500285426	FLOW SCIENCE INC 683 HARKLE RD - STE A SANTA FE, NM 87505-4750 US	MAINTENANCE - FLOW 3D/MP	S	1	6	N	N	1		20,160	20,160	0	0	5/15/2017	C		5/14/2018
4500285429	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	SOLARWINDS POLLING ENGINE LICENSE	I	B	7	F	N	1		14,843	14,843	0	0	5/16/2017	C		5/15/2018
4500285516	SPECTRA ENGINEERING ARCHITECTURE & SURVEYING PC 19 BRITISH AMERICAN BLVD W - STE 2 LATHAM, NY 12110-1483 US	BIENNIAL BRIDGE INSPECTION - STL BARNHART ISLAND BRIDGE	A	B		N	N	2		40,472	40,472	20,236	0	6/1/2017	C		5/31/2018
4500285599	TECHNICAL BUILDING SERVICES INC 12 E COMMERCE DR BALLSTON SPA, NY 12020 US	CONTROLS UPGRADE ON-CALL BUILDING MANAGEMENT SYSTEM	S	B	7	N	N	1		125,043	68,067	42,679	56,976	5/30/2017	C		5/28/2018
4500285616	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	TRASH RACK REPLACEMENT	E	B		N	01	2		2,452,961	1,927,613	802,122	525,348	5/22/2017	O	5/21/2019	
4500285668	DANNIBLE & MCKEE LLP 221 S WARREN ST SYRACUSE, NY 13202 US	CUSTOMER COMPLIANCE AUDITS	P	B		N	N	5		577,500	136,105	111,189	441,395	8/1/2017	O	7/31/2022	
4500285741	POWERGEM LLC 632 PLANK RD - STE 101 CLIFTON PARK, NY 12065-4883 US	POWERGEM TARA SOFTWARE LICENSE RENEWAL	E	1	5	N	N	1		32,000	32,000	0	0	6/1/2017	C		5/31/2018

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4500285978	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	LICENSES AND MAINTENANCE - WINZIP	I	B	5	F	04	2		9,138	9,138	0	0	5/31/2017	C		5/30/2018
4500286162	USABLENET INC 142 W 57TH ST - FL 7 NEW YORK, NY 10019-3300 US	MAINTENANCE - USABLENET	S	2	6	N	N	1		8,294	8,294	0	0	7/21/2017	C		7/20/2018
4500286163	GLOBALSTAR INC GLOBALSTAR USA LLC 461 S MILPITAS BLVD MILPITAS, CA 95035-5485 US	GLOBALSTAR SERVICES	S	1	6	N	N	1		46,861	46,861	0	0	4/16/2017	C		4/15/2018
4500286164	MTS INTEGRA TRAK INC 70 GRAND AVE - STE 104 RIVER EDGE, NJ 07661-1936 US	ANNUAL TELECOM SYSTEM SERVICES	S	1	6	N	N	1		14,615	14,615	0	0	5/1/2017	C		4/30/2018
4500286264	OPEN TEXT INC 951 MARINERS ISLAND BLVD - FL 7 SAN MATEO, CA 94404-1561 US	MAINTENANCE - LIVELINK	S	B	7	N	N	1		110,562	110,562	0	0	7/1/2017	C		6/30/2018
4500286265	HEWLETT PACKARD ENTERPRISE CO 3000 HANOVER ST PALO ALTO, CA 94304-1185 US	MAINTENANCE - DATA CENTER EQUIPMENT	E	B	7	N	N	1		128,284	127,388	31,264	896	6/6/2017	C		12/16/2018
4500286337	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	RMNPP AND LPGP DRAFT TUBE GATE REPLACEMENT	C	B		N	01	2		1,563,944	1,563,944	515,512	0	6/7/2017	C		12/19/2018
4500286339	SIRSI CORP DBA SIRSIDYNIX EOS 3300 N ASHTON BLVD STE 500 LEHI, UT 84043-5340 US	INTEGRATED LIBRARY SYSTEM CLOUD-BASED	S	B		F	N	39		134,859	38,108	37,700	96,751	6/12/2017	O	6/11/2022	
4500286401	O'CONNELL ELECTRIC CO 830 PHILLIPS RD VICTOR, NY 14564 US	STL FDR WAREHOUSE AND SECURITY FACILITY 13.8KV ELECTRICAL FEED	C	B		N	N	4		633,876	563,513	302,650	70,363	6/14/2017	O	6/13/2019	
4500286428	OCO CONSULTING LLC 45 BROADWAY STE 2150 NEW YORK, NY 10006-3780 US	GLOBAL ATTRACTION PROGRAM SERVICES	P	B		N	N	7		851,375	401,375	273,875	450,000	6/15/2017	O	12/31/2020	
4500286460	PRESIDIO NETWORKED SOLUTIONS GROUP DBA FOR PRESIDIO HOLDINGS INC 30 STANFORD DR - STE 2 FARMINGTON, CT 06032-2453 US	MAINTENANCE - F5 SMARTNET	E	B	7	N	N	6		57,360	57,360	0	0	4/24/2017	C		4/23/2018
4500286483	PAUL J SCARIANO INC 12 POTTER AVE NEW ROCHELLE, NY 10801-2107 US	500MW COMBINED CYCLE POWER PLANT CONTROL ROOM UPGRADE	C	B		N	N	1		700,882	700,882	74,000	0	6/19/2017	C		6/18/2018
4500286553	CHB INDUSTRIES INC 1300 VETERANS MEMORIAL HWY STE 340 HAUPPAUGE, NY 11788-3078 US	INSTALLATION OF WINDOW FILM THROUGHOUT WP CENTROPLEX BUILDING	C	2	8	N	03	1		200,000	120,981	60,086	79,019	5/31/2017	C		12/31/2018
4500286567	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	OPSNET EQUIPMENT	E	B	7	F	04	4		41,118	41,118	0	0	6/14/2017	C		1/2/2018
4500286641	PRESIDIO NETWORKED SOLUTIONS GROUP DBA FOR PRESIDIO HOLDINGS INC 30 STANFORD DR - STE 2 FARMINGTON, CT 06032-2453 US	SPARK ACTIVE SOFTWARE	E	B	7	N	N	8		81,857	81,834	56,263	23	6/16/2017	C		6/26/2018
4500286671	RSI ROOFING INC 44 COUNTY RTE 9 - BOX 282B GOUVERNEUR, NY 13642-2565 US	OUT BUILDING ROOF REPLACEMENT RMPD BUILDINGS PROJECT	C	B		N	01	1		686,455	682,155	290,410	4,300	6/21/2017	C		12/30/2018

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4500286689	SCHWEITZER ENGINEERING LAB INC SEL ENGINEERING SERVICES INC 2350 NE HOPKINS CT PULLMAN, WA 99163-5600 US	ON SITE TRAINING FOR Y49 RELAY UPGRADE PROJECT	P	2	8	N	N	1		18,000	18,000	0	0	11/15/2017	C		2/14/2018
4500286803	DELL MARKETING LP 850 ASBURY DR BUFFALO GROVE, IL 60089-4557 US	MAINTENANCE - ADOBE CREATIVE CLOUD FOR TEAMS	S	2	6	N	N	1		22,669	22,669	0	0	6/5/2017	C		6/4/2018
4500286836	HATCH ASSOCIATES CONSULTANTS INC 100 SYLVAN PKWY AMHERST, NY 14228-1146 US	BG UPPER COMPLEX REPURPOSE	A	B		N	N	2		956,080	422,557	334,757	533,523	6/23/2017	O	6/22/2020	
4500286848	ROCKWELL COLLINS INC & SUBSIDIARIES 400 COLLINS RD NE CEDAR RAPIDS, IA 52498-0505 US	NAVIGATION DATA FLIGHT AND MAP DISPLAYS	S	1	6	N	N	1		5,620	5,620	0	0	8/1/2017	C		7/31/2018
4500286932	COMMUNICATION BROKERS INC CBI TELECOMMUNICATION CONSULTANTS 437 44TH ST SW WYOMING, MI 49548-4173 US	TELECOM COST RECOVERY AUDIT	P	B		F	N	6		250,000	176,002	176,002	73,998	7/1/2017	C		6/30/2018
4500286979	TRC ENGINEERS INC 215 GREENFIELD PKWY - STE 102 LIVERPOOL, NY 13088-6651 US	TOWN OF HUNTINGTON MICROGRID NY PRIZE STAGE 2 PROJECT WBS # ES-ESN-5074	P	2	1	F	N	1		813,333	260,266	260,266	553,067	6/27/2017	O	7/24/2019	
4500286983	SCULLY CONSTRUCTION LLC 141 LAFAYETTE AVE WHITE PLAINS, NY 10603 US	ISOC AND 8TH FLOOR REBUILD	C	B		N	N	2		10,310,953	10,308,970	2,692,759	1,983	6/28/2017	C		6/28/2018
4500287026	HATCH ASSOCIATES CONSULTANTS INC 100 SYLVAN PKWY AMHERST, NY 14228-1146 US	ARCHITECTURAL AND ENGINEERING SERVICES FOR BG CONTROL ROOM	A	B		N	N	2		261,602	196,740	166,740	64,862	7/19/2017	O	7/18/2020	
4500287027	DEAN ENERGY SOLUTIONS CORP 1332 CLINTON ST HOBOKEN, NJ 07030-3302 US	500MW FO TANK YARD FIRE PROTECTION SYSTEM	C	B		F	N	4		4,611,685	3,871,475	3,561,213	740,210	6/29/2017	O	6/28/2019	
4500287044	FERGUSON ELECTRIC CONSTRUCTION CO INC 333 ELLICOTT ST BUFFALO, NY 14203-1618 US	NIA SWITCHYARD LEM EQUIPMENT INSTALLATION	E	B	8	N	N	1		26,301,522	12,909,527	5,351,828	13,391,995	6/29/2017	O	6/28/2020	
4500287049	HATCH ASSOCIATES CONSULTANTS INC 100 SYLVAN PKWY AMHERST, NY 14228-1146 US	ARCHITECTURAL AND ENGINEERING SERVICES FOR STL CONTROL ROOM	A	B		N	N	2		284,867	240,000	210,000	44,867	7/19/2017	O	7/18/2020	
4500287054	ALLEGRO DEVELOPMENT CORPORATION 600 N PEARL ST STE 2000 DALLAS, TX 75201-2896 US	ENERGY COMMODITY RISK MANAGEMENT AND ANALYTICS SOLUTION	E	B		F	N	8		5,660,173	3,095,229	1,274,851	2,564,944	6/30/2017	O	6/29/2022	
4500287301	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	CISCO OPSNET PROJECT	E	B	5	N	04	2		11,367	11,367	11,367	0	7/10/2017	C		7/9/2018
4500287345	CDW GOVERNMENT INC 75 REMITTANCE DR - STE 1515 CHICAGO, IL 60675-1515 US	RSA AUTHENTICATION MANAGER ENTERPRISE EDITION LICENSES AND ENHANCED SUPPORT	S	B	7	F	N	1		11,721	11,535	0	186	7/11/2017	C		7/10/2018
4500287364	CEC STUYVESANT COVE INC DBA SOLAR ONE 37 W 26TH ST - RM 209 NEW YORK, NY 10010-1129 US	STEM WORKSHOPS AND AFTER SCHOOL PROGRAMS	P	2	5	N	N	1		49,500	43,720	30,820	5,780	7/11/2017	C		10/10/2018

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4500287398	MICHELS CORP- MICHELS POWER DBA FOR M10 INC 1775 E SHADY LN NEENAH, WI 54956 US	OPTICAL GROUND WIRE INSTALLATION CABLE	E	B	8	N	N	5		2,237,676	2,139,744	2,139,744	97,932	7/17/2017	O	3/31/2019	
4500287468	NEW YORK SUN WORKS INC 157 COLUMBUS AVE FL 4 NEW YORK, NY 10023-6083 US	BROOKLYN GREEN CLASSROOM INITIATIVE CURRICULUM	P	2	3	N	N	1		103,506	103,506	0	0	7/14/2017	C		6/29/2018
4500287523	GRAVITY PRO CONSULTING LLC SYLVANA COCHE 21 VIA LAMPARA SAN CLEMENTE, CA 92673-7054 US	SAP CLOUD LEARNING HUB PROF EDITION	S	B	5	F	03	3		12,706	12,706	0	0	7/27/2017	C		7/26/2018
4500287624	DELL MARKETING LP 850 ASBURY DR BUFFALO GROVE, IL 60089-4557 US	MAINTENANCE - VMWARE	S	B	7	N	N	1		109,458	109,458	109,458	0	7/1/2017	C		6/30/2018
4500287721	STELLAR SERVICES INC 70 W 36TH ST - RM 702 NEW YORK, NY 10018-1258 US	MAINTENANCE - INFOBLOX	S	M	6	N	04	1		37,448	37,448	5,546	0	7/1/2017	C		6/30/2018
4500287774	IMMIXTECHNOLOGY INC 8444 WESTPARK DR - STE 200 MCLEAN, VA 22102-5112 US	MOBILE COMMUNICATIONS	S	B	6	N	N	1		39,902	39,902	0	0	8/11/2017	C		8/10/2018
4500287776	PRESIDIO NETWORKED SOLUTIONS GROUP DBA FOR PRESIDIO HOLDINGS INC 30 STANFORD DR - STE 2 FARMINGTON, CT 06032-2453 US	MAINTENANCE - ZOOM	S	2	6	N	N	1		13,900	13,900	0	0	7/22/2017	C		5/31/2018
4500287868	CUSTOM INSIGHT LLC 750 ARROWHEAD DR CARSON CITY, NV 89706-0615 US	NYPA ON-LINE EMPLOYEE SURVEY PACKAGE	S	2	5	F	N	1		19,500	12,030	0	7,470	7/25/2017	C		7/24/2018
4500287876	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	HP ELITEDESK 800 DESKTOP MINI PC'S	E	B	7	N	04	4		25,021	25,021	0	0	7/25/2017	C		7/24/2018
4500287889	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	MAINTENANCE - SOLARWINDS	S	B	7	N	N	1		35,018	35,018	0	0	8/30/2017	C		8/29/2018
4500287991	PRESIDIO NETWORKED SOLUTIONS GROUP DBA FOR PRESIDIO HOLDINGS INC 30 STANFORD DR - STE 2 FARMINGTON, CT 06032-2453 US	CISCO TURRETS FOR THE CONTROL ROOMS	H	B	7	F	N	1		1,221,789	750,040	444,924	471,749	7/27/2017	O	7/26/2019	
4500288075	NIAGARA COATINGS SERVICES INC 8025 QUARRY RD NIAGARA FALLS, NY 14304 US	BG PAINTING OF THE MAIN DECK HATCHES	C	B		N	N	1		611,610	609,734	367,526	1,876	7/31/2017	C		7/30/2018
4500288100	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	HP SERVERS AND ACCESSORIES	E	B	7	N	04	2		20,331	20,331	0	0	8/1/2017	C		7/31/2018
4500288137	CDW COMPUTER CENTER INC CDW GOV'T SALES 200/230 N MILWAUKEE AVE VERNON HILLS, IL 60061 US	HITACHI SMART G AND T DATA LAKE BLADE SERVERS	E	B	7	N	N	3	*	56,362	56,362	56,362	0	8/28/2017	C		12/29/2018
4500288244	SHI INTERNATIONAL CORP 290 DAVIDSON AVE SOMERSET, NJ 08873-4145 US	LICENSES AND MAINTENANCE - VMWARE	S	B	7	F	N	2		226,366	226,366	0	0	8/7/2017	C		8/6/2018

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4500288258	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	SKYHIGH FOR SHADOW IT CASB	E	B	7	F	N	1		59,000	59,000	0	0	8/4/2017	C		8/3/2018
4500288269	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	SKYHIGH SHADOW IT STARTER KIT, SKYHIGH FOR OFFICE 365	P	B	6	F	N	3		14,286	14,286	0	0	8/4/2017	C		8/3/2018
4500288384	ASSETWORKS LLC DBA FOR TRAPEZE SOFTWARE GROUP INC 998 OLD EAGLE SCHOOL RD - STE 1215 WAYNE, PA 19087-1862 US	SOFTWARE UPGRADE AND TRAINING	S	B	7	F	N	1		11,066	11,057	7,057	9	8/8/2017	C		8/7/2018
4500288457	QUANTUM TECHNOLOGY SCIENCES INC STE 201 1980 N ATLANTIC AVE COCOA BEACH, FL 32931-3282 US	SUBSTATION SECURITY COVERT MONITORING SYSTEM	E	1	8	F	N	1		76,533	72,032	24,602	4,501	8/14/2017	C		12/31/2018
4500288465	SEATTLE SOFTWARE LTD TRADING AS ORBUS SOFTWARE FL 3 111 BUCKINGHAM PALACE RD LONDON, LO SW1W 05R GB	MAINTENANCE AND TRAINING - ORBUS ISERVER	S	B	7	N	N	1		38,365	38,365	0	0	8/4/2017	C		8/3/2018
4500288521	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	RM LP GSU BLAST PROTECTION PROGRAM	E	B		N	01	3		1,666,621	1,637,890	249,305	28,731	8/14/2017	O	4/30/2019	
4500288522	A & T SYSTEMS INC 12200 TECH RD - STE 200 SILVER SPRING, MD 20904-1971 US	MOBILE FIRST PROTECTION SERVICES	S	B	7	N	N	1		155,550	155,550	0	0	8/19/2017	C		8/18/2018
4500288607	LOPEZ & ASSOCIATES INC 1010 NORTHERN BLVD - STE 208 GREAT NECK, NY 11021-5320 US	CONSULTING SERVICES FOR DEVELOPMENT TESTING	P	2	5	N	N	1		125,000	44,749	37,423	80,251	8/21/2017	C		12/31/2018
4500288659	THE BABCOCK & WILCOX COMPANY 2849 STERLING DR HATFIELD, PA 19440-1956 US	PROVIDE QUALIFIED PERSONNEL CEMS AND DAHS SOFTWARE MAINTENANCE	P	1	8	F	N	1		116,570	104,520	0	12,050	8/1/2017	C		7/31/2018
4500288749	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	MAINTENANCE - NETSCOUT	S	B	6	N	04	3		15,636	15,636	0	0	6/1/2017	C		5/31/2018
4500288854	EXECUTIVE INFORMATION SYSTEMS LLC 6901 ROCKLEDGE DR STE 600 BETHESDA, MD 20827-0076 US	SAS LICENSES FOR ALLEGRO ECRM ASCEND	E	B	6	F	N	2		27,434	27,434	0	0	8/22/2017	C		1/2/2018
4500288899	SIEMENS INDUSTRY INC 10900 WAYZATA BLVD - STE 400 MINNETONKA, MN 55305-5602 US	NIAGARA SCADA SOFTWARE UPGRADE PROJECT	E	B		F	N	1		1,052,998	1,025,286	775,339	27,712	9/1/2017	C		7/31/2018
4500288932	STRATEGIC RESPONSE INITIATIVES LLC 44 DALLIBA AVE STE 204 WATERVLIET, NY 12189-4017 US	WEATHERIZATION KITS	E	B	5	N	02	3		31,585	31,462	31,462	123	8/9/2017	C		5/31/2018
4500288933	HYDRO-QUEBEC 75 RENE-LEVESQUE W - FL 15 MONTREAL, QC H2Z 1A4 CA	STUDY OF ADVANCED STABILITY CONTROLS TO COMBAT TRANSMISSION BOTTLENECKS IN HIGH PERFORMING GRID; ECONOMIC AND FEASIBILITY	P	1	8	F	N	1		650,000	315,000	315,000	335,000	8/24/2017	O	2/28/2020	
4500288994	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	UPDATED CYBER SECURITY PATCHES IN SUPPORT OF THE AUTHORITY'S NERC CIP COMPLIANCE OBLIGATIONS	P	1	8	F	N	1		89,146	89,146	0	0	8/1/2017	C		7/31/2018

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4500289056	D'ONOFRIO GENERAL CONTRACTORS CORP 202 28TH ST BROOKLYN, NY 11232-1604 US	500MW ACCESS AND PLATFORMS	C	B		N	N	3		903,354	869,296	869,296	34,058	8/31/2017	O	8/30/2019	
4500289087	XEROX CORPORATION 1654 SOLUTIONS CNTR CHICAGO, IL 60677-1006 US	MAINTENANCE - IGEN 5 EQUIPMENT	E	B	7	F	N	1		759,997	157,883	134,125	602,114	8/30/2017	O	9/26/2022	
4500289099	FEDTEK INC 12700 BLACK FOREST LN STE 202 WOODBRIDGE, VA 22192-5306 US	MAINTENANCE - WEBTRENDS	S	B	7	F	N	2		10,508	10,508	0	0	6/27/2017	C		6/26/2018
4500289127	CSC INDUSTRIAL CORPORATION CMS INDUSTRIAL EQUIPMENT COMPANY 6112 N MESSA ST #127 EL PASO, TX 79912-4516 US	FURNISH AND DELIVER THREAD PIPING MACHINE	E	C	5	F	N	4		9,180	9,178	0	2	11/30/2017	C		2/14/2018
4500289234	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	HUNTLEY WATER LEVEL GAUGE HOUSE RELO PROJECT	C	B		N	01	2		336,517	282,140	142,455	54,377	9/1/2017	C		8/31/2018
4500289244	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	SOFTWARE FOR SECURITY ENHANCEMENT	E	B	7	N	04	3		16,355	16,355	0	0	9/5/2017	C		9/4/2018
4500289278	D A COLLINS CONSTRUCTION CO INC 269 BALLARD RD WILTON, NY 12831-1357 US	BG ERECTION BAY CONCRETE REPAIR	C	B		N	N	1		101,500	101,500	8,000	0	9/20/2017	C		9/19/2018
4500289294	BOLTTECH MANNINGS INC 321 RICHARD MINE RD - STE 300 WHARTON, NJ 07885-1838 US	STL - GENERATOR SOPIDER ROTOR PWHT	S	B		F	N	2		196,658	53,885	53,885	142,773	9/8/2017	O	9/7/2021	
4500289328	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	CISCO EQUIPMENT	E	B	5	N	04	3		18,540	18,540	0	0	9/7/2017	C		9/8/2018
4500289386	OPEN TEXT INC 951 MARINERS ISLAND BLVD - FL 7 SAN MATEO, CA 94404-1561 US	OPEN TEXT OPTIMIZE ASSIST PROGRAM	S	2	6	N	N	1		11,000	11,000	11,000	0	11/20/2017	C		11/19/2018
4500289413	BIDCO MARINE GROUP INC 220 KATHERINE ST BUFFALO, NY 14210-2008 US	BG DREDGING OF INTAKE TO THE LOW LEVEL OUTLET	C	B		N	01	3		662,820	662,590	229,760	230	9/11/2017	C		9/29/2018
4500289419	NRC NY ENVIRONMENTAL SERVICES INC 6392 DEERE RD - STE 1 SYRACUSE, NY 13206-1323 US	ABATEMENT AND PAINTING OF THE STL ROTOR SPIDER	C	B		N	N	2		422,094	142,720	142,720	279,374	9/12/2017	O	9/11/2021	
4500289422	V R D CORPORATE INTERIORS DBA FOR V R D CONTRACTING INC 25 ANDREA RD HOLBROOK, NY 11741-4310 US	FURNITURE	E	B	7	N	03	1		11,728	11,728	0	0	9/11/2017	C		9/10/2018
4500289614	SHI INTERNATIONAL CORP 290 DAVIDSON AVE SOMERSET, NJ 08873-4145 US	PURCHASE LICENSES AND SOFTWARE UPGRADE FROM MESSAGESTATS TO UNIFIED COMMAND SUITE	E	B	6	N	N	4		7,398	7,398	7,398	0	9/15/2017	C		9/14/2018
4500289634	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	EQUIPMENT FOR THE INTEGRATED SMART OPERATION CENTER (ISOC)	E	B	5	N	04	4		8,628	8,628	0	0	9/15/2017	C		9/14/2018
4500289645	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	LOGITECH MICE AND KEYBOARDS	E	B	5	N	04	12		10,209	10,209	0	0	9/15/2017	C		9/14/2018

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4500289646	REGIMENT TECHNOLOGY GROUP LLC 81 PONDFIELD RD - STE D279 BRONXVILLE, NY 10708-3818 US	MAINTENANCE - NASTEL SOFTWARE	S	2	6	N	02	1		35,924	35,924	0	0	9/30/2017	C		9/29/2018
4500289684	STEPHEN S STARR MECHANICAL CORP 11006 BELL HILL RD UTICA, NY 13502-6602 US	AC SYSTEM UPGRADE - CSC BUILDING INVERTER HALL	C	B	8	N	N	1		183,365	183,160	183,160	205	9/20/2017	C		9/19/2018
4500289808	ASCENTTRA LLC 8300 BOONE BLVD STE 500 VIENNA, VA 22182-2681 US	NIAGARA TABLETOP EXERCISE SUPPORT	P	B		F	N	12		59,500	59,500	50,575	0	9/20/2017	C		6/30/2018
4500289858	TOFFLER ASSOCIATES INC 1775 WIEHLE AVE STE 250 RESTON, VA 20190-5161 US	TOFFLER CROSS INDUSTRY EXERCISE/WORKSHOP	P	2	9	F	N	1		40,000	0	0	40,000	9/22/2017	C		9/21/2018
4500289879	IVANTI INC 698 W 10000 S STE 210 SOUTH JORDAN, UT 84095-4063 US	MAINTENANCE - HEAT LUMENSION	E	C	5	F	N	4		15,463	15,463	0	0	7/29/2017	C		7/28/2018
4500289932	N SPRO LLC 1014 THOMPSON BLVD SEDALIA, MO 65301-2243 US	SUCCESSFACTORS IMPLEMENTATION SERVICES	P	B		F	N	6		1,684,745	1,054,894	1,044,699	629,851	9/27/2017	O	9/26/2022	
4500289979	MARK A REEDER 17 TERRACE AVE ALBANY, NY 12203-1916 US	NY PUBLIC SERVICE COMMISSION RATE CONSULTANT	P	2	5	N	N	1		25,000	7,321	1,430	17,679	9/26/2017	C		3/30/2018
4500290004	RENE D PETRIN MANAGEMENT MENTORS INC 111 NONANTUM ST BRIGHTON, MA 02135-2413 US	MENTORING PROGRAM	P	B		N	N	2		91,000	19,771	19,771	71,229	11/1/2017	O	10/31/2022	
4500290006	G S DUNHAM LLC 25-70 ULMER ST FLUSHING, NY 11354-1137 US	FURNISH, DELIVER, START UP AND CALIBRATION OF A HEAT EXCHANGER ASSEMBLY AND WARRANTY 1 + 5 YEARS (6 YEARS)	E	2		N	N	1		160,000	144,100	144,100	15,900	9/27/2017	C		9/26/2018
4500290056	NIAGARA ARTS & CULTURAL CENTER INC 1201 PINE AVE NIAGARA FALLS, NY 14301-1917 US	INSTALLATION OF TERRAIN MAP AT THE NIAGARA ARTS AND CULTURAL CENTER	C	1	8	N	N	1		175,000	0	0	175,000	9/27/2017	C		9/26/2018
4500290080	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	HIGH VOLTAGE CIRCUIT BREAKERS FOR MULTIPLE SITES	E	B		F	N	4		12,236,787	0	0	12,236,787	9/29/2017	O	9/28/2027	
4500290135	SOVOS COMPLIANCE LLC 200 BALLARDVALE ST WILMINGTON, MA 01887-1074 US	ACA TAX REPORTING SERVICES	P	B		F	N	4		122,977	24,595	0	98,382	10/1/2017	O	3/31/2022	
4500290151	EX LIBRIS (USA) INC 1350 E TOUHY AVE - STE 200E DES PLAINES, IL 60018-3307 US	MAINTENANCE - VOYAGER	S	B	7	N	N	1		14,254	14,254	0	0	9/29/2017	C		3/31/2018
4500290166	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	MAINTENANCE - AUTODESK	S	B	7	N	N	1		66,632	66,632	0	0	10/28/2017	C		10/27/2018
4500290218	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	CISCO TELEPHONES	H	B	7	F	04	4		141,526	141,526	141,526	0	10/2/2017	C		2/20/2018
4500290286	KLEINSCHMIDT ASSOCIATES PA PC PO BOX 650 PITTSFIELD, ME 04967-0650 US	TAINTER GATE ASSESSMENT	A	B	5	N	N	1		58,300	37,431	37,431	20,869	10/4/2017	C		3/31/2018

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4500290419	SITECORE USA INC 2320 MARINSHIP WAY SAUSALITO, CA 94965-2812 US	MAINTENANCE - SITECORE CONTENT MANAGEMENT SYSTEM	S	2	6	N	N	1		42,627	42,627	0	0	6/29/2017	C		6/28/2018
4500290420	SITECORE USA INC 2320 MARINSHIP WAY SAUSALITO, CA 94965-2812 US	MAINTENANCE - MONGODB	S	2	6	N	N	1		15,750	15,750	0	0	6/24/2017	C		6/23/2018
4500290464	HATCH ASSOCIATES CONSULTANTS INC 100 SYLVAN PKWY AMHERST, NY 14228-1146 US	MAINTENANCE - HATCH VISTA DSS	S	1	6	N	N	1		25,000	25,000	0	0	9/1/2017	C		8/31/2018
4500290529	DOCPOINT SOLUTIONS LLC 8161 MAPLE LAWN BLVD - LOWER FL 2 FULTON, MD 20759-2597 US	MAINTENANCE - NINTEX	S	B	7	N	N	1		24,605	24,605	0	0	10/10/2017	C		10/9/2018
4500290644	COMMUNICATIONS TRAINING ANALYSIS CORPORATION 3120 FAIRVIEW PARK DR STE 600 FALLS CHURCH, VA 22042-4571 US	AMAZON WEB SERVICES	S	B	7	N	N	1		35,511	35,511	0	0	11/13/2017	C		11/12/2018
4500290658	VARIDESK LLC PO BOX 3588 COPPELL, TX 75019-9588 US	VARI-DESK TOPS FOR TRADING ROOMS	E	C	6	F	N	2		8,384	8,384	8,028	0	10/16/2017	C		2/14/2018
4500290725	JOHNSON CONTROLS INC 130 JOHN MUIR DR - STE 100 AMHERST, NY 14228-1139 US	INSTALLATION OF THE QUANTUM TECHNOLOGY SCIENCES VECTOR SERIES SEISMIC-ACOUSTIC SENSOR SYSTEM	C	2	8	N	N	1		98,025	77,681	77,681	20,344	10/17/2017	C		10/16/2018
4500290789	ALIANZA SERVICES LLC 74 N BROADWAY - 2ND FL SOUTH NYACK, NY 10960-2628 US	FURNITURE	E	B	7	N	04	1		15,703	15,703	0	0	10/18/2017	C		6/30/2018
4500290894	TRC ENGINEERS INC 215 GREENFIELD PKWY - STE 102 LIVERPOOL, NY 13088-6651 US	MICROWAVE UPGRADE PROJECT	E	B		F	N	4		2,880,962	2,228,580	2,228,580	652,382	11/22/2017	O	10/24/2019	
4500290922	AERYON LABS INC 575 KUMPF DR WATERLOO, ON N2V 1K3 CA	SUAS - SMALL UNMANNED AIRCRAFT SYSTEM	E	B		F	N	4		124,568	124,568	0	0	10/24/2017	C		4/30/2018
4500290959	WINSHUTTLE LLC 19820 N CREEK PARKWAY STE 200 BOTHELL, WA 98011-8227 US	MAINTENANCE - WINSHUTTLE	S	2	6	N	N	1		11,940	11,940	0	0	10/22/2017	C		10/21/2018
4500291014	ESS GROUP INC 10 HEMINGWAY DR - FL 2 RIVERSIDE, RI 02915-2224 US	LI SOUND TRANSMISSION CONSULTING	P	B	1	F	N	14		266,650	244,853	244,853	21,797	11/1/2017	C		7/31/2018
4500291015	REGIMENT TECHNOLOGY GROUP LLC 81 PONDFIELD RD - STE D279 BRONXVILLE, NY 10708-3818 US	VMWARE CONSULTING AND LEARNING PSO CREDITS PREPAID SERVICES	S	B	7	N	02	2		86,624	86,624	0	0	11/1/2017	C		10/31/2018
4500291105	MARS DISCOVERY DISTRICT 101 COLLEGE ST - STE 401 TORONTO, ON M5G 1L7 CA	NEWTONIAN SHIFT WORKSHOPS	P	1	8	F	N	1		95,000	41,000	41,000	54,000	10/31/2017	C		6/30/2018
4500291128	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	CISCO EQUIPMENT UPGRADE	E	B	7	N	04	4		94,680	94,680	94,680	0	11/15/2017	C		11/14/2018
4500291154	HERMAN MILLER INC C/O ACCENT COMM FURNITURE INC 855 E MAIN AVE ZEELAND, MI 49464-1372 US	FURNITURE	E	B	7	F	N	1		8,911	8,911	8,911	0	10/31/2017	C		6/29/2018

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4500291167	HARTIGEN SOLUTIONS LLC 3100 S GESSNER RD STE 329 HOUSTON, TX 77063-3743 US	BID TO BILLING AND GENERATION BIDDING SOLUTION	S	B		F	N	5		2,417,800	1,179,834	1,074,902	1,237,966	11/6/2017	O	11/5/2022	
4500291214	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	MAINTENANCE - NETBRAIN	E	B	5	N	04	3		10,100	10,100	0	0	8/17/2017	C		8/16/2018
4500291227	RTDS TECHNOLOGIES INC 100-150 INNOVATION DR WINNIPEG, MB R3T 2E1 CA	RTDS EQUIPMENT FOR THE CSC DIGITAL MODEL DEVELOPMENT	E	1	8	F	N	1		214,310	214,310	70,485	0	11/1/2017	C		12/31/2018
4500291300	DEVELOPMENT AUTHORITY OF THE NORTH COUNTRY 317 WASHINGTON ST WATERTOWN, NY 13601 US	COMMUNICATION BACKBONE PROGRAM - DARK FIBER	A	B		N	N	1		1,916,755	771,566	771,566	1,145,189	11/21/2017	C		11/20/2018
4500291319	WESPIRE INC 180 LINCOLN ST STE 3 BOSTON, MA 02111-2400 US	WESPIRE SAAS EMPLOYEE ENGAGEMENT PLATFORM	S	2	6	F	N	1		20,000	20,000	20,000	0	11/6/2017	C		2/23/2018
4500291329	HP INC 1501 PAGE MILL RD PALO ALTO, CA 94304-1126 US	HP ELITEBOOK LAPTOPS WITH CARRYING CASES AND MAINTENANCE	H	B	7	F	N	1		467,436	467,433	465,033	3	11/5/2017	C		1/3/2018
4500291378	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	QUEST UTILITY TOOLS SOFTWARE	E	B	7	N	N	1		60,189	60,189	0	0	10/31/2017	C		10/30/2018
4500291434	FEDRESULTS INC 1900 CAMPUS COMMONS DR - STE 100 RESTON, VA 20191-1535 US	TABLEAU SOFTWARE	I	B	7	F	N	1		99,205	99,205	0	0	11/7/2017	C		11/6/2018
4500291464	RICOH USA INC 2500 WESTCHESTER AVE - STE 113 PURCHASE, NY 10577-2515 US	RICOH MPC4504EX MULTI-FUNCTION DEVICE	E	B	7	N	N	1		8,410	8,410	8,410	0	11/8/2017	C		3/9/2018
4500291538	OPEN TEXT INC 951 MARINERS ISLAND BLVD - FL 7 SAN MATEO, CA 94404-1561 US	MAINTENANCE - OPENTEXT SAP SOLUTIONS	S	B	7	N	N	1		17,015	17,015	0	0	12/1/2017	C		11/30/2018
4500291539	DRS IMAGING SERVICES INC 43 FADEM RD SPRINGFIELD, NJ 07081-3115 US	MICROFORM SCANNER WITH MAINTENANCE	H	B	7	F	N	1		28,895	28,895	28,895	0	11/25/2017	C		1/12/2018
4500291596	KEMCO INDUSTRIES LLC 70 KEYES CT SANFORD, FL 32773 US	NIA RELAY REPLACEMENT PARTS	E	B	8	F	N	2		922,747	842,865	842,865	79,882	11/13/2017	O	11/12/2020	
4500291683	ORACLE AMERICA INC 500 ORACLE PKWY REDWOOD CITY, CA 94065-1677 US	LICENSES AND MAINTENANCE - ORACLE PRIMAVERA	I	B	7	F	N	1		85,187	85,186	15,361	1	11/20/2017	C		11/19/2018
4500291709	WEWORK COMPANIES INC 575 5TH AVENUE TENANT LLC 115 W 18TH ST FL 5 NEW YORK, NY 10011-4113 US	SIX MONTHS RENTAL SPACE IN NYC	E	2	9	N	N	1		565,646	289,331	138,185	276,315	11/22/2017	O	4/30/2020	
4500291738	O'CONNELL ELECTRIC CO 830 PHILLIPS RD VICTOR, NY 14564 US	MASSENA SUBSTATION GENERATOR STEEL PLATFORMS AND CONTAINMENT IMPROVEMENTS	C	B		N	N	2		213,397	194,388	194,388	19,009	11/16/2017	C		11/15/2018
4500291743	V R D CORPORATE INTERIORS DBA FOR V R D CONTRACTING INC 25 ANDREA RD HOLBROOK, NY 11741-4310 US	FURNITURE	E	B	5	N	03	1		13,415	13,415	13,415	0	11/16/2017	C		2/28/2018

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4500291779	TOFFLER ASSOCIATES INC 1775 WIEHLE AVE STE 250 RESTON, VA 20190-5161 US	BUSINESS RESILIENCY STRESS TESTING SERVICES	P	B		F	N	4		294,286	271,716	270,883	22,570	11/20/2017	C		11/19/2018
4500291789	XEROX CORPORATION 1654 SOLUTIONS CNTR CHICAGO, IL 60677-1006 US	BORG BOOKLET MAKER	E	1	8	F	N	1		16,849	9,829	9,829	7,020	10/1/2017	C		9/30/2018
4500291806	SS & C TECHNOLOGIES INC 80 LAMBERTON RD - STE 7 WINDSOR, CT 06095-2150 US	MAINTENANCE - FINANCE DATABASES	S	2	6	N	N	1		12,480	12,480	0	0	12/17/2017	C		12/16/2018
4500291807	RESOLVER INC 111 PETER ST STE 804 TORONTO, ON M5V 2H1 CA	MAINTENANCE - BPS RESOLVER	S	1	6	N	N	1		10,000	10,000	0	0	1/1/2018	C		12/31/2018
4500291808	SYSTEM IMPROVEMENTS INC 238 S PETERS RD - STE 301 KNOXVILLE, TN 37923-5224 US	MAINTENANCE - TAPROOT	S	1	6	N	N	1		6,899	6,899	6,899	0	12/1/2017	C		11/30/2018
4500291809	POWERRUNNER LLC 145 SOUTH RD BRENTWOOD, NH 03833-6301 US	LABOR-ENHANCEMENTS-LONG TERM MARKET-	P	1	6	N	N	1		9,000	9,000	9,000	0	12/4/2017	C		3/9/2018
4500291810	POWERRUNNER LLC 145 SOUTH RD BRENTWOOD, NH 03833-6301 US	MAINTENANCE - POWERRUNNER MANAGED SERVICES	S	1	8	N	N	1		65,000	65,000	65,000	0	12/1/2017	C		11/30/2018
4500291811	HP INC 1501 PAGE MILL RD PALO ALTO, CA 94304-1126 US	HP ELITEDESK 800-DESKTOP SUPPORT	H	B	7	F	N	1		339,894	339,894	339,894	0	11/18/2017	C		1/23/2018
4500291827	ADVANTAGE PROMOTIONS DBA FOR DEBORAH S BEZA 12 LILAC LN QUEENSBURY, NY 12804-8419 US	NON-CONDUCTIVE AND NON-ABSORBENT MATERIAL CLOTHING TO SUPPORT NYPA EMPLOYEES	E	2	8	N	03	1		50,000	41,344	33,266	8,656	11/21/2017	C		11/21/2018
4500291841	MACRO COMPANIES INC EMERGENCY FUEL MANAGEMENT 101 MILLSTONE RD BROUSSARD, LA 70518-4234 US	FUEL SERVICES FOR NYPA	E	C	8	F	N	2		4,000,000	3,947,282	3,947,282	52,718	11/22/2017	C		5/27/2018
4500291850	MICROCAD TRAINING & CONSULTING INC 77 ARKAY DR STE B1 HAUPPAUGE, NY 11788-3700 US	HP PLOTTER FOR NIA	H	B	7	N	04	1		62,959	62,959	62,959	0	11/30/2017	C		2/15/2018
4500291851	ADVANTECH CORP 24 JUST RD FAIRFIELD, NJ 07004-3413 US	HUMAN MACHINE INTERFACE (HMI) UPGRADE	H	1	8	F	N	1		107,385	107,385	107,385	0	11/20/2017	O	11/19/2020	
4500291912	PKA TECHNOLOGIES INC 1 EXECTIVE BLVD - STE 203 SUFFERN, NY 10901-4156 US	HP BLC MODULE	H	B	7	F	03	4		31,605	31,605	31,605	0	11/21/2017	C		1/19/2018
4500291947	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	MAINTENANCE - SOLARWINDS	S	B	7	N	N	1		17,404	17,404	17,404	0	12/30/2017	C		1/11/2018
4500291996	PROFTECH LLC 200 CLEARBROOK RD - STE 177 ELMSFORD, NY 10523-1328 US	FURNITURE	E	B	8	F	04	1		11,171	11,171	11,171	0	11/27/2017	C		3/26/2018
4500292057	J & J HEATING & FUEL OIL CORP 742 WHITTIER ST BRONX, NY 10474-6004 US	FUEL	E	M	9	N	04	1		12,048	8,188	8,188	3,860	11/28/2017	C		3/30/2018
4500292060	METHOD LIMITED 24 BLAIR ST LVL 1 TE ARO, WLG 6011 NZ	SUSTAINABLE WASTE COLLECTION BINS	E	2	8	F	N	1		125,492	125,492	62,746	0	11/28/2017	C		2/28/2018

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4500292149	HEALTH LOGISTICS RN AND NP ADULT PASSPORT HEALTH OF NEW YORK STATE 2805 WEHRLE DR STE 2 WILLIAMSVILLE, NY 14221-7383 US	VACCINATIONS	S	2	5	N	N	1		12,331	12,331	12,331	0	11/30/2017	C		2/14/2018
4500292169	ANSYS INC 2600 ANSYS DR CANONSBURG, PA 15317-0404 US	ANSYS LS-DYNA LEASE	S	B	7	N	N	1		5,509	5,509	5,509	0	10/25/2017	C		1/2/2018
4500292170	ANSYS INC 2600 ANSYS DR CANONSBURG, PA 15317-0404 US	ANSYS MECHANICAL ENTERPRISE LEASE	S	2	5	N	N	1		13,605	13,605	13,605	0	12/1/2017	C		1/2/2018
4500292187	W B MASON CO INC 59 CENTRE ST - PO BOX 111 BROCKTON, MA 02303-0111 US	RECYCLED COPIER PAPER	E	B	7	N	N	1		27,002	16,337	16,337	10,665	12/1/2017	C		12/31/2018
4500292234	ADIRONDACK RECORDS MANAGEMENT INC 45 LEARNED ST ALBANY, NY 12207-5051 US	TRANSFER AND STORAGE WAREHOUSING OF HARD COPY RECORDS FROM THE CANAL'S ALBANY STORAGE LOCATION TO OFFSITE STORAGE FACILITY	E	B		N	N	3		35,840	2,384	2,384	33,456	12/1/2017	O	11/30/2022	
4500292239	ENTERPRISE TECHNOLOGY SOLUTIONS INC 323 W HUNTER LN FREMONT, CA 94539-6308 US	CLOUDERA SUBSCRIPTION AND REDHAT SOFTWARE MAINTENANCE	E	B	7	N	N	3		54,815	54,815	54,815	0	12/8/2017	C		12/7/2018
4500292283	ENOSERV A DIV OF DOBLE ENGINEERING CO 7780 E 106TH ST TULSA, OK 74133-6843 US	MAINTENANCE - ENOSERV SOFTWARE	S	2	6	N	N	1		17,276	17,276	17,276	0	6/1/2017	C		5/31/2018
4500292303	INDIGO ADVISORY GROUP LLC DBA FOR DAVID GROARKE 6537 MAURICE AVE APT 1 WOODSIDE, NY 11377-5801 US	NY JOINT UTILITIES BLOCKCHAIN ALIGNMENT WORKSHOPS	P	2	9	N	N	1		50,000	50,000	50,000	0	12/7/2017	C		3/30/2018
4500292304	BLUECIELO ECM SOLUTIONS INC 411 EAGLEVIEW BLVD STE 109 EXTON, PA 19341-1167 US	MAINTENANCE - MERIDIAN	S	2	1	N	N	1		138,396	138,396	138,396	0	1/1/2018	C		12/31/2018
4500292327	CITY OF WHITE PLAINS DEPT OF PARKING 7-11 S BROADWAY WHITE PLAINS, NY 10601-3520 US	PARKING PERMITS	E	2	8	N	N	1		99,550	93,760	70,310	5,790	12/6/2017	C		11/13/2018
4500292345	KIDS X-PRESS INC C/O YUVAL MARCUS LEASON ELLIS LLP 1 BARKER AVE FL 5 WHITE PLAINS, NY 10601-1523 US	EDUCATIONAL SERVICES AND MATERIALS	S	2	3	N	01	1		41,578	0	0	41,578	1/1/2018	C		12/31/2018
4500292429	PKA TECHNOLOGIES INC 1 EXECTIVE BLVD - STE 203 SUFFERN, NY 10901-4156 US	HP ELITEBOOK 800 G3 WITH MAINTENANCE DESKTOPS	H	B	7	F	03	8		26,032	26,032	26,032	0	12/8/2017	C		4/24/2018
4500292465	CROWLEY PUERTO RICO SERVICES INC 9487 REGENCY SQUARE BLVD JACKSONVILLE, FL 32225-8183 US	TRANSPORTING RESTORATION EQUIPMENT	E	2	8	F	N	5		2,500,000	1,957,216	1,957,216	542,784	12/11/2017	C		12/31/2018
4500292471	SHI INTERNATIONAL CORP 290 DAVIDSON AVE SOMERSET, NJ 08873-4145 US	MAINTENANCE - TABLEAU	E	B	5	F	N	1		15,200	15,200	15,200	0	11/4/2017	C		11/3/2018
4500292589	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	HP SERVERS	E	B	7	N	04	3		101,412	101,412	101,412	0	12/13/2017	C		12/12/2018

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4500292619	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	HP EQUIPMENT UPGRADE	E	B	7	N	04	3		84,305	84,305	84,305	0	12/14/2017	C		12/31/2018
4500292628	SS & C TECHNOLOGIES INC 80 LAMBERTON RD - STE 7 WINDSOR, CT 06095-2150 US	LICENSES AND MAINTENANCE - PORTIA	S	2	1	N	N	1		76,332	76,332	76,332	0	1/1/2018	C		1/8/2018
4500292629	GRID ADVISERS INC 120 GRANDPAS RDG SHARPS CHAPEL, TN 37866-3786 US	CONSULTING ON TRANSMISSION PROPOSALS	P	2	8	F	N	1		25,000	17,500	17,500	7,500	12/14/2017	C		6/30/2018
4500292656	AKAMAI TECHNOLOGIES INC 150 BORADWAY - STE 100 CAMBRIDGE, MA 02142-1055 US	AKAMAI INTERNET RENEWAL	S	B	7	N	N	1		101,660	101,660	84,717	0	11/21/2017	C		10/1/2018
4500292664	ANSYS INC 2600 ANSYS DR CANONSBURG, PA 15317-0404 US	MAINTENANCE - ANSYS	S	B	7	N	N	1		17,630	17,630	17,630	0	1/1/2018	C		12/31/2018
4500292692	ORACLE AMERICA INC 500 ORACLE PKWY REDWOOD CITY, CA 94065-1677 US	MAINTENANCE - ORACLE PRIMAVERA	E	2	8	F	N	1		86,474	64,855	64,855	21,619	12/31/2017	C		12/30/2018
4500292709	FORRESTER RESEARCH INC 60 ACORN PARK DR CAMBRIDGE, MA 02140-2303 US	CUSTOMER CENTRIC TRAINING	S	B	7	F	N	1		15,727	14,727	14,727	1,000	12/18/2017	C		12/17/2018
4500292772	CHA CONSULTING INC III WINNERS CIRCLE ALBANY, NY 12205-0269 US	DESIGN SERVICES FOR STL STATION SVC UPGRADES AND LONG SAULT DAM MCC REPLACEMENT PROJECTS	A	2	8	N	N	1		500,000	335,939	335,939	164,061	1/1/2018	O	12/31/2019	
4500292775	GEXPRO DBA REXEL USA INC 1776 NEW HWY FARMINGDALE, NY 11735-1513 US	LIGHTING CONTROL AND HVAC RETROFIT INSTALLATION	E	C	6	N	N	3		17,200	17,200	17,200	0	12/20/2017	C		12/31/2018
4500292813	DELOITTE CONSULTING LLP 30 ROCKEFLLER PLAZA NEW YORK, NY 10112-0015 US	EMPLOYER VALUE BRAND SERVICES	P	2	8	N	N	1		890,000	596,661	596,661	293,339	12/21/2017	C		12/20/2018
4500292838	SHI INTERNATIONAL CORP 290 DAVIDSON AVE SOMERSET, NJ 08873-4145 US	ACRONIS BACKUP ADVANCED UNIVERSAL LICENSE AND WORKSTATION LICENSE ANNUAL MAINTENANCE LICENSE RENEWAL	E	B	7	F	N	1		16,491	16,491	16,491	0	12/27/2017	C		12/26/2018
4500292865	ENTERPRISE TECHNOLOGY SOLUTIONS INC 323 W HUNTER LN FREMONT, CA 94539-6308 US	NIKON HB-40 CAMERA EQUIPMENT	E	B	5	F	N	3		6,697	6,697	6,697	0	12/21/2017	C		12/20/2018
4500292866	REGIMENT TECHNOLOGY GROUP LLC 81 PONDFIELD RD - STE D279 BRONXVILLE, NY 10708-3818 US	DENODO SERVER LICENSE AND SERVICE	S	B	7	N	02	1		132,800	132,800	0	0	12/21/2017	C		12/20/2018
4500292867	IMAGE ACCESS LP 2511 TECHNOLOGY DR STE 109 ELGIN, IL 60124-8945 US	WIDE FORMAT SCANNER	E	B	7	N	N	1		15,380	15,380	15,380	0	12/31/2017	C		12/30/2018
4500292869	SAP PUBLIC SERVICES INC RONALD REAGAN BLDG / ITC 1300 PENNSYLVANIA AVE NE - STE 600 WASHINGTON, DC 20004 US	SAP TECHNICAL RESOURCE FOR SUCCESSFACTORS RECRUITMENT MARKETING SUPPORT	P	1	6	F	N	1		38,775	27,325	27,325	11,450	12/22/2017	C		12/21/2018
4500292870	ALIANZA SERVICES LLC 74 N BROADWAY - 2ND FL SOUTH NYACK, NY 10960-2628 US	FURNITURE	E	B	7	N	04	1		16,343	16,343	16,343	0	12/22/2017	C		6/30/2018

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4500292871	SAP PUBLIC SERVICES INC RONALD REAGAN BLDG / ITC 1300 PENNSYLVANIA AVE NE - STE 600 WASHINGTON, DC 20004 US	SAP SUCCESSFACTORS SUPPORT TESTING AND PRODUCTION	P	1	6	F	N	1		16,650	0	0	16,650	12/22/2017	C		12/21/2018
4500292873	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	MAINTENANCE - SAP	S	B	7	N	N	1		591,116	591,116	591,116	0	1/1/2018	C		1/22/2018
4500292874	GRAVITY PRO CONSULTING LLC SYLVANA COCHE 21 VIA LAMPARA SAN CLEMENTE, CA 92673-7054 US	SAP LICENSES TRUE UP	S	B	7	N	03	3		378,678	378,678	378,678	0	1/1/2018	C		1/3/2018
4500292876	ARIBA INC 910 HERMOSA CT SUNNYVALE, CA 94085-4199 US	ARIBA SOURCING SOFTWARE AND HOSTING	S	B	7	N	N	1		243,888	243,888	243,888	0	1/1/2018	C		12/31/2018
4500292953	CANON SOLUTIONS AMERICA INC 125 PARK AVE FRNT 2 NEW YORK, NY 10017-5599 US	MAINTENANCE - CANON COLORWAVE	S	B	7	N	N	1		14,847	0	0	14,847	9/1/2017	C		8/31/2018
4500292956	PITNEY BOWES INC 120 BLOOMINGDALE RD WHITE PLAINS, NY 10605-1500 US	LEASE OF PITNEY BOWES PRINTER, 60 MONTHS	S	B	7	N	N	1		61,361	6,136	6,136	55,225	12/28/2018	O	12/27/2022	
4500292975	ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE INC 380 NEW YORK ST REDLANDS, CA 92373-8100 US	MAINTENANCE - ARCGIS	E	B	7	N	N	1		45,426	45,426	45,426	0	1/1/2018	C		12/31/2018
4500292998	GOTHAM GOVERNMENT SOLUTIONS LLC 1 PARAGON DR STE 200 MONTVALE, NJ 07645-1728 US	SUBSCRIPTION AND MAINTENANCE - VARONIS	S	B	7	N	N	1		39,325	39,325	39,325	0	12/30/2017	C		12/29/2018
4500292999	CANON SOLUTIONS AMERICA INC 125 PARK AVE FRNT 2 NEW YORK, NY 10017-5599 US	MAINTENANCE - OCE COLORWAVE 650 AND TCS SCANNER	S	B	7	N	N	1		14,847	14,847	14,847	0	9/1/2017	C		8/31/2018
4500293005	FEDRESULTS INC 1900 CAMPUS COMMONS DR - STE 100 RESTON, VA 20191-1535 US	TABLEAU SOFTWARE TRAINING	S	B	7	N	N	1		18,638	15,825	15,825	2,813	12/29/2017	C		12/28/2018
4500293017	NYS DIV OF HOMELAND SECURITY AND EMERGENCY SERVICES STE 710 1220 WASHINGTON AVE - BLDG ALBANY, NY 12226-1799 US	ANNUAL FIRE SAFETY INSPECTION AND SERVICES	P	2			N	N	10		80,000	0	0	80,000	1/1/2018	O	12/31/2022	
4500293088	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	HP ZBOOK WORKSTATION AND HP PROBOOK NOTEBOOK	H	B	7	F	04	3		9,776	9,776	9,776	0	1/3/2018	C		5/8/2018
4500293213	ROADRUNNER PRODUCTION SERVICES INC 56 SPY HILL POUGHKEEPSIE, NY 12603-2521 US	ROAD RUNNER VIDEO/LIGHTING EQUIPMENT	P	2	5	N	N	1		13,065	13,065	13,065	0	12/1/2017	C		1/31/2018
4500293237	SYN-TECH SYSTEMS INC PO BOX 5258 TALLAHASSEE, FL 32314 US	MAINTENANCE - FUELMASTER	S	B	6	N	N	1		5,875	5,875	5,875	0	1/1/2018	C		12/31/2018

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4500293260	ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE INC 380 NEW YORK ST REDLANDS, CA 92373-8100 US	ARCGIS SOFTWARE	S	B	7	N	N	1		17,500	17,021	17,021	479	1/31/2018	O	1/30/2019	
4500293278	SVI SERVICES INC 1062 LAGUNA CREEK LN PLEASANTON, CA 94566-3439 US	LOGISTICAL SERVICES IN SUPPORT OF PUERTO RICO ELECTRIC POWER	P	2	8	F	04	1		144,001	60,000	60,000	84,001	1/12/2018	C		12/31/2018
4500293287	WEST MONROE PARTNERS LLC 222 WEST ADAMS STREET 11TH FLOOR CHICAGO, IL 60606-5235 US	CUSTOMER DIGITAL EXPERIENCE STRATEGY	P	B		N	N	15		431,250	387,825	387,825	43,425	1/10/2018	C		12/31/2018
4500293295	GOODMART LIGHTING AND ELECTRICAL SUPPLY 232 MADISON AVE FL 3 NEW YORK, NY 10016-2953 US	LED EMERGENCY BATTERY BACKUP LIGHT FIXTURES	E	C	6	N	N	2		6,343	6,343	6,343	0	1/10/2018	C		8/30/2018
4500293302	AAA CARTING & RUBBISH REMOVAL INC 480 FURNACE DOCK RD CORTLANDT MANOR, NY 10567-6202 US	RUBBISH REMOVAL	S	B	7	N	N	2		15,000	8,492	8,492	6,508	2/1/2018	O	1/13/2019	
4500293304	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	HP PROBOOK 640 WITH ACCESSORIES AND MAINTENANCE	H	B	7	F	04	4		48,550	48,550	48,550	0	1/10/2018	C		1/30/2018
4500293321	HYDRO EXPERTISE USA LLC HYDRO EXPERTISE USA 145 PINE HAVEN SHORES RD STE 3099 SHELBURNE, VT 05482-7816 US	STL ROTOR MODIFICATION FOR STRESS REDISTRIBUTION	A	2	8	N	N	1		75,625	35,438	35,438	40,187	1/12/2018	C		12/18/2018
4500293322	PKA TECHNOLOGIES INC 1 EXECTIVE BLVD - STE 203 SUFFERN, NY 10901-4156 US	HP PROBOOK NOTEBOOK WITH ACCESSORIES AND MAINTENANCE	H	B	7	F	03	4		39,117	39,117	39,117	0	1/10/2018	C		2/6/2018
4500293350	B & H PHOTO VIDEO DBA FOR B&H FOTO & ELECTRONICS CORP 420 9TH AVE NEW YORK, NY 10001-1644 US	PHOTO EQUIPMENT FOR REGULATORY AFFAIRS	E	B	5	N	N	2		27,329	26,960	26,960	369	1/11/2018	O	1/9/2019	
4500293420	GEOTEK HOLDINGS INC GEOTEK 1421 2ND AVE NW STEWARTVILLE, MN 55976-1615 US	STL: 230KV COMPOSITE CROSSARM ASSEMBLY	E	B		F	N	2		38,820	0	0	38,820	2/5/2018	C		6/30/2018
4500293427	S & L ELECTRIC INC 5313 STATE HIGHWAY 56 COLTON, NY 13625 US	STL-LSD 13.8 KV CABLE REPLACEMENT PROJECT	C	C	1	N	N	2		985,000	892,527	892,527	92,473	1/15/2018	O	1/14/2019	
4500293428	KEPWARE INC 400 CONGRESS ST - FL 4 YARMOUTH, ME 04096 US	MODBUS SOFTWARE SUITE WITH SUPPORT	S	1	6	N	N	1		10,848	0	0	10,848	1/12/2018	O	1/11/2019	
4500293430	EMERGENCY MANAGEMENT SVC INT INC EMSI 471 JAMES MADISON HWY STE 203 CULPEPER, VA 22701-2364 US	PR EMERGENCY IMT SUPPORT	S	B	7	F	N	1		1,000,000	706,169	706,169	293,831	1/12/2018	C		5/31/2018
4500293506	ROCKY MOUNTAIN INSTITUTE CARBON WAR ROOM 2490 JUNCTION PL STE 200 BOULDER, CO 80301-2167 US	ELECTRIC VEHICLE WORKING GROUP CONSULTANT	P	2	8	F	N	1		71,365	65,996	65,996	5,369	2/5/2018	C		6/30/2018

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4500293510	GENERAL ELECTRIC INTERNATIONAL INC 1 RIVER RD - BLDG 53-310 SCHENECTADY, NY 12305-2551 US	GE ENERGY CONSULTING SERVICES	P	2	8	N	N	1		100,000	20,600	20,600	79,400	1/1/2018	C		12/31/2018
4500293516	DTN LLC 9110 W DODGE RD STE 100 OMAHA, NE 68114-3334 US	SUBSCRIPTION FEES FOR NYMEX EXCHANGE	S	1	5	N	N	1		29,490	29,490	29,490	0	12/1/2017	C		11/30/2018
4500293535	ASPEN INC 49 N SAN MATEO DR SAN MATEO, CA 94401-2865 US	MAINTENANCE - ASPEN	S	1	6	N	N	1		8,692	8,692	8,692	0	2/1/2018	O	1/31/2019	
4500293578	MOODY'S INVESTORS SERVICE INC 7 WORLD TRADE CTR - FL 23 NEW YORK, NY 10007-2277 US	MOODY'S ANALYTICS SAAS	S	2	9	N	N	1		79,200	79,200	79,200	0	12/20/2017	C		3/19/2018
4500293616	ENTERPRISE TECHNOLOGY SOLUTIONS INC 323 W HUNTER LN FREMONT, CA 94539-6308 US	MAINTENANCE - IRONKEY ENTERPRISE	S	B		F	N	3		50,404	50,404	50,404	0	1/1/2018	C		12/31/2018
4500293617	GENERAL ELECTRIC INTERNATIONAL INC 1 RIVER RD - BLDG 53-310 SCHENECTADY, NY 12305-2551 US	GE MAPS ANNUAL LICENSE	S	1	9	N	N	1		95,000	95,000	95,000	0	1/21/2018	O	1/20/2019	
4500293674	ENTERPRISE TECHNOLOGY SOLUTIONS INC 323 W HUNTER LN FREMONT, CA 94539-6308 US	INSTALLATION SERVICES FOR CLOUDERA SOFTWARE ON HITACHI HARDWARE	S	B		F	N	3		44,202	0	0	44,202	1/29/2018	O	1/28/2019	
4500293675	BLUBAKER LIMITED 7 QUEENS GARDENS ABERDEEN, AB AB154YD GB	MAINTENANCE - DMC2 DATA MANAGEMENT CONSOLE SOFTWARE	S	1	6	N	N	1		14,140	14,140	14,140	0	1/1/2018	C		12/31/2018
4500293676	DIRECTOR'S DESK LLC ONE LIBERTY PLAZA - 49TH FL NEW YORK, NY 10006-1404 US	MAINTENANCE - DIRECTORS DESK	S	2	6	N	N	1		22,947	22,947	22,947	0	1/31/2018	O	1/30/2019	
4500293677	NOMAR ENTERPRISE LLC DBA RUGGED DEPOT 27060 DECKER PRARIE ROSHEILL RD MAGNOLIA, TX 77355-8437 US	PANASONIC TOUGHBOOK -	H	2	6	F	N	1		22,852	22,840	22,840	12	1/20/2018	C		3/14/2018
4500293678	MERLINONE INC 17 WHITNEY RD QUINCY, MA 02169-4309 US	MAINTENANCE - MERLIN ONE	S	1	6	N	N	1		25,800	25,800	25,800	0	1/1/2018	C		12/31/2018
4500293679	LIVEDATA UTILITY SOLUTIONS INC 810 MEMORIAL DR CAMBRIDGE, MA 02139-4642 US	LIVEDATA UPGRADE TO PRODUCTION AND QA	S	1	6	N	N	1		14,400	4,875	4,875	9,525	1/29/2018	O	1/28/2019	
4500293681	O'CONNELL ELECTRIC CO 830 PHILLIPS RD VICTOR, NY 14564 US	PLATTSBURGH SUBSTATION LIFE EXTENSION AND MODERNIZATION	C	C		N	N	2		1,457,250	1,425,754	1,425,754	31,496	1/23/2018	C		12/31/2018
4500293692	ALIANZA SERVICES LLC 74 N BROADWAY - 2ND FL SOUTH NYACK, NY 10960-2628 US	FURNITURE	E	B	7	N	04	1		291,832	291,832	291,832	0	1/22/2018	O	1/21/2019	
4500293696	ALIANZA SERVICES LLC 74 N BROADWAY - 2ND FL SOUTH NYACK, NY 10960-2628 US	FURNITURE	E	B	7	N	04	1		195,258	195,258	195,258	0	1/22/2018	C		12/31/2018
4500293708	VENUS POWER COM SUPPLY LLC 5407 46TH ST MASPETH, NY 11378-1051 US	OPGW - COMMUNICATIONS BACKBONE PROGRAM	E	2	8	N	03	1		225,704	217,730	217,730	7,974	1/22/2018	O	1/21/2019	

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4500293748	IBM CORP 80 STATE ST - STE 5 ALBANY, NY 12207-2543 US	MAXIMO SCHEDULER LICENSES AND SUPPORT	S	2	1	N	N	1		90,720	90,720	90,720	0	1/23/2018	O	1/22/2019	
4500293839	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	MAINTENANCE - ETM SOFTWARE	S	B	6	N	04	3		9,833	9,833	9,833	0	1/1/2018	C		12/31/2018
4500293841	PEOPLEFLUENT DBA FOR AQUIRE SOLUTIONS INC 400 LAS COLINAS BLVD E - STE 500 IRVING, TX 75039-5617 US	MAINTENANCE - ORG PUBLISHER	S	2	6	N	N	1		7,284	7,284	7,284	0	11/1/2017	C		10/31/2018
4500293855	GEORGE A HARPER GAH CONSULTING LLC 9 FAIRVIEW DR SOUTHBOROUGH, MA 01772-1713 US	BG IRENE REANALYSIS	A	1	5	F	N	1		27,405	12,836	12,836	14,569	1/25/2018	O	12/31/2019	
4500293858	RJ ASSOCIATES LLC 92 MCCARTY COVE RD WESTPORT ISLAND, ME 04578 US	HURRICANE IRENE REANALYSIS	A	1	5	F	N	1		21,600	6,820	6,820	14,780	1/25/2018	O	1/31/2020	
4500293881	SIRIUS COMPUTER SOLUTIONS INC 101000 REUNION PLACE STE 500 SAN ANTONIO, TX 78216 US	MAINTENANCE - IBM BILLING SOFTWARE	S	B	7	N	N	2		708,294	708,294	708,294	0	1/1/2018	C		12/31/2018
4500293889	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	MAINTENANCE - GLOBALSCAPE SOFTWARE	S	B	7	F	N	1		18,181	18,181	18,181	0	11/8/2017	C		11/7/2018
4500293903	SAN JUAN MARRIOTT RESORT & STELLARI CASINO DBA FOR XLD INVESTMENT PR 1309 ASHFORD AVE SAN JUAN, PR 00907 US	HOTEL ACCOMMODATION FOR DEPLOYED EMPLOYEES FOR PREPA	S	C	8	F	N	5		5,350,000	2,682,202	2,682,202	2,667,798	1/26/2018	C		12/19/2018
4500293913	TRP SAN JUAN OWNERS LLC SHERATON OLD SAN JUAN 100 CALLE BRUMBAUGH SAN JUAN, PR 00901-2620 US	HOTEL ACCOMMODATION FOR DEPLOYED EMPLOYEES FOR PREPA	S	C	8	N	N	5		2,430,000	2,145,790	2,145,790	284,210	1/26/2018	C		6/29/2018
4500293918	FLAGSHIP RESORT PROPERTIES SE VERDANZA HOTEL 8020 TARTAK ST CAROLINA, PR 00979-5732 US	HOTEL ACCOMMODATION FOR DEPLOYED EMPLOYEES FOR PREPA	S	C	8	F	N	5		1,980,000	297,726	297,726	1,682,274	1/26/2018	C		6/29/2018
4500293921	LIFESAFE INC 1400 KEY BLVD STE 800 ARLINGTON, VA 22209-1547 US	LIVESAFE MOBILE SAFETY COMMUNICATIONS PLATFORM	S	1	9	N	N	1		155,000	54,300	54,300	100,700	2/1/2018	O	1/31/2021	
4500293934	ESJ TOWERS INC 6165 ISLA VERDE AVE CAROLINA, PR 00979-5729 US	HOTEL ACCOMMODATION FOR DEPLOYED EMPLOYEES FOR PREPA	S	C	8	F	N	5		3,630,000	459,773	459,773	3,170,227	1/26/2018	C		6/29/2018
4500293942	KINSLEY GROUP INC KINSLEY POWER SYSTEMS 14 CONNECTICUT SOUTH DR EAST GRANBY, CT 06026 US	ON-CALL GENERATOR SERVICE FOR THE AUTHORITY'S WHITE PLAINS OFFICE	S	B		F	N	3		58,501	16,295	16,295	42,206	1/29/2018	O	1/28/2023	
4500293961	UNIVERSAL MULTILINK INC 18911 UNION TURNPIKE FLUSHING, NY 11366 US	MAINTENANCE - HP PLOTTERS	S	2	6	N	04	1		18,855	18,855	18,855	0	1/1/2018	C		12/31/2018
4500293984	HAGERMAN & COMPANY INC 505 SUNSET CT - PO BOX 139 MT ZION, IL 62549-1522 US	MERIDIAN 2011 REPLACEMENT	P	B	8	N	N	3		1,372,391	1,041,070	1,041,070	331,321	1/30/2018	O	1/29/2021	

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4500293987	MPREST SYSTEMS (2003) LTD 94 EM HAMOSHAVOT RD - PARK AZORIM KIRYAT ARIE PETACH TIKVA, 01 49130 IL	TRANSFORMER ASSET HEALTH SYSTEMS IN SUPPORT OF THE AUTHORITY'S SENSOR DEPLOYMENT WORK	E	1	9	F	N	1		631,000	606,000	606,000	25,000	1/30/2018	O	12/31/2019	
4500293988	ABB ENTERPRISE SOFTWARE INC STE 500 400 PERIMETER CENTER TER NE ATLANTA, GA 30346-1231 US	MAINTENANCE - VENTYX NMARKET	S	1	8	N	N	1		203,153	203,153	203,153	0	1/1/2018	C		12/31/2018
4500293996	SHI INTERNATIONAL CORP 290 DAVIDSON AVE SOMERSET, NJ 08873-4145 US	SOFTWARE AND MAINTENANCE - SPLUNK ENTERPRISE SOFTWARE	E	B	7	F	N	2		800,900	800,900	800,900	0	1/30/2018	O	1/22/2019	
4500294055	PARAG SONI WESTERN POWER PROJECT ADVISORS 19220 PIRES AVE CERRITOS, CA 90703-7355 US	CONSULTING TO FINALIZE THE LARGE SCALE RENEWABLE RFP EVALUATION AND QA/QC DEPARTMENT FOR THEIR PROJECTS	P	2		F	04	1		115,000	82,739	82,739	32,261	1/31/2018	O	1/30/2019	
4500294097	QRC HOLDINGS LLC OWL CYBER DEFENSE SOLUTIONS LLC 38A GROVE ST RIDGEFIELD, CT 06877-4664 US	OWL PERIMETER DEFENSE SOLUTION	H	1	6	F	N	1		6,000	6,000	6,000	0	3/1/2018	C		6/1/2018
4500294104	VMWARE INC 3145 PORTER DR PALO ALTO, CA 94304 US	MAINTENANCE - VMWARE	S	1	5	N	N	1		12,376	12,376	12,376	0	12/30/2017	C		12/29/2018
4500294109	O'CONNELL ELECTRIC CO 830 PHILLIPS RD VICTOR, NY 14564 US	STL FDR TLEM SWITCHYARD PROJECT	C	B	5	N	N	1		10,408,277	1,791,506	1,791,506	8,616,771	2/7/2018	O	2/6/2022	
4500294141	AIR CHARTER SERVICE INC 1055 RXR PLZ UNIONDALE, NY 11556-3824 US	HELICOPTER SERVICES FOR POWER RESTORATION SERVICES IN PUERTO RICO	S	1	8	N	N	1		25,000	11,375	11,375	13,625	2/1/2018	C		8/30/2018
4500294157	KEMCO INDUSTRIES LLC 70 KEYES CT SANFORD, FL 32773 US	Y49 RELAY AND COMMUNICATION UPGRADES	E	B		F	N	1		127,925	127,925	127,925	0	2/5/2018	C		7/27/2018
4500294191	ASSETWORKS LLC DBA FOR TRAPEZE SOFTWARE GROUP INC SUITE 1215 998 OLD EAGLE SCHOOL ROA WAYNE, PA 19087 US	DATABASE RESTORATION FOR ASSETWORKS	S	B	7	N	N	1		28,783	28,783	28,783	0	2/12/2018	C		5/31/2018
4500294199	VERTIV SERVICES INC 610 EXECUTIVE CAMPUS DR WESTERVILLE, OH 43082-8870 US	MAINTENANCE - UPS SYSTEM	S	2	1	N	N	1		66,920	22,307	22,307	44,613	12/27/2017	O	12/26/2020	
4500294216	EAST COAST AQUADAMS LLC PO BOX 1203 EASTON, MD 21601-8924 US	HELLGATE AQUA DAM EQUIPMENT	E	2	8	F	N	1		46,015	45,205	45,205	810	2/2/2018	O	2/1/2019	
4500294225	CSL ENTERPRISES INC DBA REEL VISION PRODUCTIONS PO BOX 15 SAUGERTIES, NY 12477-0015 US	VIDEOPRODUCTION SUPPORT	S	1	6	N	01	1		65,250	44,006	44,006	21,244	1/1/2018	C		3/9/2018
4500294244	FLIK INTERNATIONAL CORP IBM LEARNING CENTER 20 OLD POST RD ARMONK, NY 10504-1314 US	WOMEN'S LEADERSHIP SUMMIT	E	1	9	N	N	1		18,375	16,000	16,000	2,375	4/19/2018	C		4/20/2018
4500294270	ARIBA INC 910 HERMOSA CT SUNNYVALE, CA 94085-4199 US	ARIBA PREFERRED CARE	S	1	1	N	N	1		95,000	95,000	95,000	0	2/28/2018	O	2/27/2019	

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4500294287	ELECTRIC POWER GROUP LLC 251 S LAKE AVE STE 300 PASADENA, CA 91101-3055 US	MAINTENANCE - RTDMS AND DADANXT SOFTWARE	S	1	8	F	N	1		75,000	75,000	75,000	0	1/1/2018	C		12/31/2018
4500294335	SIRIUS COMPUTER SOLUTIONS INC 101000 REUNION PLACE STE 500 SAN ANTONIO, TX 78216 US	IBM DATAPOWER GATEWAY SOFTWARE	I	B	7	F	N	1		18,477	18,477	18,477	0	2/12/2018	C		2/28/2018
4500294351	ORACLE AMERICA INC 1910 ORACLE WY RESTON, VA 20190-4733 US	MAINTENANCE - ORACLE DATABASE	S	1	5	N	N	1		15,606	11,705	11,705	3,901	2/10/2018	O	2/9/2019	
4500294365	PTC INC 140 KENDRICK ST NEEDHAM, MA 02494-2743 US	MODBUS SOFTWARE SUITE	S	1	1	N	N	1		10,848	10,848	10,848	0	1/12/2018	O	1/11/2019	
4500294368	DATASPLICE LLC 414 E OAK ST FORT COLLINS, CO 80524-2950 US	PROVIDE SOFTWARE SUPPORT SERVICES FOR DATASPLICE APPLICATION	S	B	7	F	N	1		77,470	30,839	30,839	46,631	1/1/2018	C		12/31/2018
4500294390	ENTERPRISE TECHNOLOGY SOLUTIONS INC 323 W HUNTER LN FREMONT, CA 94539-6308 US	MAINTENANCE - UPTRENDS ENTERPRISE	S	B	5	F	N	1		6,252	6,252	6,252	0	1/26/2018	O	1/25/2019	
4500294431	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	HITACHI EQUIPMENT FOR IT INFRASTRUCTURE	E	B	7	N	04	4		68,673	68,673	68,673	0	2/9/2018	O	2/8/2019	
4500294462	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	CISCO EQUIPMENT-END OF LIFE REPLACEMENT	H	B	7	F	04	5		213,963	213,963	213,963	0	2/9/2018	C		4/10/2018
4500294493	SHI INTERNATIONAL CORP 290 DAVIDSON AVE SOMERSET, NJ 08873-4145 US	PHISHME SIMULATOR ENTERPRISE	S	B	7	N	N	1		18,313	18,313	18,313	0	1/1/2018	C		4/3/2018
4500294578	ALIANZA SERVICES LLC 74 N BROADWAY - 2ND FL SOUTH NYACK, NY 10960-2628 US	FURNITURE	E	B	7	N	04	1		10,410	10,410	10,410	0	2/14/2018	C		12/31/2018
4500294585	SEATTLE SOFTWARE LTD TRADING AS ORBUS SOFTWARE FL 3 111 BUCKINGHAM PALACE RD LONDON, LO SW1W 05R GB	SOFTWARE AND MAINTENANCE - ORBUS	E	B	7	F	N	1		10,800	10,800	10,800	0	1/29/2018	O	1/22/2019	
4500294590	WAH SING NG NGPLANNING LLC 4 CAMBRIDGE RD HOLMDEL, NJ 07733-2020 US	EGEAS MODEL SET UP, TRAINING, AND SUPPORT	S	1	9	N	N	1		56,975	31,063	31,063	25,912	2/14/2018	O	2/13/2019	
4500294599	MIND SQUAD CONSULTING LLC DBA FOR SHERI L MOONEY 119 W TUPPER ST BUFFALO, NY 14201-2142 US	EVALUATION OF THE SUPPORT PROVIDED BY THE AUTHORITY TO FIRST RESPONDERS	P	2	8	N	03	1		132,000	115,535	115,535	16,465	2/15/2018	O	2/14/2019	
4500294611	PROFTECH LLC 200 CLEARBROOK RD - STE 177 ELMSFORD, NY 10523-1328 US	OFFICE SUPPLIES	E	2	8	N	04	1		80,000	62,021	62,021	17,979	2/16/2018	O	2/15/2019	
4500294703	BARRY KEIM KEIM CONSULTING LLC 7222 WICKHAM DR BATON ROUGE, LA 70808-5634 US	HURRICANE IRENE REANALYSIS	P	1	5	F	N	1		43,860	0	0	43,860	2/16/2018	O	12/31/2019	
4500294708	SILKROAD TECHNOLOGY INC 102 W 3RD ST - STE 250 WINSTON SALEM, NC 27101-3900 US	ANNUAL SUBSCRIPTION FOR SILKROAD/REDCARPET	S	1	8	N	N	1		54,075	54,075	54,075	0	3/29/2018	O	3/28/2019	

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4500294726	MELTWATER NEWS US INC 50 FREMONT ST STE 200 SAN FRANCISCO, CA 94105-2244 US	MELTWATER NEWSCLIPS SERVICES	S	2	6	N	N	1		25,500	19,125	19,125	6,375	2/10/2018	O	2/9/2019	
4500294727	SCHNEIDER ELECTRIC SOFTWARE LLC 33 COMMERCIAL ST FOXBORO, MA 02035-5309 US	SOFTWARE, MAINTENANCE, TRAINING, LABOR - WONDERWARE / INTELATRAC	S	2	6	N	N	1		47,451	47,451	47,451	0	1/1/2018	C		12/31/2018
4500294736	SIRIUS COMPUTER SOLUTIONS INC 101000 REUNION PLACE STE 500 SAN ANTONIO, TX 78216 US	MAINTENANCE - CITRIX	S	B	7	N	N	2		35,501	35,501	35,501	0	2/20/2018	O	2/19/2019	
4500294746	GE GRID SOLUTIONS LLC DBA FOR GE SOLUTIONS (US) LLC 4200 WILDWOOD PKWY BLDG 2018 ATLANTA, GA 30339-8402 US	SETTINGLESS PROTECTION	E	B		F	N	2		39,750	39,750	39,750	0	2/20/2018	O	2/19/2019	
4500294782	ADOBE SYSTEMS INC 345 PARK AVE SAN JOSE, CA 95110-2704 US	ADOBE RENEWAL OF SUBSCRIPTION LICENSES	S	2	6	F	N	1		23,760	23,760	23,760	0	2/22/2018	O	2/21/2019	
4500294799	LIVEDATA UTILITY SOLUTIONS INC 810 MEMORIAL DR CAMBRIDGE, MA 02139-4642 US	MAINTENANCE - LIVEDATA	S	1	6	N	N	1		36,180	36,180	36,180	0	1/1/2018	C		12/31/2018
4500294875	GRAPHIC MANAGEMENT PARTNERS LLC 47 PURDY AVE - STE 2 PORT CHESTER, NY 10573-5043 US	PRINTING BROCHURE	E	B	6	N	N	5		8,152	8,152	8,152	0	2/22/2018	C		3/30/2018
4500294904	BERGMANN ASSOC ARCHITECTS ENGINEERS LANDSCAPE ARCHITECTS&SURVEYORS DPC 280 E BROAD ST - STE 200 ROCHESTER, NY 14604-1740 US	FERC 12 DAM SAFETY	A	2	8	N	N	3		221,428	25,470	25,470	195,958	1/1/2018	O	12/31/2022	
4500294979	JEFFREY M SELCHICK PO BOX 11280 ALBANY, NY 12211-0280 US	ARBITRATOR'S FEE	L	1	1	N	N	1		9,357	9,357	9,357	0	1/26/2018	C		2/26/2018
4500294992	ARIBA INC 910 HERMOSA CT SUNNYVALE, CA 94085-4199 US	ARIBA CATALOG	S	1	9	N	N	1		180,000	180,000	180,000	0	2/24/2018	O	2/23/2019	
4500295018	FEDRESULTS INC 1900 CAMPUS COMMONS DR - STE 100 RESTON, VA 20191-1535 US	TABLEAU TRAINING FOR DESKTOP I AND II	P	B	7	F	N	1		18,638	15,663	15,663	2,975	2/27/2018	O	2/26/2019	
4500295054	ASSETWORKS LLC DBA FOR TRAPEZE SOFTWARE GROUP INC 998 OLD EAGLE SCHOOL RD - STE 1215 WAYNE, PA 19087-1862 US	MAINTENANCE - MAXIMUS FLEET	S	B	7	F	N	1		36,115	36,115	36,115	0	4/1/2018	O	3/31/2019	
4500295061	SHI INTERNATIONAL CORP 290 DAVIDSON AVE SOMERSET, NJ 08873-4145 US	MAINTENANCE - TABLEAU	E	B	7	F	N	1		62,676	62,676	62,676	0	3/16/2018	O	3/15/2019	
4500295094	TRANE U S INC TRANE 4518 COURT SQ LONG ISLAND CITY, NY 11101-2955 US	TRANE SERVICE AGREEMENT AND CHILLER EQUIPMENT OVERHAULS	S	B	7	N	N	1		76,298	62,008	62,008	14,290	3/5/2018	O	3/4/2019	

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4500295104	GE ENERGY CONTROL SOLUTIONS INC 1800 NELSON RD LONGMONT, CO 80501-6324 US	CYBER ASSET PROTECTION	S	1	9	N	N	1		101,402	101,402	101,402	0	3/1/2018	O	2/28/2019	
4500295158	GP STRATEGIES CORP 11000 BROKEN LAND PKWY STE 200 COLUMBIA, MD 21044-3555 US	ETAPRO PERFORMANCE PLUS+ TIER 1 BASIC SOFTWARE SUPPORT	S	1	6	F	N	1		28,000	28,000	28,000	0	1/1/2018	C		12/31/2018
4500295210	LEXISNEXIS A DIVISION OF RELX INC 125 PARK AVE NEW YORK, NY 10017-5529 US	LEXIS NEXIS ACCURINT RENEWAL	S	B	5	N	N	1		40,000	13,750	13,750	26,250	4/1/2018	O	3/31/2019	
4500295213	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	NETWORK EQUIPMENT	E	B	7	N	04	3		194,584	194,584	194,584	0	3/6/2018	O	3/5/2019	
4500295323	ESJ RESORT LLC EL SAN JUAN HOTEL 6063 ISLA VERDE AVE CAROLINA, PR 00979-5706 US	HOTEL ACCOMMODATION FOR DEPLOYED EMPLOYEES FOR PREPA	S	C	8	F	N	4		273,897	273,896	273,896	1	3/8/2018	C		5/23/2018
4500295344	SPECIALIZED AUDIO VISUAL INC 14 SOLAR DR HALFMOON, NY 12065-3401 US	AUDIO VISUAL REQUIREMENTS FOR PUERTO RICO EFFORTS	P	2	5	N	N	1		10,000	10,000	10,000	0	3/8/2018	C		12/31/2018
4500295357	VRD CONTRACTING INC 25 ANDREA RD HOLBROOK, NY 11741-4310 US	SWIFTSPACE WORK STATIONS	E	2	8	N	03	2		11,122	10,468	10,468	654	3/9/2018	C		6/30/2018
4500295376	GUEST SERVICES INC BEAR MOUNTAIN INN/ GUEST SER MANG L 3055 PROSPERITY AVE FAIRFAX, VA 22031-2290 US	LUNCH SERVICES FOR NYS GOVERNOR'S CABINET MEETING	S	2	6	N	N	1		6,866	0	0	6,866	3/9/2018	C		8/30/2018
4500295425	PKA TECHNOLOGIES INC 1 EXECTIVE BLVD - STE 203 SUFFERN, NY 10901-4156 US	MAXIMO 7.6 UPGRADE AND LOAD TESTING	P	2	9	N	03	1		77,350	76,120	76,120	1,230	3/15/2018	O	3/14/2019	
4500295428	ALIANZA SERVICES LLC 74 N BROADWAY - 2ND FL SOUTH NYACK, NY 10960-2628 US	FURNITURE	E	B	7	N	04	1		9,884	9,884	9,884	0	3/12/2018	C		6/30/2018
4500295445	APOGEE EXHIBITS DBA FOR THE TAYLOR GROUP LTD PO BOX 548 MACEDON, NY 14502-0548 US	ELECTRIC VEHICLE DISPLAY FOR ADVANCED ENERGY CONFERENCE	E	2	5	N	N	1		16,914	16,914	16,914	0	3/12/2018	C		4/27/2018
4500295525	MUA PNC NAPOLES TRATURA ITALIANA 6063 ISLA VERDE AVE CAROLINA, PR 00979-5706 US	CATERING SERVICES FOR NY CONTINGENT WORKFORCE STAYING AT THE EL SAN JUAN HOTEL	S	2	8	F	N	1		205,338	205,233	205,233	105	3/14/2018	C		5/23/2018
4500295537	SIMMERS CRANE DESIGN & SERVICES CO DBA FOR POLLOCK REASEARCH & DESIGN 1134 SALEM PKWY SALEM, OH 44460-1063 US	NIA RM30, RM630, LPGP65 AND LPGP150 TON GANTRY CRANE BUS PARAPET UPGRADE PROGRAM	C	B		F	N	1		4,160,405	932,535	932,535	3,227,870	3/22/2018	O	3/21/2021	
4500295602	HAUGLAND ENERGY GROUP LLC 11 COMMERCIAL ST PLAINVIEW, NY 11803-2401 US	PUERTO RICO RESTORATION EFFORTS	C	1	1	N	N	1		15,000,000	13,194,430	13,194,430	1,805,570	3/15/2018	C		12/4/2018
4500295640	POWERTECH LABS INC 12388-88TH AVE SURREY, BC V3W 7R7 CA	PROVIDE SERVICES, SOFTWARE, AND EQUIPMENT THAT WILL BE USED TO DEVELOP MODELS USED IN AGILE LAB FOR AGILE ACTIVITIES	P	2		F	N	1		299,500	233,050	233,050	66,450	12/24/2018	O	6/30/2019	

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4500295686	WESCO INSURANCE COMPANY 800 SUPERIOR AVE E STE 2100 CLEVELAND, OH 44114-2601 US	NY STATE PAID FAMILY LEAVE	P	2	3	N	N	1		120,000	0	0	120,000	1/1/2018	C		12/31/2018
4500295699	ANNESE & ASSOCIATES INC 7 SUTTON PL - STE E BREWSTER, NY 10509-3537 US	CISCO EQUIPMENT-OPSNET	H	B	7	F	03	3		8,549	8,549	8,549	0	3/20/2018	C		9/30/2018
4500295701	GE-PROLEC TRANSFORMERS INC 1224 COMMERCE ST SW STE J CONOVER, NC 28613-8245 US	B-G STATION SERVICE TRANSFORMER - SPARE	E	B		F	N	4		487,601	0	0	487,601	3/30/2018	O	12/28/2019	
4500295706	KORN FERRY US 33 S 6TH ST STE 4900 MINNEAPOLIS, MN 55402-3716 US	NYPA TOTAL REMUNERATION STUDY	P	2	8	F	N	1		195,000	145,079	145,079	49,921	3/23/2018	O	2/28/2019	
4500295784	ORACLE AMERICA INC 1001 SUNSET BLVD ROCKLIN, CA 95765-3702 US	MAINTENANCE - ORACLE	S	B	7	N	N	1		29,390	29,390	29,390	0	3/24/2018	O	3/24/2019	
4500295787	PRESIDIO NETWORKED SOLUTIONS GROUP DBA FOR PRESIDIO HOLDINGS INC 30 STANFORD DR - STE 2 FARMINGTON, CT 06032-2453 US	CISCO EQUIPMENT - DIGITAL SIGNAGE PROJECT	H	B	7	F	N	3		28,949	28,949	28,949	0	3/22/2018	C		5/10/2018
4500295839	PKA TECHNOLOGIES INC 1 EXECTIVE BLVD - STE 203 SUFFERN, NY 10901-4156 US	MAINTENANCE - TURBONOMICS	S	B	6	N	03	6		26,649	26,649	26,649	0	5/1/2018	O	4/30/2019	
4500295870	LAYER 3 TECHNOLOGIES INC 1645 LYELL AVE STE 200 ROCHESTER, NY 14606-2331 US	MAINTENANCE - SOPHOS	S	B	7	N	03	1		89,310	89,310	89,310	0	3/31/2018	O	3/20/2019	
4500295871	PRESIDIO NETWORKED SOLUTIONS GROUP DBA FOR PRESIDIO HOLDINGS INC 30 STANFORD DR - STE 2 FARMINGTON, CT 06032-2453 US	CISCO EQUIPMENT-OPSNET DESIGN	H	B	7	F	N	2		66,616	29,608	29,608	37,008	3/25/2018	C		9/30/2018
4500295999	KOFAX INC 15211 LAGUNA CANYON RD IRVINE, CA 92618-3146 US	MAINTENANCE - READSOFT AP AUTOMATION	S	1	6	N	N	1		17,983	17,983	17,983	0	5/1/2017	C		4/30/2018
4500296050	LEARNING TREE INTERNATIONAL 1831 MICHAEL FARADAY DR RESTON, VA 20190-5304 US	ITIL FOUNDATION TRAINING	S	B	5	N	N	8		59,150	47,200	47,200	11,950	3/30/2018	O	3/29/2019	
4500296061	AQUATECH INTERNATIONAL CORP 1 FOUR COINS DR CANONSBURG, PA 15317-1778 US	FLYNN: WATER TREATMENT MAINTENANCE SERVICES	S	1	5	F	N	1		35,000	8,104	8,104	26,896	4/9/2018	O	4/8/2019	
4500296182	FLOW SCIENCE INC 683 HARKLE RD - STE A SANTA FE, NM 87505-4750 US	MAINTENANCE - FLOW 3D/MP	S	1	6	N	N	1		21,160	21,160	21,160	0	5/15/2018	O	5/14/2019	
4500296215	NORTHLINE UTILITIES LLC DBA FOR NORTHLINE VENTURES INC 15 SCHOOL LN - STE 200 AU SABLE FORKS, NY 12912 US	STL: COMMUNICATION BACKBONE DARK FIBER PS1/PV20 PROJECT	C	B	9	N	01	4		2,649,291	1,360,347	1,360,347	1,288,944	4/9/2018	O	4/8/2019	
4500296316	DELL MARKETING LP C/O DELL USA LP ONE DELL WAY MS RR3-58 ROUND ROCK, TX 78664-7000 US	MICROSOFT TRUE-UP LICENSES	I	B	7	N	N	1		63,427	63,427	63,427	0	4/9/2018	C		6/30/2018
4500296582	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	MAINTENANCE - ACRONIS	S	B	6	N	04	4		8,550	8,550	8,550	0	5/31/2018	O	5/30/2019	

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4500296600	ENTERPRISE TECHNOLOGY SOLUTIONS INC 323 W HUNTER LN FREMONT, CA 94539-6308 US	MAINTENANCE - DXPERIENCE SOFTWARE	S	B	6	N	N	1		7,939	7,939	7,939	0	2/27/2018	O	2/27/2019	
4500296657	MTS INTEGRA TRAK INC 70 GRAND AVE - STE 104 RIVER EDGE, NJ 07661-1936 US	ANNUAL TELECOM SYSTEM SERVICES	S	1	6	N	N	1		14,615	14,615	14,615	0	5/1/2018	O	4/30/2019	
4500296702	MICROSOFT CORP 3000 BAYPORT DR - STE 480 TAMPA, FL 33607 US	MS SUPPORT - NYPA	S	B	7	N	N	1		153,265	153,265	153,265	0	6/28/2018	O	6/27/2019	
4500296726	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	MAINTENANCE - NETSCOUT	S	B	6	N	04	4		15,687	15,687	15,687	0	6/1/2018	O	5/31/2019	
4500296752	NORTHLINE UTILITIES LLC DBA FOR NORTHLINE VENTURES INC 15 SCHOOL LN - STE 200 AU SABLE FORKS, NY 12912 US	SENSOR DEPLOYMENT PROGRAM PHASE I-CONSTRUCTION	C	B			N	01	5	4,988,684	2,159,974	2,159,974	2,828,710	4/23/2018	O	3/29/2019	
4500296791	PRESIDIO NETWORKED SOLUTIONS GROUP DBA FOR PRESIDIO HOLDINGS INC 30 STANFORD DR - STE 2 FARMINGTON, CT 06032-2453 US	PROVIDE LOAD BALANCING FOR NYPA'S NETWORK	S	B			N	N	6	70,400	70,400	70,400	0	4/24/2018	O	4/23/2019	
4500296984	MINIMAX FIRE SOLUTIONS INC 3025 INDEPENDENCE DR STE C LIVERMORE, CA 94551-7683 US	NIAGARA RM GSU 13 DELUGE FIRE SUPPRESSION SYSTEM	C	B			F	N	2	419,961	404,174	404,174	15,787	4/26/2018	O	4/25/2019	
4500297011	CUNY RESEARCH FOUNDATION 230 W 41ST ST FL 7 NEW YORK, NY 10036 US	SUB-METERING SERVICES WITH CUNY	S	2	9	N	N	1		104,700	20,814	20,814	83,886	4/30/2018	O	4/29/2019	
4500297033	J E SHEEHAN CONTRACTING CORP 208 SISSONVILLE RD POTSDAM, NY 13676-3563 US	ST LAWRENCE STABILIZATION OF SHORELINE PROJECT	C	B			N	01	2	422,414	0	0	422,414	4/30/2018	O	4/29/2019	
4500297086	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	MAINTENANCE AND INSTALLATION - DOCAVE6	S	B	7	F	N	1		47,660	47,660	47,660	0	4/30/2018	O	4/29/2019	
4500297152	SAF-GARD SAFETY SHOE CO 1285 MANHEIM PIKE LANCASTER, PA 17601 US	SAFETY SHOWS	S	2	5	N	N	1		8,228	8,228	8,228	0	1/31/2018	C		6/30/2018
4500297166	VEOLIA ES TECHNICAL SOLUTIONS LLC DBA FOR VEOLIA NORTH AMERICA INC 1275 MINERAL SPRINGS DR PORT WASHINGTON, WI 53074-2163 US	DISPOSAL OF ELECTRONIC WASTE	S	B			F	N	6	50,000	0	0	50,000	5/2/2018	O	12/30/2020	
4500297372	M J BRADLEY & ASSOCIATES LLC 47 JUNCTION SQUARE DR CONCORD, MA 01742 US	MJ BRADLEY CLEAN ENERGY GROUP MEMBERSHIP	A	2	5	N	N	1		25,000	25,000	25,000	0	5/9/2018	C		7/31/2018
4500297415	PERRAS EXCAVATING INC 1909 ST HWY 420 MASSENA, NY 13662 US	STL - REHABILITATION OF THE HATCH COVER DECK PROJECT (18, 19 AND 20)	C	B			N	N	2	2,150,850	1,735,530	1,735,530	415,320	5/11/2018	C		12/31/2018
4500297435	RDG + PARTNERS CPAS PPLC 69B MONROE AVE PITTSFORD, NY 14534 US	AUDIT OF 457 COMPENSATION PLAN	P	2	5	N	N	1		9,500	8,891	8,891	609	5/14/2018	O	1/14/2019	

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4500297437	M J BRADLEY & ASSOCIATES LLC 47 JUNCTION SQUARE DR CONCORD, MA 01742 US	DEVELOPMENT OF SUSTAINABILITY AND ENVIRONMENTAL JUSTICE PLAN	A	1	8	F	N	1		240,000	144,310	144,310	95,690	4/19/2018	O	3/31/2019	
4500297464	CARRIER CORP 175 CENTRAL AVE - STE 300 FARMINGDALE, NY 11735-6917 US	REPAIR THE CARRIER ABSORPTION CHILLER AT NYC HHC HERITAGE HEALTHCARE FACILITIES	C	B	7	N	N	1		88,845	74,845	74,845	14,000	5/14/2018	C		12/6/2018
4500297465	OAK RIDGE HAULING LLC 307 WHITE ST DANBURY, CT 06810-6934 US	RUBBISH REMOVAL AND RECYCLING	S	B	7	N	N	2		85,000	18,530	18,530	66,470	5/7/2018	O	5/6/2019	
4500297466	KOFAX INC 15211 LAGUNA CANYON RD IRVINE, CA 92618-3146 US	MAINTENANCE - READSOFT PROCESS DIRECTOR	S	B	8	N	N	1		18,403	18,403	18,403	0	5/1/2018	O	4/30/2019	
4500297467	KOFAX INC 15211 LAGUNA CANYON RD IRVINE, CA 92618-3146 US	MAINTENANCE - READSOFT CUSTOMIZATION SOFTWARE	S	B	8	N	N	1		17,983	17,983	17,983	0	5/1/2018	O	4/30/2019	
4500297522	PERRAS EXCAVATING INC 1909 ST HWY 420 MASSENA, NY 13662 US	STL LONG SAULT DAM DOWNSTREAM CONCRETE REHABILITATION PROJECT	C	B		N	N	2		1,551,922	186,061	186,061	1,365,861	12/31/2018	O	6/11/2019	
4500297617	SIEMENS INDUSTRY INC 400 STATE ST SCHENECTADY, NY 12305-2304 US	MAINTENANCE - PSS/E AND GIC	S	1	5	N	N	1		20,625	20,625	20,625	0	1/1/2018	C		12/31/2018
4500297618	SCIPAR INC 26 W SPRING ST - PO BOX 400 BUFFALO, NY 14231-0400 US	SOURCE CODE FIX	S	1	5	N	N	1		6,800	4,849	4,849	1,951	5/15/2018	O	5/14/2019	
4500297623	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	CYBER SECURITY ASSESSMENT	P	1	8	N	N	1		70,000	69,900	69,900	100	5/15/2018	O	5/14/2019	
4500297651	IBM CORP 80 STATE ST - STE 5 ALBANY, NY 12207-2543 US	IBM STERLING GENTRAN USAGE	S	1	6	N	N	1		12,000	10,101	10,101	1,899	1/1/2018	C		12/31/2018
4500297652	CERIDIAN HCM INC 3311 E OLD SHAKOPEE RD MINNEAPOLIS, MN 55425-1361 US	PAYROLL SERVICES	P	B	7	F	N	3		165,000	93,828	93,828	71,172	4/1/2018	C		12/31/2018
4500297675	SOURCE IT TECHNOLOGIES LLC KARA HOMAN 24 EAST AVE - STE 244 NEW CANAAN, CT 06840-5529 US	PROVIDE HITACHI EQUIPMENT, SOFTWARE AND SUPPORT	S	B	7	F	03	2		116,314	116,314	116,314	0	5/16/2018	O	5/15/2019	
4500297756	RMG ENTERPRISE SOLUTIONS INC 15301 DALLAS PKWY - STE 500 ADDISON, TX 75001-6707 US	MAINTENANCE - SYMON SOFTWARE INCLUDING DESIGN STUDIO	S	1	6	N	N	1		16,558	16,558	16,558	0	1/1/2018	C		12/31/2018
4500297810	INNOVATIVE AUTOMATION INC 954 HERITAGE HIILS DR YORK, PA 17402 US	COMPLETION OF DEVELOPING NORTHERN REGION OPERATING PROCEDURES AND SYSTEM DESCRIPTIONS	A	2	1	F	N	1		550,000	0	0	550,000	3/20/2018	O	3/19/2020	
4500297812	GLOBALSTAR INC GLOBALSTAR USA LLC 461 S MILPITAS BLVD MILPITAS, CA 95035-5485 US	GLOBALSTAR SERVICES	S	1	8	N	N	1		99,841	99,841	99,841	0	4/16/2018	O	4/15/2019	
4500297846	BVR CONSTRUCTION CO INC 8 KING RD CHURCHVILLE, NY 14428 US	RMNPP HEAD RAIL AND SLOT REFURBISHMENT AND STOP LOG RAIL REFURB	C	B		N	N	2		1,108,356	1,067,156	1,067,156	41,200	5/11/2018	C		12/31/2018
4500297863	ORACLE AMERICA INC 1910 ORACLE WY RESTON, VA 20190-4733 US	MAINTENANCE - ORACLE	S	2	8	N	N	1		890,580	53,696	53,696	836,884	5/14/2018	O	3/31/2021	
4500297872	OPEN TEXT INC 951 MARINERS ISLAND BLVD - FL 7 SAN MATEO, CA 94404-1561 US	MAINTENANCE - LIVELINK	S	B	7	N	N	1		119,030	119,030	119,030	0	7/1/2018	O	6/30/2019	

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4500297904	TECHNICAL BUILDING SERVICES INC 12 E COMMERCE DR BALLSTON SPA, NY 12020 US	ENERGY MANAGEMENT SYSTEM REPAIR AND MAINTENANCE	E	B	7	N	N	1		100,000	10,554	10,554	89,446	5/21/2018	O	5/20/2019	
4500297950	POWERGEM LLC 632 PLANK RD - STE 101 CLIFTON PARK, NY 12065-4883 US	TARA SOFTWARE RENEWAL	E	1	5	N	N	1		38,000	38,000	38,000	0	6/1/2018	O	5/31/2019	
4500297957	CUNY RESEARCH FOUNDATION 230 W 41ST ST FL 7 NEW YORK, NY 10036 US	DEVELOP TRAINING CURRICULUM FOR NEW YORK ENERGY MANAGER	P	2	8	N	N	1		50,000	0	0	50,000	6/15/2018	O	6/14/2019	
4500297958	SIEMENS INDUSTRY INC 400 STATE ST SCHENECTADY, NY 12305-2304 US	PUSS MUST RENEWAL	E	1	5	N	N	1		25,350	25,350	25,350	0	5/18/2018	O	5/17/2019	
4500297969	DEJERO LABS INC 412 ALBERT ST STE 100 WATERLOO, ON N2L 3V3 CA	LEASE OF STREAMING EQUIPMENT	E	1	5	N	N	1		34,360	34,360	34,360	0	4/20/2018	O	4/19/2019	
4500297998	THE IRON TOMATO LLC 57 MAMARONECK AVE WHITE PLAINS, NY 10601-4204 US	FOOD PREPARATION AND DELIVERY FOR THE STORM RECOVERY TEAM	S	2	5	N	N	1		6,575	0	0	6,575	3/7/2018	C		3/8/2018
4500298024	DELL MARKETING LP 850 ASBURY DR BUFFALO GROVE, IL 60089-4557 US	ADOBE CREATE CLOUD LICENSES	S	2	6	N	N	1		26,318	26,318	26,318	0	6/5/2018	O	6/4/2019	
4500298041	FEDTEK INC 12700 BLACK FOREST LN STE 202 WOODBRIDGE, VA 22192-5306 US	MAINTENANCE - WEBTRENDS	S	B	7	F	N	1		11,038	11,033	11,033	5	6/27/2018	O	6/26/2019	
4500298046	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	SOFTWARE - SOLARWINDS	E	B	7	F	N	1		10,413	10,413	10,413	0	5/30/2018	O	5/29/2019	
4500298094	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	LICENSES AND MAINTENANCE - ACTIVE DIRECTORY	E	B	7	N	N	1		25,324	25,324	25,324	0	6/1/2018	O	5/31/2019	
4500298189	THE ROOSEVELT HOTEL DBA FOR RHC OPERATING LLC 45 EAST 45TH ST NEW YORK, NY 10017-3159 US	BREAKFAST MEETING FOR NYPA EMPLOYEES	S	C	6	N	N	3		33,397	0	0	33,397	6/5/2018	C		7/1/2018
4500298247	NEW YORK BOTANICAL GARDEN 2900 SOUTHERN BOULEVARD BRONX, NY 10458 US	PUBLIC AN REGULATORY AFFAIRS OFFSITE WORKSHOP STAFF MEETING	S	2	6	N	N	1		10,000	0	0	10,000	6/6/2018	C		6/30/2018
4500298296	DOUBLETREE BY HILTON SYRACUSE DBA FOR MCCK SYRACUSE HOTEL NO 2 LP 6301 STATE ROUTE 298 EAST SYRACUSE, NY 13057-1205 US	ASSET MANAGEMENT CONFERENCE	S	C	6	N	N	2		9,652	9,652	9,652	0	5/8/2018	C		8/30/2018
4500298321	ADP LLC PO BOX 842875 BOSTON, MA 02284-2875 US	PAYROLL SERVICES	S	C		F	N	5		878,511	1,576	1,576	876,935	6/11/2018	O	6/10/2023	
4500298413	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	SUB-SYNCHRONOUS RESONANCE DETECTION PROJECT AT MSSC	E	2	8	F	N	1		943,971	269,032	269,032	674,939	6/12/2018	O	5/31/2019	
4500298432	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	FERC 12 DAM SAFETY NIAGARA HYDRO ELECTRIC PLANT	A	2	8	N	N	3		337,456	69,980	69,980	267,476	6/13/2018	O	1/31/2020	

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4500298437	DELL MARKETING LP 850 ASBURY DR BUFFALO GROVE, IL 60089-4557 US	MICROSOFT LICENSING PRODUCTS NYPA	S	B	7	F	N	1		3,793,770	1,240,677	1,240,677	2,553,093	7/1/2018	O	6/30/2021	
4500298442	ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE INC 380 NEW YORK ST REDLANDS, CA 92373-8100 US	ESRI ARCGIS UPGRADE	E	B	7	N	N	1		16,564	16,564	16,564	0	7/6/2018	O	7/5/2019	
4500298457	CHA CONSULTING INC III WINNERS CIRCLE ALBANY, NY 12205-0269 US	INSPECTION FEE FOR NIAGARA BIENNIAL BRIDGES INSPECTION	A	B	8	N	N	3		279,000	129,400	129,400	149,600	6/13/2018	O	1/31/2019	
4500298463	CHA CONSULTING INC III WINNERS CIRCLE ALBANY, NY 12205-0269 US	ENGINEERING AND DESIGN SERVICES SAINT LAWRENCE FDR POWER PLANT ELEVATED WATER STORAGE TANK REPLACEMENT PROJECT	A	B		N	N	4		210,200	39,470	39,470	170,730	6/13/2018	O	1/31/2020	
4500298478	ENTERPRISE TECHNOLOGY SOLUTIONS INC 323 W HUNTER LN FREMONT, CA 94539-6308 US	HITACHI EQUIPMENT, SOFTWARE AND SUPPORT FOR THE AUTOVAULT PROJECT	E	B	7	F	N	4		104,778	104,778	104,778	0	6/14/2018	O	6/13/2019	
4500298500	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	HITACHI EQUIPMENT, SOFTWARE, AND SUPPORT	E	B	7	N	04	2		69,588	69,588	69,588	0	6/14/2018	O	6/13/2019	
4500298541	LDC CONSTRUCTION CO INC 1920 BASELINE RD GRAND ISLAND, NY 14072-2013 US	MOTOR ISLAND HABITAT IMPROVEMENT PROJECT	C	B		N	N	3		463,872	441,538	441,538	22,334	6/15/2018	C		11/30/2018
4500298566	OHM'S ELECTRICAL CORP 6510 CENTRAL AVE GLENDALE, NY 11385-6244 US	NYC HHC HARLEM HOSPITAL CENTER COMPREHENSIVE LIGHTING PROJECT	C	B	8	N	03	2		284,280	241,555	241,555	42,725	7/1/2018	C		8/30/2018
4500298578	O'CONNELL ELECTRIC CO 830 PHILLIPS RD VICTOR, NY 14564 US	TLEM PLATTSBURGH SUBSTATION SERVICE ELECTRICAL EQUIPMENT INSTALLATION	C	B		N	N	2		3,325,278	441,785	441,785	2,883,493	6/21/2018	O	6/11/2019	
4500298619	ASCENDANT STRATEGY MANAGEMENT GROUP LLC 75 ARLINGTON ST FL 5 BOSTON, MA 02116-3936 US	PERFORMANCE MANAGEMENT SAAS	S	C		F	N	6		708,910	81,183	81,183	627,727	7/9/2018	O	7/8/2023	
4500298621	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	PASSWORD MANAGER	I	B	6	F	04	3		29,860	29,860	29,860	0	6/19/2018	O	6/18/2019	
4500298699	ADOBE SYSTEMS INC 345 PARK AVE SAN JOSE, CA 95110-2704 US	ADOBE RENEWAL OF SUBSCRIPTION LICENSES	S	2	6	F	N	1		20,680	19,377	19,377	1,303	6/21/2018	O	2/21/2019	
4500298714	ATLAS PAINTING & SHEETING CORP 465 CREEKSIDE DR AMHERST, NY 14228-2112 US	BG HATCH PAINTING PHASE II	C	B		N	N	3		2,106,000	638,167	638,167	1,467,833	6/21/2018	O	12/31/2019	
4500298725	ALLIANCE FOR SUSTAINABLE ENERGY LLC 15013 DENVER WEST PKWY GOLDEN, CO 80401-3111 US	CYBER GOVERNANCE ASSESSMENT	P	1	8	N	N	1		50,000	50,000	50,000	0	6/22/2018	O	6/21/2019	
4500298727	9327-6806 QUEBEC INC 2B-1455 RUE DRUMMOND MONTREAL, PQ H3G 1W3 CA	EMTP/HYPERIM DEVELOPMENT OF THE NEW YORK STATE EXTRA HIGH VOLTAGE NETWORK FOR THE ADVANCED GRID INNOVATION LAB (AGILE)	P	1	8	F	N	1		115,000	0	0	115,000	6/29/2018	O	6/28/2019	

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4500298772	EVANS CONSOLES INC 1577 SPRING HILL RD STE 450 VIENNA, VA 22182 US	B-G CONTROL ROOM CONSOLE UPGRADE	E	2	8	N	N	1		143,682	0	0	143,682	6/25/2018	O	3/31/2019	
4500298783	CEMTEK ENVIROMENTAL INC 3041 ORANGE AVE SANTA ANA, CA 92707-4247 US	PROVIDE QUALIFIED PERSONNEL CEMS AND DAHS SOFTWARE MAINTENANCE	P	1	8	F	N	1		15,000	7,948	7,948	7,052	6/25/2018	C		7/31/2018
4500298838	MATHWORKS INC 3 APPLE HILL DR NATICK, MA 01760-2098 US	MAINTENANCE - MATLAB	S	1	8	N	N	1		99,888	99,888	99,888	0	1/1/2018	C		12/31/2018
4500298846	ROCKWELL COLLINS INC & SUBSIDIARIES 400 COLLINS RD NE CEDAR RAPIDS, IA 52498-0505 US	FUSION DATABASE KING AIR	S	1	5	N	N	1		12,300	12,300	12,300	0	6/27/2018	O	8/1/2019	
4500298866	SEATTLE SOFTWARE LTD TRADING AS ORBUS SOFTWARE FL 3 111 BUCKINGHAM PALACE RD LONDON, LO SW1W 05R GB	MAINTENANCE AND TRAINING - ORBUS	S	B	7	N	N	1		38,665	35,665	35,665	3,000	8/4/2018	O	8/3/2019	
4500298879	ROCKY MOUNTAIN INSTITUTE CARBON WAR ROOM 2490 JUNCTION PL STE 200 BOULDER, CO 80301-2167 US	CONSULTING SERVICES FOR EVOLVE NY	P	2		F	N	1		550,000	97,321	97,321	452,679	7/2/2018	O	12/31/2019	
4500298881	BLOUNT BOATS INC 461 WATER ST WARREN, RI 02885-3929 US	NIA - ICE BREAKER VESSEL II	E	B		F	N	3		4,191,764	757,504	757,504	3,434,260	6/28/2018	O	6/27/2020	
4500298922	SITECORE USA INC 2320 MARINSHIP WAY SAUSALITO, CA 94965-2812 US	MAINTENANCE - SITECORE	S	1	5	N	N	1		58,377	58,377	58,377	0	6/28/2018	O	6/27/2019	
4500298927	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	NETWORK OPERATIONS SWITCHES	E	B	7	N	04	5		36,147	36,147	36,147	0	6/28/2018	O	6/27/2019	
4500298943	STELLAR SERVICES INC 70 W 36TH ST - RM 702 NEW YORK, NY 10018-1258 US	MAINTENANCE - INFOBLOX	S	M	6	N	04	1		18,242	18,242	18,242	0	7/1/2018	O	6/30/2019	
4500298959	MICHELS CORP- MICHELS POWER DBA FOR M10 INC 1775 E SHADY LN NEENAH, WI 54956 US	COMMUNICATION BACKBONE GF-5 CONSTRUCTION PROJECT	C	B	8	F	N	3		3,212,756	2,975,605	2,975,605	237,151	6/29/2018	O	6/28/2019	
4500298974	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	RENEWAL OF RSA TECHNICAL SUPPORT FOR THE RSA TOKENS USED FOR MULTI-FACTOR AUTHENTICATION	S	B	6	N	04	4		10,800	10,800	10,800	0	6/27/2018	O	6/26/2019	
4500298975	CORPORATE EXECUTIVE BOARD 1919 NORHT LYNN ST ARLINGTON, VA 22209 US	CORPORATE EXECUTIVE BOARD PMO SUBSCRIPTION	S	1	9	F	N	1		102,900	33,300	33,300	69,600	7/1/2018	O	6/30/2021	
4500299023	SAF-GARD SAFETY SHOE CO 2701 PATTERSON ST GREENSBORO, NC 27407-2316 US	SAFETY SHOES	E	2	5	F	N	1		6,516	6,516	6,516	0	7/3/2018	C		12/31/2018
4500299046	PRESIDIO NETWORKED SOLUTIONS GROUP DBA FOR PRESIDIO HOLDINGS INC 30 STANFORD DR - STE 2 FARMINGTON, CT 06032-2453 US	CISCO SWITCHES FOR NEXUS PROJECT	H	B	7	F	N	4		35,000	35,000	35,000	0	7/5/2018	C		8/21/2018
4500299060	GARTNER INC PO BOX 911319 DALLAS, TX 75391-1319 US	GARTNER ADVISORY SERVICES	S	B	7	N	N	1		176,580	176,580	176,580	0	7/1/2018	O	6/30/2019	

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4500299062	OPEN ACCESS TECHNOLOGY INTERNATIONAL INC 3660 TECHNOLOGY DR MINNEAPOLIS, MN 55418-1015 US	TAGGING SERVICES	S	B	5	F	N	1		5,040	5,040	5,040	0	6/11/2018	O	6/10/2019	
4500299113	IBIS CONSULTING GROUP INC 205 NEWBURY ST STE 201 FRAMINGHAM, MA 01701-4581 US	UNCONSCIOUS BIAS TRAINING	P	2	6	F	N	1		43,000	40,966	40,966	2,034	6/20/2018	C		12/31/2018
4500299142	HEWLETT PACKARD ENTERPRISE CO 12010 SUNSET HILLS RD FL 3 RESTON, VA 20190-5856 US	MAINTENANCE - HP ENTERPRISE	S	B	7	N	N	1		59,922	44,535	44,535	15,387	1/1/2018	C		12/31/2018
4500299192	LEAD DATA TECHNOLOGIES INC PO BOX 295 NANUET, NY 10954-0295 US	LICENSE UPGRADE AND MAINTENANCE - CHECKPOINT	S	B	7	N	N	2		382,461	382,461	382,461	0	6/29/2018	O	6/28/2019	
4500299260	USABLENET INC 142 W 57TH ST - FL 7 NEW YORK, NY 10019-3300 US	MAINTENANCE - USABLENET	S	2	6	N	N	1		9,538	9,538	9,538	0	7/21/2018	O	7/20/2019	
4500299373	BARRETT PAVING MATERIALS INC 26572 NYS ROUTE 37 WATERTOWN, NY 13601-5833 US	HAWKINS POINT VISITOR CENTER PARKING AREA RECONSTRUCTION	C	B		N	N	3		1,941,774	1,618,235	1,618,235	323,539	8/13/2018	O	8/12/2019	
4500299391	NYS ENERGY RESEARCH & DEVELOPMENT AUTHORITY 17 COLUMBIA CIRCLE ALBANY, NY 12203-6399 US	BOOTH RENTAL AT NY AUTO SHOW	E	1	6	N	N	1		10,000	0	0	10,000	7/17/2018	C		7/31/2018
4500299399	ELMER W DAVIS INC 1217 CLIFFORD AVE ROCHESTER, NY 14621-5620 US	ROOF REPLACEMENT	C	B		N	N	2		269,480	0	0	269,480	7/17/2018	O	6/30/2019	
4500299452	RSI ROOFING INC 44 COUNTY RTE 9 - BOX 282B GOUVERNEUR, NY 13642-2565 US	LSD NORTH AND SOUTH GUARD TOWER ROOF REPLACEMENT PROJECT	C	B		N	01	3		79,000	79,000	79,000	0	9/10/2018	C		12/6/2018
4500299454	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	STARLING SOFTWARE LICENSES	S	B	6	N	N	5		7,502	7,502	7,502	0	7/18/2018	O	7/17/2019	
4500299472	R V P FLOORING SYSTEMS INC 35 COMMERCE DR STE B CARMEL, NY 10512-4211 US	MARCY OPERATIONS AND MAINTENANCE CENTER	E	1	8	N	03	1		13,053	13,053	13,053	0	7/18/2018	C		10/18/2018
4500299486	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	HP PROBOOK NOTEBOOK WITH ACCESSORIES AND MAINTENANCE	H	B	7	F	04	3		24,867	24,867	24,867	0	7/18/2018	C		8/6/2018
4500299495	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	REPLACEMENT OF UNDERGROUND FUEL TANKS WITH ABOVE GROUND TANKS	C	B		N	01	2		1,994,348	1,588,611	1,588,611	405,737	7/19/2018	O	7/15/2019	
4500299497	ONSOLVE INTERMEDIATE HOLDING CO ONSOLVE LLC 780 W GRANADA BLVD ORMOND BEACH, FL 32174 US	MAINTENANCE - SMARTNOTICE	S	1	6	F	N	1		16,000	16,000	16,000	0	3/22/2018	O	3/21/2019	
4500299506	PKA TECHNOLOGIES INC 1 EXECTIVE BLVD - STE 203 SUFFERN, NY 10901-4156 US	HP SERVER-POWERTECH LAB PROJECT	H	B	7	F	03	4		5,942	5,942	5,942	0	7/19/2018	C		8/30/2018
4500299520	JLT SPECIALTY INSURANCE SERVICES IN 225 W WACKER DR FL 5 CHICAGO, IL 60606-1280 US	OPTIMIZATION OF ANALYTICS TO IMPROVE RISK ANALYSIS	P	C		F	N	7		247,600	20,000	20,000	227,600	7/30/2018	O	1/29/2019	

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4500299521	PRESIDIO NETWORKED SOLUTIONS GROUP DBA FOR PRESIDIO HOLDINGS INC 30 STANFORD DR - STE 2 FARMINGTON, CT 06032-2453 US	ANNUAL SPARK ACTIVE USER WITH WEBEX	S	B	7	N	N	2		70,272	5,856	5,856	64,416	7/24/2018	O	7/23/2019	
4500299554	KENNY CONSTRUCTION COMPANY 2215 SANDERS RD STE 400 NORTHBROOK, IL 60062-6114 US	NERC CIP CYBER SECURITY UPGRADES	C	B		F	N	4		1,740,021	1,330,746	1,330,746	409,275	7/20/2018	O	7/19/2019	
4500299575	PRESIDIO NETWORKED SOLUTIONS GROUP DBA FOR PRESIDIO HOLDINGS INC 30 STANFORD DR - STE 2 FARMINGTON, CT 06032-2453 US	CISCO EQUIPMENT-COMMUNICATIONS BACKBONE	H	B	7	F	N	4		1,278,950	1,210,671	1,210,671	68,279	7/23/2018	C		10/3/2018
4500299601	IMMIXTECHNOLOGY INC 8444 WESTPARK DR - STE 200 MCLEAN, VA 22102-5112 US	MOBILE COMMUNICATIONS-SW MOBILE HOSTING SVC	S	B	6	N	N	1		39,902	39,902	39,902	0	8/11/2018	O	8/10/2019	
4500299608	SAP PUBLIC SERVICES INC RONALD REAGAN BLDG / ITC 1300 PENNSYLVANIA AVE NE - STE 600 WASHINGTON, DC 20004 US	ORDER FORM 16 MAINTENANCE FEE	S	1	8	N	N	1		75,059	75,059	75,059	0	1/1/2018	C		12/31/2018
4500299654	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	RED HAT SUBSCRIPTION SERVICES	S	B	7	N	N	2		18,955	18,955	18,955	0	7/26/2018	O	7/25/2019	
4500299655	SHI INTERNATIONAL CORP 5 W BANK ST COLD SPRING, NY 10516-2219 US	TABLEAU DESKTOP SOFTWARE	I	B	7	F	N	1		20,676	20,676	20,676	0	8/1/2018	O	7/31/2019	
4500299712	DELL MARKETING LP C/O DELL USA LP ONE DELL WAY MS RR3-58 ROUND ROCK, TX 78664-7000 US	VMWARE SOFTWARE LICENSE RENEWAL	S	B	7	N	N	1		120,410	120,410	120,410	0	7/1/2018	O	6/30/2019	
4500299719	IVANTI INC 698 W 10000 S STE 210 SOUTH JORDAN, UT 84095-4063 US	MAINTENANCE - INVANTI ENDPOINT MANAGEMENT AND SECURITY PREMIUM	S	2	6	F	N	2		16,240	16,240	16,240	0	7/29/2018	O	7/28/2019	
4500299841	XEROX CORPORATION PO BOX 660502 DALLAS, TX 75266-0502 US	LEASING OF THE V180B XEROX PRINTER, USAGE	H	B	7	N	N	1		192,636	0	0	192,636	8/10/2018	O	8/9/2023	
4500299863	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	PLATTSBURGH RELAY CABINETS	E	B		F	N	4		2,902,214	536,153	536,153	2,366,061	8/28/2018	O	7/31/2023	
4500299873	DELL MARKETING LP C/O DELL USA LP ONE DELL WAY MS RR3-58 ROUND ROCK, TX 78664-7000 US	VMWARE SOFTWARE LICENSE RENEWAL	S	B	7	N	N	1		37,271	37,271	37,271	0	8/8/2018	O	8/7/2019	
4500299889	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	MAINTENANCE - SOLARWINDS	S	B	7	N	N	1		37,041	37,041	37,041	0	8/31/2018	O	8/30/2019	
4500299904	MONROE EXTINGUISHER CO INC 105 DODGE ST ROCHESTER, NY 14606-1503 US	CO2 FIRE SUPPRESSION SYSTEM	C	B		N	N	1		128,658	0	0	128,658	8/1/2018	O	6/1/2019	
4500299911	LEARNING TREE INTERNATIONAL 1831 MICHAEL FARADAY DR RESTON, VA 20190-5304 US	ITIL TRAINING COURSE	S	B	5	F	N	1		11,950	11,750	11,750	200	8/1/2018	O	7/31/2019	

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4500299935	SOURCE IT TECHNOLOGIES LLC KARA HOMAN 24 EAST AVE - STE 244 NEW CANAAN, CT 06840-5529 US	PROVIDE HITACHI EQUIPMENT, SOFTWARE AND SUPPORT	S	B	7	N	03	3		699,177	699,177	699,177	0	8/1/2018	O	7/31/2019	
4500299969	CEMTEK ENVIROMENTAL INC 3041 ORANGE AVE SANTA ANA, CA 92707-4247 US	CEMS SOFTWARE SUPPORT	P	1	8	N	N	1		118,220	104,520	104,520	13,700	8/13/2018	O	8/12/2019	
4500300028	CITADEL ELECTRICAL SUPPLY COMPANY I 21 ROCKLAND PARK AVE TAPPAN, NY 10983-2617 US	CON EDISON Y-49 RELAY	E	B	6	N	02	1		66,875	66,875	66,875	0	8/8/2018	C		12/28/2018
4500300071	ORACLE AMERICA INC 500 ORACLE PKWY REDWOOD CITY, CA 94065-1677 US	LICENSES AND MAINTENANCE - ORACLE PRIMAVERA	S	2	8	F	N	1		221,430	191,483	191,483	29,947	8/6/2018	O	8/5/2019	
4500300078	PKA TECHNOLOGIES INC 1 EXECTIVE BLVD - STE 203 SUFFERN, NY 10901-4156 US	HP SERVER	H	B	7	F	03	5		6,201	6,201	6,201	0	8/6/2018	C		8/24/2018
4500300205	BRISTOL HARBOR GROUP INC 99 POPPASQUASH RD UNIT H BRISTOL, RI 02809-1018 US	CONTINUED DEVELOPMENT OF ICE BREAKING TUG FOR NEAR-TO-SHORE OPERATIONS IN THE LAKE ERIE-NIAGARA RIVER ICEBOOMS	A	1	8	F	N	1		75,640	8,925	8,925	66,715	8/3/2018	O	8/3/2021	
4500300328	DELLAVERSON PC 381 PARK AVE S RM 720 NEW YORK, NY 10016-8831 US	LEGAL SERVICES	L	2		N	N	1		150,000	50,000	50,000	100,000	8/14/2018	O	8/13/2019	
4500300354	DELL MARKETING LP C/O DELL USA LP ONE DELL WAY MS RR3-58 ROUND ROCK, TX 78664-7000 US	SOFTWARE AND MAINTENANCE - VMWARE	S	B	7	N	N	1		138,636	138,636	138,636	0	8/20/2018	O	8/19/2019	
4500300383	GRAVITY PRO CONSULTING LLC SYLVANA COCHE 21 VIA LAMPARA SAN CLEMENTE, CA 92673-7054 US	SAP SOFTWARE LICENSES	I	B	6	F	03	1		12,706	12,706	12,706	0	8/4/2018	O	8/3/2019	
4500300458	EXECUTIVE INFORMATION SYSTEMS LLC 6901 ROCKLEDGE DR STE 600 BETHESDA, MD 20827-0076 US	LICENSES AND MAINTENANCE - SAS ANALYTICS PRO	I	B	7	F	N	1		10,121	10,121	10,121	0	8/31/2018	O	8/30/2019	
4500300473	CDW GOVERNMENT INC 75 REMITTANCE DR - STE 1515 CHICAGO, IL 60675-1515 US	MAINTENANCE - NUANCE PDF	I	B	6	F	N	1		39,585	39,585	39,585	0	8/17/2018	O	8/16/2019	
4500300477	MILLENNIUM MAINTENANCE & ELECTRICAL CONTRACTORS INC 64 FREEMAN ST BROOKLYN, NY 11222-1328 US	DCAS CROWN HEIGHTS LIGHTING UPGRADE	C	B	5	N	04	4		33,665	0	0	33,665	8/20/2018	O	6/28/2019	
4500300482	SAP PUBLIC SERVICES INC RONALD REAGAN BLDG / ITC 1300 PENNSYLVANIA AVE NE - STE 600 WASHINGTON, DC 20004 US	WORKFORCE ANALYTICS IMPLEMENTATION	P	1	8	F	N	1		64,215	1,925	1,925	62,290	8/17/2018	O	8/16/2019	
4500300497	BIG BANG LLC 9851 S 27TH ST FRANKLIN, WI 53132-9533 US	MAINTENANCE - UNIVERSAL IMAGING UTILITY	S	2	6	N	N	2		5,640	5,640	5,640	0	8/19/2018	O	8/18/2019	
4500300595	GENSLER ARCHITECTURE DESIGN INC SUITE 400 10 NORTH PARK PLACE MORRISTOWN, NJ 07960 US	ARCHITECTURAL/MEP/IT/AV PROGRAMMING, CONCEPTUAL AND SCHEMATIC DESIGN SERVICES FOR NYPA'S WPO BUILDING RESTACKING PROJECT	A	2	8	F	N	1		634,255	188,117	188,117	446,138	10/18/2018	O	4/30/2019	

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4500300611	ROBERT HALF INTERNATIONAL INC 2613 CAMINO RAMON SAN RAMON, CA 94583-4289 US	STAFF AUGMENTATION SERVICES	S	2		N	N	1		108,800	49,507	49,507	59,293	8/28/2018	C		11/30/2018
4500300621	DOCPOINT SOLUTIONS LLC 8161 MAPLE LAWN BLVD - LOWER FL 2 FULTON, MD 20759-2597 US	MAINTENANCE - NINTEX	S	B	7	F	N	1		28,297	28,297	28,297	0	10/10/2018	O	10/9/2019	
4500300672	A & T SYSTEMS INC 12200 TECH RD - STE 200 SILVER SPRING, MD 20904-1971 US	MOBILE FIRST PROTECTION SERVICES	I	B	7	F	N	1		172,550	172,550	172,550	0	8/20/2018	O	8/19/2019	
4500300674	NORTH CAROLINA STATE UNIVERSITY OFFICE OF RESEARCH ADMINISTRATION 2701 SULLIVAN DR - BOX 7514 RALEIGH, NC 27695-7514 US	NYPA IS PARTICIPATING WITH NCSU FREEDM IN THE IMPLEMENTATION OF WIDE-AREA OSCILLATION DAMPING CONTROLLERS STUDY	P	2	9	F	N	1		15,000	15,000	15,000	0	8/16/2018	O	6/30/2019	
4500300718	MUTUALINK INC 1269 SOUTH BROAD ST WALLINGFORD, CT 06492-1737 US	MAINTENANCE - MUTUALINK	S	B	7	N	N	1		52,785	52,785	52,785	0	1/1/2018	C		12/31/2018
4500300746	CARDIAC LIFE PRODUCTS INC PO BOX 25755 ROCHESTER, NY 14625-0755 US	PROVIDE AED PROGRAM MANAGEMENT SERVICES	P	B	7	N	03	1		41,544	24,211	24,211	17,333	8/6/2018	C		9/30/2018
4500300748	CHB INDUSTRIES INC 1300 VETERANS MEMORIAL HWY STE 340 HAUPPAUGE, NY 11788-3078 US	REMOVAL AND INSTALLATION OF WINDOW FILM ON THE WPO BUILDING	C	2	8	N	03	1		200,000	27,670	27,670	172,330	9/4/2018	O	9/3/2019	
4500300779	MAUREEN DATA SYSTEMS INC 307 W 38TH ST RM 1801 NEW YORK, NY 10018-6510 US	MAINTENANCE - TENABLE	S	2	8	N	03	1		85,410	85,410	85,410	0	9/28/2018	O	9/27/2019	
4500300827	HINCKLEY ALLEN & SNYDER LLP 1000 WESTMINSTER ST STE 1500 PROVIDENCE, RI 02903 US	LEGAL SERVICES	L	2		N	N	1		25,000	1,882	1,882	23,118	8/29/2018	O	8/28/2019	
4500300828	SMIT TRANSFORMATOREN BV DBA FOR ROYAL SMIT TRANSFORMERS BV GROENESTRAAT 336 NIJMEGEN, 02 6531 JC NL	NIA AT-1 AUTO-TRANSFORMER	E	B		F	N	9		3,311,760	0	0	3,311,760	8/28/2018	O	12/31/2020	
4500301031	E J OCONNELL SENSOR DEPLOYMENT JV 4641 VERNON BLVD LONG ISLAND CITY, NY 11101-5308 US	SENSOR DEPLOYMENT PROGRAM PHASE II	C	B		N	N	4		76,172,208	9,786,075	9,786,075	66,386,133	9/5/2018	O	9/4/2023	
4500301067	ARIBA INC 910 HERMOSA CT SUNNYVALE, CA 94085-4199 US	ARIBA VENDOR VETTING SAAS	I	B		F	N	10		493,000	18,000	18,000	475,000	9/5/2018	O	9/4/2023	
4500301092	US GREEN BUILDING COUNCIL NY CHAP URBAN GREEN COUNCIL 55 BROAD ST FL 9 NEW YORK, NY 10004-2501 US	OPERATION AND MAINTENANCE TRAINING AND COACHING UNDER SUNY BROCKPORT WORKFORCE DEVELOPMENT PROGRAM	P	2	3	N	N	1		33,000	4,750	4,750	28,250	8/31/2018	O	8/31/2019	
4500301095	OPTIV SECURITY INC 1144 15TH ST STE 2900 DENVER, CO 80202-2571 US	PROOFPOINT SECURITY SOFTWARE	I	B	7	F	N	1		150,306	150,286	150,286	20	10/1/2018	O	9/30/2019	
4500301143	DOVETAIL PARTNERS INC 528 HENNEPIN AVE STE 703 MINNEAPOLIS, MN 55403-1814 US	RIGHT OF WAY (AUDIT)	S	1	8	N	N	1		36,000	20,000	20,000	16,000	9/7/2018	O	9/6/2023	

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4500301183	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	MAINTENANCE - NASTEL	S	B	6	N	04	3		35,584	35,584	35,584	0	9/29/2018	O	9/28/2019	
4500301310	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	CISCO EQUIPMENT	H	B	7	F	04	1		39,964	39,964	39,964	0	9/12/2018	C		9/26/2018
4500301336	EVANS CONSOLES INC 1577 SPRING HILL RD STE 450 VIENNA, VA 22182 US	FURNITURE	E	B	8	N	N	1		155,488	0	0	155,488	9/13/2018	O	9/12/2019	
4500301364	C D PERRY LLC PO BOX 866 TROY, NY 12181-0866 US	VISCHER FERRY DEBRIS/ICE BOOM PROJECT	C	C		N	01	3		706,929	0	0	706,929	9/13/2018	O	5/31/2019	
4500301392	REGIMENT TECHNOLOGY GROUP LLC 81 PONDFIELD RD - STE D279 BRONXVILLE, NY 10708-3818 US	LICENSES AND MAINTENANCE - MCAFEE SKYHIGH	I	2	8	N	02	1		111,606	111,606	111,606	0	8/29/2018	O	8/28/2019	
4500301479	STRUCTURAL PRESERVATION SYSTEMS INC 39 UTTER AVE HAWTHORNE, NJ 07506-2116 US	EMERGENCY GARAGE REPAIRS AT THE WHITE PLAINS OFFICE	C	2	8	N	N	1		90,255	85,880	85,880	4,375	9/18/2018	O	9/17/2019	
4500301559	ANSYS INC 2600 ANSYS DR CANONSBURG, PA 15317-0404 US	ANNUAL LEASE FOR ANSYS SOFTWARE	I	B	7	F	N	1		6,032	6,032	6,032	0	10/25/2018	O	10/24/2019	
4500301569	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	MAINTENANCE - AUTOCAD	I	B	7	F	N	1		103,698	103,698	103,698	0	10/27/2018	O	10/26/2019	
4500301641	CDW COMPUTER CENTER INC CDW GOV'T SALES 200/230 N MILWAUKEE AVE VERNON HILLS, IL 60061 US	APPLE PORTABLE DEVICES	H	B	6	F	N	3		14,760	14,760	14,760	0	9/21/2018	C		9/27/2018
4500301642	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	HP PORTABLE DEVICES	H	B	6	N	04	3		13,248	13,248	13,248	0	9/21/2018	C		10/4/2018
4500301740	SHI INTERNATIONAL CORP 290 DAVIDSON AVE SOMERSET, NJ 08873-4145 US	MAINTENANCE - TABLEAU	I	B	7	F	N	1		33,570	33,570	33,570	0	11/7/2018	O	11/6/2019	
4500301771	SCIPAR INC 26 W SPRING ST - PO BOX 400 BUFFALO, NY 14231-0400 US	GENERATION CONTROL SYSTEM (GCS) HMI	R	B		N	N	2		634,565	0	0	634,565	10/1/2018	O	9/30/2019	
4500301917	O'BRIEN & GERE / DEWBERRY ENERGY SERVICES JOINT VENTURE 333 W WASHINGTON - STE 400 SYRACUSE, NY 13202-9202 US	OPERATION AND MAINTENANCE TRAINING AND COACHING UNDER SUNY BROCKPORT WORKFORCE DEVELOPMENT PROGRAM	A	2	8	N	N	1		175,000	0	0	175,000	10/1/2018	O	9/9/2019	
4500301923	D A COLLINS CONSTRUCTION CO INC 269 BALLARD RD WILTON, NY 12831-1357 US	VISCHER FERRY SMALL HYDROELECTRIC PLANT SCOUR HOLE REPAIR ON DAM F APRON	C	C		N	N	2		350,000	0	0	350,000	10/1/2018	O	6/30/2019	
4500302028	TRUVIEW BSI LLC 390 RXR PLAZA UNIONDALE, NY 11556-0390 US	BACKGROUND SECURITY SERVICES	S	B		N	02	6		933,461	0	0	933,461	8/1/2017	O	8/23/2020	
4500302104	STEEL SALES INC PO BOX 539 8085 STATE HIGHWAY 12 SHERBURNE, NY 13460 US	WEATHERING STEEL PROJECT MATERIALS	E	1	8	N	03	1		70,930	0	0	70,930	10/5/2018	O	1/30/2019	

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4500302125	B2GNOW DBA FOR ASKREPLY INC 725 W MCDOWELL RD PHOENIX, AZ 85007-1727 US	ONBOARDING AND MAINTENANCE - B2GNOW	S	1	6	N	N	1		29,700	0	0	29,700	10/22/2018	O	10/21/2019	
4500302206	THREETECH ELECTRIC INC 7812 METROPOLITAN AVE MIDDLE VILLAGE, NY 11379-2965 US	LIGHTING UPGRADE FOR NYPD PRECINCT 77	C	B	5	N	04	3		76,200	0	0	76,200	10/12/2018	O	4/15/2019	
4500302262	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	EQUIPMENT AND MAINTENANCE - HITACHI	H	B	7	N	04	3		43,026	43,026	43,026	0	10/11/2018	C		10/22/2018
4500302263	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	TRUE UP LICENSES AND MAINTENANCE - QUEST	I	B	7	F	N	1		78,997	78,997	78,997	0	10/31/2018	O	10/30/2019	
4500302278	AMETEK POWER INSTRUMENTS 255 N UNION ST ROCHESTER, NY 14605-2644 US	PHASOR MEASUREMENT UNITS (PMU)	E	2	1	N	N	1		80,970	80,970	80,970	0	10/19/2018	C		12/11/2018
4500302304	ARCA RECYCLING INC 175 JACKSON AVE N STE 102 HOPKINS, MN 55343-4565 US	NEW REFRIGERATORS FOR MASSENA PUBLIC HOUSING AUTHORITY	E	B		N	N	1		197,014	0	0	197,014	11/28/2018	C		12/31/2018
4500302418	SHI INTERNATIONAL CORP 290 DAVIDSON AVE SOMERSET, NJ 08873-4145 US	SPLUNK RENEWAL	I	B	7	F	N	4		136,131	136,130	136,130	1	10/4/2018	O	10/3/2019	
4500302419	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	TRUE UP LICENSES AND MAINTENANCE	I	B	7	F	N	1		5,980	5,980	5,980	0	10/17/2018	O	10/16/2019	
4500302471	LIGHTING DESIGN INNOVATIONS INC 2804 WEST MAIN STREET RD BATAVIA, NY 14020-9106 US	CUNY LEHMAN AND QUEENS COLLEGE LIGHTING TECHNOLOGIES PROJECT	C	1	8	N	N	1		111,150	0	0	111,150	10/22/2018	O	10/21/2019	
4500302473	SOURCE IT TECHNOLOGIES LLC KARA HOMAN 24 EAST AVE - STE 244 NEW CANAAN, CT 06840-5529 US	HITACHI EQUIPMENT AND SERVICES	H	B	7	F	03	3		248,915	225,602	225,602	23,313	10/18/2018	C		12/11/2018
4500302537	WINSHUTTLE LLC 19820 N CREEK PARKWAY STE 200 BOTHELL, WA 98011-8227 US	MAINTENANCE - WINSHUTTLE	S	2	6	N	N	1		11,940	11,940	11,940	0	10/22/2018	O	10/21/2019	
4500302540	URBAN FLOORING SYSTEMS DBA FOR L FRANK URBAN INC 2345 ROUTE 52 STE 2A HOPEWELL JUNCTION, NY 12533-3220 US	FURNISH AND DELIVER CARPETING AT CONTROL ROOM BLENHEIM GILBOA POWER PROJECT	E	B			N	04	1		10,825	0	0	10,825	10/19/2018	C		12/31/2018
4500302542	SCHWEITZER ENGINEERING LAB INC SEL ENGINEERING SERVICES INC 2350 NE HOPKINS CT PULLMAN, WA 99163-5600 US	Y-49 SEL-411L TRAVELING WAVE SETTINGS - SEL ENGINEERING	A	1			N	N	1		11,035	0	0	11,035	10/19/2018	O	10/18/2019	
4500302543	NETBRAIN TECHNOLOGIES INC 15 NETWORK DR BURLINGTON, MA 01803-2756 US	MAINTENANCE - NETBRAIN	S	2	6	N	N	1		9,000	9,000	9,000	0	8/15/2018	O	8/14/2019	
4500302550	NORIA CORP 1328 E 43RD CT TULSA, OK 74105-4124 US	LUBRICATION MANAGEMENT AND ANALYSIS PROGRAMS	A	B			N	N	1		64,869	0	0	64,869	10/22/2018	C		12/31/2018

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4500302588	SAFESPAN SCAFFOLDING LLC 252 FILLMORE AVE TONAWANDA, NY 14150 US	SCAFFOLDING SERVICES CENTRAL REGION	C	2	8	N	N	1		80,000	0	0	80,000	12/6/2018	O	12/5/2019	
4500302801	LC INTERPRETING SERVICES LLC 350 WARREN ST STE 746 JERSEY CITY, NJ 07302-2590 US	INTERPRETING SERVICES	P	2	5	N	N	1		6,831	6,831	6,831	0	7/12/2018	C		8/3/2018
4500302826	GOODMART LIGHTING AND ELECTRICAL SUPPLY 232 MADISON AVE FL 3 NEW YORK, NY 10016-2953 US	TEST EQUIPMENT FOR SAMAC SUPPORT	E	C	9	N	N	2		8,439	5,613	5,613	2,826	10/30/2018	O	3/30/2019	
4500302830	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	MAINTENANCE - SOLARWINDS	P	B	7	F	N	1		35,976	35,976	35,976	0	11/22/2018	O	11/21/2019	
4500302857	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	CYBER SECURITY ASSESSMENT	P	B	7	N	N	1		162,673	81,337	81,337	81,336	11/1/2018	O	10/31/2019	
4500302927	USIC LOCATING SERVICES LLC DBA FOR LOCATE HOLDINGS INC 9045 RIVER RD STE 300 INDIANAPOLIS, IN 46240-6400 US	DIG SAFE SERVICES	A	B		N	N	2		694,000	0	0	694,000	11/1/2018	O	9/30/2023	
4500302958	AKAMAI TECHNOLOGIES INC 150 BORADWAY - STE 100 CAMBRIDGE, MA 02142-1055 US	SOFTWARE TO MONITOR INTERNET TRAFFIC	I	B	7	F	N	1		101,660	25,415	25,415	76,245	12/1/2018	O	11/30/2019	
4500302962	CARAHSOFT TECHNOLOGY CORPORATION SUITE 100 1860 MICHAEL FARADAY DRIV RESTON, VA 20190 US	SOFTWARE, MAINTENANCE, TRAINING - EGRC	I	B	7	F	N	1		1,097,629	317,022	317,022	780,607	11/2/2018	O	11/1/2021	
4500302983	SCHWEITZER ENGINEERING LAB INC C/O ROBINSON SALES INC 100 W SIXH ST - STE 4 MEDIA, PA 19063-2433 US	LINE FAULT LOCATION AND PROTECTION INSTRUMENTS FOR FIELD TRIAL	E	2	5	F	N	1		29,500	29,500	29,500	0	11/2/2018	C		12/31/2018
4500303071	OMICRON ELECTRONICS CORP USA 3550 WILLOWBEND BLVD HOUSTON, TX 77054-1127 US	OMICRON EQUIPMENT	E	C	8	F	N	5		83,720	0	0	83,720	11/5/2018	O	11/4/2019	
4500303086	HARTMANN FINE ARTS SERV INC 321 WEST OLD YORK RD CARLISLE, PA 17015 US	BENTON MURALS REMOVAL AND CONSERVATION	C	B		F	N	3		116,077	0	0	116,077	11/9/2018	O	11/8/2019	
4500303112	OPEN TEXT INC 951 MARINERS ISLAND BLVD - FL 7 SAN MATEO, CA 94404-1561 US	MAINTENANCE - OPENTEXT FOR STREAMSERVE DOCUMENT PRESENTMENT FOR SAP SOLUTIONS	I	B	7	F	N	1		17,372	17,372	17,372	0	12/1/2018	O	11/30/2019	
4500303134	ANSYS INC 2600 ANSYS DR CANONSBURG, PA 15317-0404 US	MAINTENANCE - ANSYS	I	B	7	F	N	1		14,019	14,019	14,019	0	12/1/2018	O	11/30/2019	
4500303135	STEEL FAB INC 430 CRAWFORD ST - PO BOX 2145 FITCHBURG, MA 01420-6808 US	CRESCENT PLANT TAINTER GATE	E	B		F	N	3		750,000	0	0	750,000	11/20/2018	O	11/19/2019	
4500303150	DEVELOPMENT AUTHORITY OF THE NORTH COUNTRY 317 WASHINGTON ST WATERTOWN, NY 13601 US	DARK FIBER MASTER LEASE AGREEMENT	S	1	8	N	N	1		1,061,004	959,524	959,524	101,480	10/1/2018	O	9/30/2038	

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4500303161	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	MAINTENANCE - GLOBALSCAPE SOFTWARE	I	B	7	F	N	1		18,181	0	0	18,181	11/8/2018	O	11/7/2019	
4500303181	MPREST SYSTEMS (2003) LTD 94 EM HAMOSHAVOT RD - PARK AZORIM KIRYAT ARIE PETACH TIKVA, 01 49130 IL	MAINTENANCE AGREEMENT FOR TRANSFORMER COMMAND AND CONTROL SYSTEM	R	2	8	F	N	1		686,250	0	0	686,250	11/8/2018	O	11/7/2023	
4500303250	PERRAS CONSTRUCTION SERVICES INC 1909 STATE HIGHWAY 420 MASSENA, NY 13662-3344 US	PARKS TRAILER RELOCATION	C	2	1	N	N	1		72,292	0	0	72,292	11/9/2018	O	2/28/2019	
4500303304	ROBERT G GANSER DBA TRANSFORMER CONSULTING SERVICES 2815 SAXON ST NE CANTON, OH 44721-3744 US	DESIGN REVIEW SERVICES OF MANUFACTURER DESIGN DOCUMENTS OF THE AUTHORITY'S FACILITIES IN WHITE PLAINS, NY	A	B	5	N	N	3		12,000	0	0	12,000	11/13/2018	O	11/30/2019	
4500303322	TRIANGLE MICROWORKS INC 2840 PLAZA PL STE 205 RALEIGH, NC 27612 US	PROVIDE SOFTWARE LICENSES	I	B	6	F	N	1		12,300	12,300	12,300	0	11/1/2018	O	10/30/2019	
4500303352	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	IVANTI LUMENSION PATCH AND REMEDIATION, IVANTI ENDPOINT AND SECURITY PREMIUM	I	B	6	N	04	1		7,024	7,024	7,024	0	11/1/2018	O	10/31/2019	
4500303359	SYSTEM IMPROVEMENTS INC 238 S PETERS RD - STE 301 KNOXVILLE, TN 37923-5224 US	MAINTENANCE - TAPROOT	S	1	6	N	N	1		6,899	6,899	6,899	0	12/1/2018	O	11/30/2019	
4500303394	SECURITAS ELECTRONIC SECURITY INC 3800 TABS DR UNIONTOWN, OH 44685-9564 US	SECURITY SYSTEM AT NYCDEP NEVERSINK TUNNEL OUTLET (NTO)	C	B	8	N	N	1		390,703	0	0	390,703	11/20/2018	O	11/4/2019	
4500303413	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	SOFTWARE LICENSE, MEINBERG PROTOCOL	I	B	6	N	04	1		5,596	0	0	5,596	12/3/2018	O	12/2/2019	
4500303444	ABB INDUSTRIAL SOLUTIONS CANADA INC 180 CONSTELLATION DR STONEY CREEK, ON L8E 6B2 CA	REMOVE, REFURBISH, DELIVER, INSTALL GSU'S AT 500MW COMBINED CYCLE POWER PLANT	E	B		F	N	1		5,284,778	769,500	769,500	4,515,278	7/1/2018	O	3/30/2021	
4500303474	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	MAINTENANCE - CLOUDERA	S	B	7	F	N	1		42,500	0	0	42,500	11/19/2018	O	11/17/2019	
4500303475	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	QUEST ARCHIVE MANAGER	I	B	7	F	N	1		18,575	0	0	18,575	11/19/2018	O	11/18/2019	
4500303476	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	AUTOCAD RENEWAL	S	B	7	F	N	1		5,241	0	0	5,241	11/19/2018	O	11/18/2019	
4500303477	SS & C TECHNOLOGIES INC 80 LAMBERTON RD - STE 7 WINDSOR, CT 06095-2150 US	DBC FINANCE RENEWAL	I	1	5	N	N	1		12,854	12,854	12,854	0	11/19/2018	O	11/18/2019	
4500303510	GOTHAM GOVERNMENT SOLUTIONS LLC 1 PARAGON DR STE 200 MONTVALE, NJ 07645-1728 US	MAINTENANCE - VARONIS	I	B	7	F	N	1		41,292	0	0	41,292	12/30/2018	O	12/29/2019	

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4500303551	SOURCE IT TECHNOLOGIES LLC KARA HOMAN 24 EAST AVE - STE 244 NEW CANAAN, CT 06840-5529 US	HITACHI REPLICATION LICENSE AND SUPPORT	I	B	7	F	03	3		95,333	0	0	95,333	11/25/2018	O	3/30/2019	
4500303570	SIEMENS INDUSTRY INC 7000 SIEMENS RD WENDELL, NC 27591-8309 US	SIEMENS TEST EQUIPMENT	E	C	6	F	N	3		23,435	0	0	23,435	11/26/2018	O	11/25/2019	
4500303588	KONE INC 25 POST RD STE 4 ALBANY, NY 12205-6736 US	BG ELEVATORS SERVICES	C	B		N	N	1		62,370	0	0	62,370	11/26/2018	O	4/1/2019	
4500303648	MOEV INC 525 S HEWITT ST LOS ANGELES, CA 90013-2217 US	EV CHARGERS FOR THE GALLERIA PARKING GARAGE	E	2	5	F	N	1		26,300	0	0	26,300	11/28/2018	O	12/31/2020	
4500303707	LUKEN ELECTRIC DBA FOR LINDEN ELECT WHOLESALERS 725 SAINT GEORGE AVE ROSELLE, NJ 07203-2690 US	GE TEST AND RELAY EQUIPMENT	E	C	6	F	04	4		56,777	0	0	56,777	11/29/2018	O	11/28/2019	
4500303716	ALIANZA SERVICES LLC 74 N BROADWAY - 2ND FL SOUTH NYACK, NY 10960-2628 US	FURNITURE	E	B	7	N	04	1		23,029	0	0	23,029	11/29/2018	O	11/28/2019	
4500303724	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	DELL DATA PROTECTION (DDPE) ROADRUNNER	I	B	7	N	04	2		12,746	12,746	12,746	0	12/15/2018	O	11/28/2019	
4500303733	ALIANZA SERVICES LLC 74 N BROADWAY - 2ND FL SOUTH NYACK, NY 10960-2628 US	FURNITURE	E	B	7	N	04	1		30,424	0	0	30,424	11/29/2018	O	11/28/2019	
4500303737	ALIANZA SERVICES LLC 74 N BROADWAY - 2ND FL SOUTH NYACK, NY 10960-2628 US	FURNITURE	E	B	7	N	04	1		172,447	0	0	172,447	11/29/2018	O	11/28/2019	
4500303755	VISTACOM INC 1902 VULTEE ST ALLENTOWN, PA 18103 US	MAINTENANCE - NOC VIDEO WALL SYSTEM	S	B	7	N	N	1		29,500	0	0	29,500	12/1/2018	O	11/30/2019	
4500303756	MAINE TECHNICAL SOURCE 787 OLD ROUTE 9 NORTH WAPPINGERS FALLS, NY 12590 US	LEICA BLK360 3D SCANNER	E	2	8	N	N	1		19,630	0	0	19,630	12/3/2018	O	12/2/2019	
4500303768	ARIBA INC 910 HERMOSA CT SUNNYVALE, CA 94085-4199 US	ARIBA SOURCING SOFTWARE AND HOSTING	I	1	8	F	N	1		367,444	367,444	367,444	0	11/30/2018	O	11/29/2019	
4500303778	VERIZON CONNECT NWF INC 9868 SCRANTON RD SAN DIEGO, CA 92121 US	VEHICLE FLEET TRACKING SERVICES	P	B	7	N	N	1		77,289	0	0	77,289	12/7/2018	O	12/6/2019	
4500303785	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	APC EQUIPMENT FOR THE COMMUNICATIONS BACKBONE PROJECT	H	C	5	F	04	4		13,341	13,341	13,341	0	11/30/2018	C		12/26/2018
4500303845	TROUTMAN SANDERS LLP ATTORNEYS AT LAW 401 9TH ST NW - STE 1000 WASHINGTON, DC 20004-2146 US	LEGAL SERVICES	L	2		F	N	1		100,000	0	0	100,000	11/12/2018	O	11/11/2019	
4500303879	SIRIUS COMPUTER SOLUTIONS INC 101000 REUNION PLACE STE 500 SAN ANTONIO, TX 78216 US	MAINTENANCE - IBM	S	B	7	N	N	1		122,001	0	0	122,001	9/1/2018	O	8/31/2019	
4500303897	GIANT INNOVATION DBA FOR HMW INNOVATE LLC 132 E 43RD ST UNIT 419 NEW YORK, NY 10017 US	INNOVATION TRAINING WORKSHOPS	P	2	8	N	N	1		150,000	0	0	150,000	12/5/2018	O	12/4/2019	

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4500304018	CITY OF WHITE PLAINS COMMISSIONER OF PUBLIC WORKS 255 MAIN ST WHITE PLAINS, NY 10601 US	PARKING GARAGE PERMITS	S	2		N	N	1		53,600	26,800	26,800	26,800	12/14/2018	O	6/30/2019	
4500304042	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	FURNISH AND DELIVER ABB TEST EQUIPMENT	E	C	5	N	N	1		45,178	0	0	45,178	12/10/2018	O	12/9/2019	
4500304096	HP INC 1501 PAGE MILL RD PALO ALTO, CA 94304-1126 US	HP ELITEDISPLAY S340C CURVED MONITORS	H	B	7	F	N	1		115,500	0	0	115,500	12/11/2018	O	1/8/2019	
4500304105	COVINGTON & BURLING LLP 1 FRONT ST SAN FRANCISCO, CA 94111 US	LEGAL SERVICES	L	2		N	N	1		25,000	6,250	6,250	18,750	8/1/2018	O	7/31/2019	
4500304121	HP INC 1501 PAGE MILL RD PALO ALTO, CA 94304-1126 US	HP ELITEBOOK LAPTOPS/MAINTENANCE/CASE	H	B	7	F	N	1		375,632	0	0	375,632	12/11/2018	O	3/20/2019	
4500304198	OMICRON ELECTRONICS CORP USA 3550 WILLOWBEND BLVD HOUSTON, TX 77054-1127 US	FURNISH AND DELIVER OMICRON TEST EQUIPMENT	E	C	6	F	N	2		123,450	0	0	123,450	12/13/2018	O	12/12/2019	
4500304233	TESSELLATE STUDIO DBA FOR TESSELLATE LLC 153 E 32ND ST APT 3M NEW YORK, NY 10016-0011 US	MOBILE EXHIBIT	E	M	8	N	04	1		188,200	0	0	188,200	12/21/2018	O	7/31/2019	
4500304264	CANON SOLUTIONS AMERICA INC 125 PARK AVE FRNT 2 NEW YORK, NY 10017-5599 US	MAINTENANCE - OCE COLORWAVE 650 AND TCS SCANNER	I	B	6	F	N	1		15,688	0	0	15,688	9/1/2018	O	8/31/2019	
4500304296	CARAHSOFT TECHNOLOGY CORPORATION SUITE 100 1860 MICHAEL FARADAY DRIV RESTON, VA 20190 US	MAINTENANCE - SAP NS2	I	B	7	F	N	1		700,765	0	0	700,765	12/17/2018	O	12/16/2019	
4500304320	R V P FLOORING SYSTEMS INC 35 COMMERCE DR STE B CARMEL, NY 10512-4211 US	MARCY SUBSTATION CARPET INSTALL	E	B	7	N	03	1		11,201	0	0	11,201	12/18/2018	C		12/31/2018
4500304332	INFORMATION TECHNOLOGY CORP OF THE TRI STATES 121 GERTRUDE AVE PARAMUS, NJ 07652-2515 US	APPLE IMAC PRO COMPUTER AND WARRANTY	H	B	5	F	N	1		30,393	0	0	30,393	12/18/2018	O	12/17/2019	
4500304389	LEIDOS ENGINEERING LLC 11951 FREEDOM DR RESTON, VA 20190-5640 US	OPGW DESIGN MARCY SOUTH	A	B		N	N	14		393,195	0	0	393,195	12/19/2018	O	12/31/2021	
4500304391	POWER ENGINEERS CONSULTING A PROFESSIONAL SERVICE CORP 3940 GLENBROOK DR HAILEY, ID 83333-8446 US	OPGW DESIGN MMS AND MSU	A	B		N	N	14		1,144,510	0	0	1,144,510	12/19/2018	O	12/31/2021	
4500304393	SNC LTD 150 STATE ST - STE 120 ROCHESTER, NY 14614-1353 US	OPGW DESIGN NATL	A	B		N	N	14		421,036	0	0	421,036	12/19/2018	O	12/31/2021	
4500304395	TRC ENGINEERS INC 215 GREENFIELD PKWY - STE 102 LIVERPOOL, NY 13088-6651 US	OPGW OWNERS ENGINEER	A	B		N	N	14		642,040	0	0	642,040	12/19/2018	O	12/31/2021	
4500304420	SUBSTATION ENGINEERING CO 300 MAIN ST STE 2 VESTAL, NY 13850-1545 US	OPGW DESIGN MOSES-WILLIS-PLATTSBURG (MWP)	A	B		N	N	14		163,550	0	0	163,550	12/19/2018	O	12/31/2021	

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4500304421	WESPIRE INC 180 LINCOLN ST STE 3 BOSTON, MA 02111-2400 US	WESPIRE HOSTED AGREEMENT	S	1	5	F	N	1		23,460	23,460	23,460	0	12/19/2018	O	12/18/2019	
4500304422	SABRE INDUSTRIES INC 8653 E HIGHWAY 67 ALVARADO, TX 76009-4012 US	RM-AD MA1-MA2 STEEL POLE STRUCTURES AB CAGES	E	B		F	N	4		79,622,236	0	0	79,622,236	12/28/2018	O	12/27/2022	
4500304498	COMMUNICATIONS TRAINING ANALYSIS CORPORATION 3120 FAIRVIEW PARK DR STE 600 FALLS CHURCH, VA 22042-4571 US	AMAZON WEB SERVICES	S	B	7	F	N	2		56,100	0	0	56,100	12/21/2018	O	12/20/2019	
4500304500	RESOLVER INC 111 PETER ST STE 804 TORONTO, ON M5V 2H1 CA	SUBSCRIPTION RENEWAL	I	1	5	F	N	1		10,300	0	0	10,300	12/21/2018	O	12/20/2019	
4500304516	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	HP ELITE X2 TABLETS, CASES, MAINTENANCE	H	B	7	F	04	4		22,200	0	0	22,200	12/24/2018	O	1/14/2019	
4500304567	SIEMENS INDUSTRY INC 10900 WAYZATA BLVD - STE 400 MINNETONKA, MN 55305-5602 US	SECURITY PATCH MANAGEMENT	S	1	8	F	N	1		183,600	0	0	183,600	12/27/2018	O	12/26/2019	
4500304570	SIEMENS INDUSTRY INC 10900 WAYZATA BLVD - STE 400 MINNETONKA, MN 55305-5602 US	MARCY SPECTRUM POWER 3	S	1	8	F	N	1		420,232	0	0	420,232	12/27/2018	O	12/26/2019	
4500304573	SIEMENS INDUSTRY INC 10900 WAYZATA BLVD - STE 400 MINNETONKA, MN 55305-5602 US	MAINTENANCE - SPECTRUM	S	1	8	F	N	1		396,167	0	0	396,167	12/27/2018	O	12/26/2019	
4500304593	POWERRUNNER LLC 145 SOUTH RD BRENTWOOD, NH 03833-6301 US	MAINTENANCE - POWERRUNNER MANAGED SERVICES	S	1	8	N	N	1		65,000	0	0	65,000	12/1/2018	O	11/30/2019	
4500304608	SENTEC PROMOTIONS INC SUSIE SPECIALTIES 3960 HARLEM RD - STE 8 AMHERST, NY 14226-4706 US	PROMOTIONAL MATERIAL	E	2	6	F	03	1		8,961	0	0	8,961	12/28/2018	O	2/22/2019	
4500304609	SENTEC PROMOTIONS INC SUSIE SPECIALTIES 3960 HARLEM RD - STE 8 AMHERST, NY 14226-4706 US	PROMOTIONAL MATERIAL	E	2	6	F	03	1		20,027	0	0	20,027	12/28/2018	O	2/22/2019	
4500304631	INFORMATION TECHNOLOGY CORP OF THE TRI STATES 121 GERTRUDE AVE PARAMUS, NJ 07652-2515 US	APPLE IMAC PRO COMPUTER AND WARRANTY	H	B	6	N	N	2		13,866	0	0	13,866	12/31/2018	O	12/30/2019	
4500304635	NEW YORK SUN WORKS INC 157 COLUMBUS AVE FL 4 NEW YORK, NY 10023-6083 US	NY SUN WORKS-GREEN CLASSROOM INITIATIVE	P	2	8	N	N	1		51,000	0	0	51,000	12/19/2018	O	1/31/2019	
4500304659	CDW COMPUTER CENTER INC CDW GOV'T SALES 200/230 N MILWAUKEE AVE VERNON HILLS, IL 60061 US	MAINTENANCE - VMWARE	S	B	7	N	N	1		12,463	0	0	12,463	12/30/2018	O	12/29/2019	
4500305115	IMMIXTECHNOLOGY INC 8444 WESTPARK DR - STE 200 MCLEAN, VA 22102-5112 US	MAINTENANCE - ETM	S	B	6	F	N	1		9,466	0	0	9,466	1/1/2018	O	12/31/2019	
4500306023	BLOOMBERG LP 499 PARK AVE NEW YORK, NY 10022-1240 US	BLOOMBERG ANYWHERE SUBSCRIPTION	S	1	5	N	N	1		25,000	0	0	25,000	12/6/2018	O	12/5/2019	

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4600001946	RCM TECHNOLOGIES INC FACILITIES DESIGN & CONSTRUCTION 2500 MCCLELLAN AVE - STE 350 PENNSAUKEN, NJ 08109-4617 US	PROGRAM MANAGEMENT AND IMPLEMENTATION SERVICES - SOUTHEAST NEW YORK ENERGY SERVICES PROGRAM	C	B		N	N	6		195,000,000	130,875,651	1,202,441	64,124,349	6/1/2008	O	12/31/2019	
4600002135	WSP USA INC ONE PENN PLZ - FL 2 NEW YORK, NY 10119-0021 US	PROGRAM MANAGEMENT AND IMPLEMENTATION SERVICES - SOUTHEAST NEW YORK ENERGY SERVICES PROGRAM	C	B		N	N	10		99,000,000	82,076,230	3,466,278	16,923,770	7/1/2009	O	12/31/2019	
4600002274	EYP ARCHITECTURE & ENGINEERING PC 1ST FL NANOFAB EAST - 257 FULLER RD ALBANY, NY 12203-3613 US	PROGRAM MANAGEMENT AND IMPLEMENTATION SERVICES - STATEWIDE NEW YORK ENERGY SERVICES PROGRAM	C	B		N	N	11		10,000,000	2,951,715	908,857	7,048,285	5/26/2010	C		8/31/2018
4600002316	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	INTAKE GATES AND DRAFT TUBE GATES REFURBISHMENT	S	B		N	01	7		15,727,342	10,506,201	1,481,170	5,221,141	7/28/2010	O	12/30/2023	
4600002436	EATON CORP 690 RAHWAY AVE UNION, NJ 07083-6632 US	CONTROL SYSTEM INTEGRATION PROJECT AT LEWISTON PUMP GENERATING PLANT	C	B		F	N	5		13,222,139	12,453,846	107,778	768,293	9/27/2011	O	11/27/2020	
4600002457	GE ENERGY CONTROL SOLUTIONS INC 1800 NELSON RD LONGMONT, CO 80501-6324 US	DESIGN, FURNISH, AND DELIVER 12 STATIC EXCITATION SYSTEMS	E	B		F	N	5		4,753,221	4,599,475	32,157	153,746	12/2/2011	O	12/31/2021	
4600002500	FERGUSON ELECTRIC CONSTRUCTION CO INC 333 ELLICOTT ST BUFFALO, NY 14203-1618 US	DESIGN, FURNISH, DELIVER AND INSTALL THE ISO PHASE BUS AND PHASE REVERSAL SWITCH AT THE LEWISTON PUMP GENERATING PLANT	C	B		N	N	4		1,606,385	1,551,585	6,800	54,800	3/27/2012	O	3/26/2019	
4600002506	ULTRA ELECTRONICS OCEAN SYSTEMS 115 BAY STATE DR BRAINTREE, MA 02184-5203 US	INSTALLATION, MAINTENANCE, AND REMOVAL OF THE FISH DETERRENT SYSTEMS	S	B		N	N	1		1,000,000	688,215	120,781	311,785	5/1/2012	O	4/30/2019	
4600002526	FBMC BENEFITS MANAGEMENT INC 3101 SESSIONS RD TALLAHASSEE, FL 32303-2874 US	WEB ENROLLMENT AND BENEFITS/COMPENSATION STATEMENTS SERVICES	S	B		F	N	3		350,000	237,548	0	112,452	6/1/2012	C		1/31/2018
4600002534	ANDRITZ HYDRO CORP 10735 DAVID TAYLOR DR - STE 500 CHARLOTTE, NC 28262-1289 US	MOTOR GENERATOR UPGRADE	C	B		F	N	5		81,865,575	39,795,797	12,018,381	42,069,778	7/1/2012	O	12/31/2022	
4600002544	UNDERGROUND SYSTEMS INC 3A TROWBRIDGE DR BETHEL, CT 06801-2858 US	PROVIDE EMERGENCY REPAIR SERVICES FOR UNDERGROUND POWER CABLES STATEWIDE	C	B		N	N	2		5,000,000	1,983,191	1,235,712	3,016,809	7/16/2012	C		7/15/2018
4600002547	VOITH HYDRO INC 760 E BERLIN RD YORK, PA 17408-8701 US	SERVOMOTORS	E	B		F	N	2		6,117,165	6,004,438	26,400	112,727	7/2/2012	O	7/31/2021	
4600002572	NORTHLAND ASSOCIATES INC 4701 BUCKLEY RD - PO BOX 2549 LIVERPOOL, NY 13088-3627 US	DESIGN, PERMIT, DELIVER, FURNISH, INSTALL, COMMISSION AND START UP OF A SINGLE DISTRIBUTED 2MW WIND TURBINE AT SUNY CANTON, NY	C	B		N	N	4		5,670,500	343,650	0	5,326,850	6/20/2012	C		1/2/2018
4600002573	GE PACKAGED POWER INC 15855 JACINTOPORT BLVD HOUSTON, TX 77015 US	SCPP MAINTENANCE, REPAIR AND PARTS SERVICES FOR THE LM6000	M	B		N	N	1		51,000,000	40,920,300	3,187,243	10,079,700	10/1/2012	C		9/5/2018
4600002618	INNOVATIVE AUTOMATION INC 954 HERITAGE HIILS DR YORK, PA 17402 US	OPERATING PROCEDURES AND SYSTEM DESCRIPTIONS UPGRADES AT ST. LAWRENCE POWER PROJECT	A	B		F	N	5		1,313,858	836,885	128,537	476,973	3/18/2013	C		3/17/2018

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4600002619	C & S ENGINEERS INC 499 COL EILEEN COLLINS BLVD SYRACUSE, NY 13212-3931 US	CONSULTING ENGINEERING SERVICES FOR POWER GENERATION AND TRANSMISSION FACILITIES	A	B		N	N	25		3,772,291	3,665,026	0	107,265	1/23/2013	C		12/31/2018
4600002628	KSW MECHANICAL SERVICES INC 37-16 23RD ST LONG ISLAND CITY, NY 11101-3518 US	SENY IMPLEMENTATION SERVICES	C	B		N	N	30		2,000,000	0	0	2,000,000	3/1/2013	C		12/31/2018
4600002630	BURNS ENGINEERING PC 2001 MARKET ST STE 600 PHILADELPHIA, PA 19103-7032 US	SENY IMPLEMENTATION SERVICES	A	B		N	N	30		5,000,000	1,379,109	396,770	3,620,891	3/1/2013	O	12/31/2019	
4600002631	FULCRUM FACILITIES SERVICES LLC DBA THE FULCRUM GROUP 80 BROAD ST - STE 1601 NEW YORK, NY 10004-2285 US	SENY IMPLEMENTATION SERVICES	C	B		N	N	30		33,000,000	15,585,045	3,102,782	17,414,955	3/1/2013	O	12/31/2019	
4600002632	GUTH DECONZO CONSULTING ENGINEERS PC 242 W 30TH ST - 3RD FL NEW YORK, NY 10001-4903 US	SENY IMPLEMENTATION SERVICES	C	B		N	N	30		21,884,084	12,424,557	3,931,697	9,459,527	3/1/2013	O	12/31/2020	
4600002633	O'BRIEN & GERE / DEWBERRY ENERGY SERVICES JOINT VENTURE 333 W WASHINGTON - STE 400 SYRACUSE, NY 13202-9202 US	SENY IMPLEMENTATION SERVICES	C	B		N	N	30		20,000,000	7,724,425	1,776,273	12,275,575	3/1/2013	O	12/31/2019	
4600002635	CDM CONSTRUCTORS INC 60 CROSSWAYS PARK W - STE 340 WOODBURY, NY 11797-2018 US	SENY IMPLEMENTATION SERVICES	C	B		N	N	30		144,000,000	77,079,453	32,948,074	66,920,547	3/1/2013	O	12/31/2020	
4600002636	EME CONSULTING ENGINEERING GROUP LLC 129 W 27TH ST - FL 7 NEW YORK, NY 10001-6206 US	SENY IMPLEMENTATION SERVICES	A	B		N	N	30		2,000,000	4,955	0	1,995,045	3/1/2013	C		12/31/2018
4600002637	WENDEL ENERGY SERVICES LLC 375 ESSJAY RD - STE 200 WILLIAMSVILLE, NY 14221-5761 US	SENY IMPLEMENTATION SERVICES	C	B		N	N	30		155,000,000	51,617,129	15,097,213	103,382,871	3/1/2013	O	12/31/2019	
4600002638	WILLDAN ENERGY SOLUTIONS INC 88 PINE ST - FL 18 NEW YORK, NY 10005 US	SENY IMPLEMENTATION SERVICES	P	B		N	N	30		2,000,000	102,518	0	1,897,482	3/1/2013	C		12/31/2018
4600002639	SOURCEONE INC 370 7TH AVE - STE 704 NEW YORK, NY 10001-0013 US	SENY IMPLEMENTATION SERVICES	C	B		N	N	30		50,000,000	4,680,219	1,610,870	45,319,781	3/1/2013	O	12/31/2019	
4600002642	SAVIN ENGINEERS PC 3 CAMPUS DR PLEASANTVILLE, NY 10570-1602 US	SENY IMPLEMENTATION SERVICES	C	B		N	04	30		110,000,000	6,334,099	2,849,303	103,665,901	3/1/2013	O	12/31/2022	
4600002644	RCM TECHNOLOGIES INC FACILITIES DESIGN & CONSTRUCTION 2500 MCCLELLAN AVE - STE 350 PENNSAUKEN, NJ 08109-4617 US	SENY IMPLEMENTATION SERVICES	C	B		N	N	30		40,000,000	7,383,696	142,109	32,616,304	3/1/2013	O	12/31/2019	
4600002646	ECOSYSTEM/LIRO ENERGY GROUP II JOINT VENTURE 3 AERIAL WAY SYOSSET, NY 11791-5501 US	SENY IMPLEMENTATION SERVICES	C	B		N	N	30		335,500,000	139,328,604	37,718,245	196,171,396	3/1/2013	O	12/31/2020	

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4600002648	STV INC 225 PARK AVE S NEW YORK, NY 10003-1604 US	SENY IMPLEMENTATION SERVICES	C	B		N	N	30		5,000,000	162,733	50,333	4,837,267	3/1/2013	O	12/31/2019	
4600002655	MALCOLM PIRNIE A SUB SIDIARY OF ARCADIS US INC 44 S BROADWAY - FL 15 WHITE PLAINS, NY 10601-4411 US	SENY IMPLEMENTATION SERVICES	C	B		N	N	30		123,000,000	43,648,540	25,754,855	79,351,460	3/1/2013	O	12/31/2022	
4600002660	OPEN TEXT INC 951 MARINERS ISLAND BLVD - FL 7 SAN MATEO, CA 94404-1561 US	MAINTENANCE - OPENTEXT STREAMSERVE	S	B		F	N	1		218,500	192,982	30,540	25,518	5/11/2013	O	5/9/2019	
4600002666	SIEMENS ENERGY INC 85 JOHN RD - UNIT 1 CANTON, MA 02021-2826 US	FLYNN: OPERATING PLANT SERVICE AGREEMENT	S	B		N	N	1		60,000,000	13,196,751	611,304	46,803,249	4/1/2013	O	3/31/2025	
4600002667	INSTITUTE FOR BUILDING TECHNOLOGY AND SAFETY 45207 RESEARCH PL ASHBURN, VA 20147-2421 US	ENERGY EFFICIENCY MARKET ACCELERATION PROGRAM IMPLEMENTATION SERVICES (EEMAP)	P	B		F	N	7		10,000,000	845,280	0	9,154,720	4/5/2013	C		4/4/2018
4600002676	PACE UNIVERSITY 1 PACE PLZ NEW YORK, NY 10038-1598 US	MBA ONSITE	P	B		N	N	2		2,900,000	2,306,938	103,350	593,062	7/1/2013	C		6/30/2018
4600002678	SYRACUSE UNIVERSITY 113 BOWNE HALL SYRACUSE, NY 13244-1200 US	ENERGY EFFICIENCY MARKET ACCELERATION PROGRAM IMPLEMENTATION SERVICES (EEMAP)	P	B		N	N	7		10,000,000	1,390,561	273,063	8,609,439	4/11/2013	C		4/10/2018
4600002680	ROTATOR STAFFING SERVICES INC 25 KENNEDY BLVD E BRUNSWICK, NJ 08816-1259 US	TEMPORARY DESIGN AND DRAFTING PERSONNEL	S	B		F	N	7		3,550,000	2,081,813	0	1,468,187	4/17/2013	C		3/31/2018
4600002682	L J GONZER ASSOCIATES 14 COMMERCE DR - STE 305 CRANFORD, NJ 07016 US	PROVIDE DESIGN AND DRAFTING PERSONNEL	S	B		F	N	7		3,300,000	1,761,318	25,581	1,538,682	4/17/2013	C		3/31/2018
4600002683	PEAK TECHNICAL SERVICES INC DBA PEAK TECHNICAL STAFFING USA 5 PENN PLAZA - STE 2332 NEW YORK, NY 10001-1810 US	PROVIDE TEMPORARY DESIGN AND DRAFTING PERSONNEL	S	B		F	N	7		1,600,000	866,973	0	733,027	4/17/2013	C		3/31/2018
4600002684	AEROTEK INC 757 3RD AVE - STE 201 NEW YORK, NY 10017 US	PROVIDE TEMPORARY DESIGN AND DRAFTING PERSONNEL	S	B		N	N	7		550,000	295,529	0	254,471	4/17/2013	C		3/31/2018
4600002685	ICF RESOURCES LLC 9300 LEE HIGHWAY FAIRFAX, VA 22031-6050 US	AWARD OF CONSULTING SERVICES TO EXECUTIVE OFFICE	P	B		F	N	25		339,479	320,313	0	19,166	4/25/2013	C		4/30/2018
4600002686	M J BRADLEY & ASSOCIATES LLC 47 JUNCTION SQUARE DR CONCORD, MA 01742 US	AWARD OF CONSULTING SERVICES TO EXECUTIVE OFFICE	P	B		F	N	25		479,905	392,301	138,569	87,604	5/7/2013	C		4/30/2018
4600002687	CUSTOMER CARE NETWORK INC 665 RIVER KNOLL DR SE MARIETTA, GA 30067-4748 US	AWARD OF CONSULTING SERVICES TO EXECUTIVE OFFICE	P	B		F	N	25		2,207,169	1,917,558	0	289,611	5/6/2013	C		4/30/2018
4600002688	PA CONSULTING GROUP INC 405 LEXINGTON AVE - FL 45 NEW YORK, NY 10174-0002 US	AWARD OF CONSULTING SERVICES TO EXECUTIVE OFFICE	P	B		F	N	25		3,974,880	3,803,663	0	171,217	4/26/2013	C		4/30/2018
4600002689	BURO HAPPOLD CONSULTING ENG PC DBA HAPPOLD CONSULTING 100 BROADWAY FL 23 NEW YORK, NY 10005-4502 US	AWARD OF CONSULTING SERVICES TO EXECUTIVE OFFICE	P	B		N	N	25		225,788	225,111	0	677	5/7/2013	C		4/30/2018

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4600002690	MCKINSEY & COMPANY INC WASHINGTON DC 1200 19TH ST NW STE 1100 WASHINGTON, DC 20036-2412 US	AWARD OF CONSULTING SERVICES TO EXECUTIVE OFFICE	P	B		F	N	25		3,988,235	3,988,235	0	0	4/23/2013	C		4/30/2018
4600002691	NAVIGANT CONSULTING INC 30 S WACKER DR - STE 3100 CHICAGO, IL 60606-7444 US	CONSULTING SERVICES TO EXECUTIVE OFFICE	P	B		N	N	25		280,920	202,992	0	77,928	5/7/2013	C		4/30/2018
4600002692	UMS GROUP INC 300 INTERPACE PKWY STE C380 PARSIPPANY, NJ 07054-1100 US	AWARD OF CONSULTING SERVICES TO EXECUTIVE OFFICE	P	B		F	N	25		5,000	0	0	5,000	4/22/2013	C		4/30/2018
4600002693	ALEXANDER SCOTT & ASSOCIATES 5335 DIVIDEND DR STE C DECATUR, GA 30035-3833 US	AWARD OF CONSULTING SERVICES TO EXECUTIVE OFFICE	P	B		F	N	25		5,000	0	0	5,000	4/22/2013	C		4/30/2018
4600002700	ACLARA TECHNOLOGIES LLC 945 HORNET DR HAZELWOOD, MO 63042-2309 US	MAINTENANCE - ACLARA ENERGY VISION ENTERPRISE (EVE)	S	B		N	N	1		509,508	469,754	64,916	39,754	4/1/2013	O	3/31/2019	
4600002701	TSI TURTLE SERVICES LLC FORMERLY TECHNOSCOUTS INC 1900 LOWER RD LINDEN, NJ 07036-6519 US	TURNKEY SUPPORT FOR THE AIR PROGRAMS SERVICES	P	B		F	03	8		1,300,000	897,268	98,798	402,732	7/1/2013	C		6/30/2018
4600002706	MID-ISLAND ELECTRICAL SUPPLY DBA FOR MIE-TH HOLDINGS LLC 700 CORPORATE BLVD NEWBURGH, NY 12550-6416 US	FURNISH AND DELIVER RENOVA FLUORESCENT AND LITHONIA, CREE AND LSI LED LIGHTING EQUIPMENT FOR MTA SENY PROJECTS	E	B		F	N	5		1,315,856	1,060,847	208,659	255,009	7/14/2016	O	7/14/2019	
4600002710	CARRIER CORP 175 CENTRAL AVE - STE 300 FARMINGDALE, NY 11735-6917 US	SENY: HVAC EQUIPMENT AND SERVICES	S	B		N	N	3		2,000,000	1,530,710	135,175	469,290	10/1/2013	C		9/30/2018
4600002713	REINHARD-MADISON APPROACH STAFFING DBA MADISON APPROACH STAFFING INC 45 KNOLLWOOD RD - STE 101 ELMSFORD, NY 10523-2806 US	TEMPORARY ADMINISTRATIVE PERSONNEL ON AS NEEDED BASIS	W	B	7	N	03	2		792,604	787,856	0	4,748	8/1/2013	C		7/31/2018
4600002714	PENDA AIKEN INC 330 LIVINGSTON ST - FL 2 BROOKLYN, NY 11217-1002 US	TEMPORARY ADMINISTRATIVE PERSONNEL ON AS NEEDED BASIS	W	B	7	N	04	2		707,396	627,935	0	79,461	8/1/2013	C		7/31/2018
4600002715	TOTAL ADMINISTRATIVE SERVICES CORP TASC 3405 ANNAPOLIS LN N - STE 150 MINNEAPOLIS, MN 55447-8863 US	COBRA ADMINISTRATION SERVICES	S	B		F	N	2		75,000	42,507	9,395	32,493	1/2/2014	O	12/31/2019	
4600002716	DRESSER-RAND CO 203 PRECISION RD HORSHAM, PA 19044-1226 US	SENY: GAS COMPRESSOR SERVICE, MAINTENANCE AND ENGINEERING SUPPORT	S	B		N	N	1		5,000,000	2,847,382	369,887	2,152,618	1/1/2014	O	8/31/2019	
4600002718	ADELAIDE ENVIRONMENTAL HEALTH ASSOCIATES INC 1511 ROUTE 22 - STE C24 BREWSTER, NY 10509-4082 US	ASBESTOS AND LEAD PLANNING SERVICES	P	B	8	N	03	18		1,000,000	342,305	4,429	657,695	8/1/2013	C		8/31/2018
4600002719	AIRTEK ENVIRONMENTAL CORP 39-37 29TH ST LONG ISLAND CITY, NY 11101 US	ASBESTOS AND LEAD PLANNING SERVICES	P	B	8	N	N	18		1,000,000	59,895	52,184	940,105	8/1/2013	C		8/6/2018
4600002720	CORE ENVIRONMENTAL CONSULTANTS INC 2312 WEHRLE DR BUFFALO, NY 14221-7021 US	ASBESTOS AND LEAD PLANNING SERVICES	P	B	8	N	03	18		1,000,000	216,795	12,164	783,205	8/1/2013	C		8/31/2018

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4600002721	LU ENGINEERS 339 EAST AVE STE 202 ROCHESTER, NY 14604-2615 US	ASBESTOS AND LEAD PLANNING SERVICES	P	B	8	N	04	18		1,000,000	9,810	0	990,190	8/1/2013	C		7/31/2018
4600002722	LIRO ENGINEERS INC 3 AERIAL WAY SYOSSET, NY 11791-5501 US	ASBESTOS AND LEAD PLANNING SERVICES	P	B	8	N	N	18		1,000,000	449,123	89,939	550,877	8/1/2013	C		7/31/2018
4600002723	KAM CONSULTANTS CORP 35-40 36TH ST LONG ISLAND CITY, NY 11106 US	ASBESTOS AND LEAD PLANNING SERVICES	P	B	8	N	N	18		1,000,000	65,727	26,400	934,273	8/1/2013	C		7/31/2018
4600002724	WARREN & PANZER ENGINEERS PC 228 E 45TH ST NEW YORK, NY 10017 US	ASBESTOS AND LEAD PLANNING SERVICES	P	B	8	N	N	18		1,000,000	123,232	2,010	876,768	8/1/2013	C		7/31/2018
4600002725	TRC ENVIRONMENTAL CORP 1430 BROADWAY - 10 FL NEW YORK, NY 10018-3308 US	ASBESTOS AND LEAD PLANNING SERVICES	P	B	8	N	N	18		2,000,000	755,674	53,798	1,244,326	8/1/2013	C		7/31/2018
4600002726	MISTRAS GROUP INC 195 CLARKSVILLE RD PRINCETON JUNCTION, NJ 08550-5392 US	ACOUSTIC MONITORING ON TRANSFORMERS, REACTORS AND OTHER POWER SYSTEM EQUIPMENT	S	B		F	N	3		300,000	57,630	42,642	242,370	1/1/2014	C		3/31/2018
4600002730	TALISEN TECHNOLOGIES INC 12655 OLIVE BLVD - STE 500 SAINT LOUIS, MO 63141-6362 US	ENERGY MANAGEMENT CENTER	P	B		F	04	13		7,236,000	4,421,909	449,368	2,814,091	10/9/2013	C		10/8/2018
4600002732	BRG MACHINERY CONSULTING LLC 3241 PLANK RD NORTH GARDEN, VA 22959-2324 US	SENY: CONSULTING SERVICES TO PROVIDE SUPPORT ON ALL MAJOR ROTATING MACHINERY AND NUOVO PIGNONE GAS COMPRESSORS	P	B		N	N	1		950,000	0	0	950,000	5/1/2014	C		1/2/2018
4600002734	DOBLE ENGINEERING CORP 85 WALNUT ST WATERTOWN, MA 02472 US	ANALYTICAL TESTING SERVICES AND DOBLE EQUIPMENT RENTAL	E	B		F	N	2		1,525,000	1,232,557	300,213	292,443	11/1/2013	O	6/30/2019	
4600002735	EV CONNECT INC 615 N NASH ST - STE 203 EL SEGUNDO, CA 90245-2851 US	EE ADVANCE TECHNOLOGY ELECTRIC VEHICLE CHARGING STATIONS FOR PUBLIC SITES: FABRICATE, DELIVER, INSTALL, START-UP AND SERVICES 100 EVSE'S	C	B		F	N	8		1,724,919	1,335,260	0	389,659	11/25/2013	O	11/24/2019	
4600002736	KLEINSCHMIDT ASSOCIATES PA PC PO BOX 650 PITTSFIELD, ME 04967-0650 US	FERC RE-LICENSING PHASE II FOR B-G	P	B		F	N	1		4,479,384	3,053,219	86,678	1,426,165	12/16/2013	C		12/31/2018
4600002741	NORTHEAST PROFESSIONAL ENGINEERING CONSULTANTS LLC 108 NEW PARK AVE - UNIT 3 N FRANKLIN, CT 06254-1807 US	ON-CALL CIVIL AND GEOTECHNICAL ENGINEERING SERVICES	P	B		F	N	12		5,000	0	0	5,000	1/1/2014	C		12/31/2018
4600002742	PAUL C RIZZO ENGINEERING - NEW YORK PLLC 580 WHITE PLAINS RD - STE 4250 TARRYTOWN, NY 10591-5189 US	ON-CALL CIVIL AND GEOTECHNICAL ENGINEERING SERVICES	P	B		N	N	12		1,691,190	1,045,791	14,054	645,399	1/1/2014	C		12/31/2018
4600002743	GZA GEOENVIRONMENTAL OF NEW YORK 249 VANDERBILT AVE NORWOOD, MA 02062-5033 US	ON-CALL CIVIL AND GEOTECHNICAL ENGINEERING SERVICES	P	B		N	N	12		1,905,396	1,514,396	422,911	391,000	1/1/2014	C		12/31/2018
4600002744	GEI CONSULTANTS INC 400 UNICORN PARK DR WOBURN, MA 01801 US	ON-CALL CIVIL AND GEOTECHNICAL ENGINEERING SERVICES	P	B		F	N	12		5,000	0	0	5,000	12/30/2013	C		12/31/2018

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4600002746	SCULLY CONSTRUCTION LLC 141 LAFAYETTE AVE WHITE PLAINS, NY 10603 US	ON-CALL GENERAL CONTRACTING SERVICES	C	B	8	N	N	5		2,621,875	2,133,017	34,403	488,858	1/1/2014	C		12/31/2018
4600002749	ALSTOM GRID INC DISCONNECT SWITCHES DIV 11 GUTTMAN BLVD CHARLEROI, PA 15022-1016 US	VERTICAL MOTOR OPERATED DISCONNECT SWITCHES	E	B		F	N	1		1,462,395	0	0	1,462,395	1/10/2014	C		1/2/2018
4600002751	CARLYLE CONSULTING SERVICES INC 641 LEXINGTON AVE - STE 1526 NEW YORK, NY 10022 US	SAP TEMPORARY PROGRAMMING PERSONNEL	W	B	8	N	01	20		850,000	713,216	272,998	136,784	1/1/2014	C		12/31/2018
4600002752	MITCHELL MARTIN INC DBA GARRETT SAYER GROUP 307 W 38TH ST - STE 1305 NEW YORK, NY 10018-9521 US	SAP TEMPORARY PROGRAMMING PERSONNEL	W	B		N	N	20		1,454,500	1,380,144	395,864	74,356	1/1/2014	C		12/31/2018
4600002753	BAYFORCE TECHNOLOGY SOLUTIONS INC 5100 W KENNEDY BLVD - STE 425 TAMPA, FL 33609-1806 US	SAP TEMPORARY PROGRAMMING PERSONNEL	W	B		N	N	20		700,000	665,736	11,250	34,264	1/1/2014	C		12/31/2018
4600002759	CHA CONSULTING INC III WINNERS CIRCLE ALBANY, NY 12205-0269 US	ON-CALL CIVIL AND GEOTECHNICAL ENGINEERING SERVICES	P	B		N	N	12		1,355,697	1,042,663	791,459	313,034	1/27/2014	C		12/31/2018
4600002763	WESCO DISTRIBUTION INC 500 PRIME PL HAUPPAUGE, NY 11788-5305 US	FURNISH AND DELIVER FLUORESCENT, HID AND LED, COMPACT LIGHTING FIXTURES AND EQUIPMENT FOR SENY AREA	E	B		N	N	3		1,643,286	1,198,446	0	444,840	3/1/2014	O	2/27/2019	
4600002764	SAPTA GLOBAL INC DBA ZEN41T 267 AMBOY AVE WOODBRIDGE, NJ 07095-2803 US	SAP TEMPORARY PROGRAMMING PERSONNEL	W	B		F	04	20		255,340	253,060	0	2,280	1/1/2014	C		12/31/2018
4600002766	ORACLE AMERICA INC 500 ORACLE PKWY REDWOOD CITY, CA 94065-1677 US	MAINTENANCE - ORACLE UTILITIES QUOTATIONS	S	B		F	N	1		204,770	95,040	0	109,730	2/26/2014	C		2/26/2018
4600002769	MRP ELECTRICAL PRODUCTS LLC 3 ESSEX SQ ESSEX, CT 06426-1113 US	FURNISH AND DELIVER OCCUPANCY SENSORS AND DAYLIGHT CONTROL DEVICES FOR SENY PROJECTS	E	B		N	03	3		500,000	33,535	16,445	466,465	4/1/2014	O	3/31/2019	
4600002770	ENERGY CONSERVATION & SUPPLY 55 WASHINGTON ST STE 324 BROOKLYN, NY 11201-1070 US	FURNISH AND DELIVER OCCUPANCY SENSORS AND DAYLIGHT CONTROL DEVICES FOR THE AUTHORITY'S HELP PROGRAM	E	B		N	N	3		500,000	251,326	10,571	248,674	4/1/2014	O	3/31/2019	
4600002776	ROYAL DIAMOND CONSTRUCTION CORP 1 HIGHLAND DR CORTLANDT MANOR, NY 10567-2609 US	ON-CALL GENERAL CONTRACTING SERVICES	C	B	8	N	03	5		1,446,223	1,325,534	396,218	120,689	1/1/2014	C		12/31/2018
4600002777	LLF CONSTRUCTION SERVICES INC 368 NEW HEMPSTEAD RD NEW CITY, NY 10956-1900 US	ON-CALL GENERAL CONTRACTING SERVICES	C	B	8	N	N	5		307,000	251,286	0	55,714	1/1/2014	C		12/31/2018
4600002781	WSP USA INC 75 ARLINGTON ST - 4TH FL BOSTON, MA 02116-3936 US	FERC PART 12 INDEPENDENT CONSULTANT DAM SAFETY INSPECTION AND SAFETY REPORT - ST. LAWRENCE/FDR POWER PROJECT	P	B		N	N	8		360,000	307,031	42,586	52,969	4/1/2014	C		12/31/2018

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4600002782	QUALITY INSPECTION SERVICES INC DBA FOR APPLUS RTD USA 37 FRANKLIN ST - STE 400 BUFFALO, NY 14202-4117 US	ON-CALL TESTING AND INSPECTION	S	B		N	N	3		1,250,000	208,536	7,728	1,041,464	4/9/2014	O	4/8/2019	
4600002784	RICOH USA INC 2500 WESTCHESTER AVE - STE 113 PURCHASE, NY 10577-2515 US	MAINTENANCE - RICOH MULTIFUNCTION DEVICES	S	B		N	N	1		1,100,000	913,432	142,095	186,568	4/1/2014	C		9/30/2018
4600002785	ETHOSENERGY (USA) LLC DBA FOR ETHOSENERGY US GROUP INC 12600 DEERFIELD PKWY - STE 315 ALPHARETTA, GA 30004-5099 US	500MW LONG TERM SERVICE AND EXTENDED PARTS AGREEMENT	S	B		N	N	3		42,194,604	0	0	42,194,604	9/29/2006	C		1/2/2018
4600002786	TRC ENGINEERS INC 1430 BROADWAY - FL 10 NEW YORK, NY 10018-9202 US	SENY ENVIRONMENTAL HEALTH AND SAFETY OVERSIGHT SERVICES	P	B		N	N	10		1,500,000	374,201	0	1,125,799	4/17/2014	C		4/6/2018
4600002787	TSI TURTLE SERVICES LLC FORMERLY TECHNOSCOUTS INC 1900 LOWER RD LINDEN, NJ 07036-6519 US	SENY ENVIRONMENTAL HEALTH AND SAFETY OVERSIGHT SERVICES	P	B		F	03	10		1,500,000	453,101	0	1,046,899	4/17/2014	C		4/6/2018
4600002788	FERGUSON ELECTRIC CONSTRUCTION CO INC 333 ELLICOTT ST BUFFALO, NY 14203-1618 US	INSTALLATION OF AUXILIARY EQUIPMENT	C	B		N	N	1		19,046,700	10,922,791	1,022,407	8,123,909	2/27/2014	O	12/31/2022	
4600002789	GREENMAN-PEDERSEN INC 400 RELLA BLVD - STE 207 MONTEBELLO, NY 10901-4256 US	COATING CONSULTING AND INSPECTION SERVICES	S	B		N	N	1		5,000,000	1,368,954	489,793	3,631,046	5/20/2014	O	5/19/2019	
4600002790	TIME WARNER CABLE INC 20 CENTURY HILL DR LATHAM, NY 12110-2116 US	TIME WARNER CABLE FIBER OPTIC INSTALLATION	S	B	7	N	N	1		6,500,000	1,584,867	660,185	4,915,133	7/1/2014	O	6/30/2024	
4600002800	HADLEY EXHIBITS INC 1700 ELMWOOD AVE BUFFALO, NY 14207-2408 US	VISITORS' CENTERS UPGRADES	C	B	8	N	N	4		11,600,000	11,459,184	0	140,816	6/1/2014	O	5/31/2019	
4600002801	ALLSTATE POWER VAC INC DBA EQ INDUSTRIAL SERVICES 928 E HAZELWOOD AVE RAHWAY, NJ 07065-5634 US	ON-CALL EMERGENCY SPILL RESPONSE, CLEAN-UP AND DISPOSAL SERVICES	S	B		N	N	7		250,000	0	0	250,000	7/1/2014	O	5/31/2019	
4600002803	KLEINFELDER EAST INC 1279 ROUTE 200 - 2ND FL NEWBURGH, NY 12550 US	ON-CALL ENVIRONMENTAL SERVICES	P	B		F	N	35		228,392	0	0	228,392	6/4/2014	O	6/30/2019	
4600002804	KLEINSCHMIDT ASSOCIATES PA PC PO BOX 650 PITTSFIELD, ME 04967-0650 US	ON-CALL ENVIRONMENTAL SERVICES	P	B		F	N	35		1,834,940	1,686,477	226,197	148,463	6/4/2014	O	5/31/2019	
4600002805	ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT INC 40 HAMILTON LN GLENMONT, NY 12077-4837 US	ON-CALL EMERGENCY SPILL RESPONSE, CLEAN-UP AND DISPOSAL SERVICES	S	B		N	N	7		250,000	0	0	250,000	7/1/2014	O	5/31/2019	
4600002806	NATIONAL VACUUM ENVIRONMENTAL SERVICES CORP 408 47TH ST NIAGARA FALLS, NY 14304-2102 US	ON-CALL EMERGENCY SPILL RESPONSE, CLEAN-UP AND DISPOSAL SERVICES	S	B		N	N	7		300,000	17,335	0	282,665	7/1/2014	O	5/31/2019	

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4600002807	MILLER ENVIRONMENTAL GROUP INC 538 EDWARDS AVE CALVERTON, NY 11933-1636 US	ON-CALL EMERGENCY SPILL RESPONSE, CLEAN-UP AND DISPOSAL SERVICES	S	B		N	N	7		13,000,000	16,867	10,867	12,983,133	7/1/2014	O	5/31/2019	
4600002808	WRS ENVIRONMENTAL SERVICES INC 17 OLD DOCK RD YAPHANK, NY 11980-9702 US	ON-CALL EMERGENCY SPILL RESPONSE, CLEAN-UP AND DISPOSAL SERVICES	S	B		N	N	7		250,000	54,970	54,970	195,030	7/1/2014	O	5/31/2019	
4600002810	TRC ENGINEERS INC 1430 BROADWAY - FL 10 NEW YORK, NY 10018-9202 US	ON-CALL ENVIRONMENTAL SERVICES	P	B		F	N	35		666,666	86,050	0	580,616	6/12/2014	O	5/31/2019	
4600002816	AECOM USA INC 125 BROAD ST NEW YORK, NY 10004-2400 US	ON-CALL ENVIRONMENTAL SERVICES	P	B		N	N	35		241,666	4,800	0	236,866	7/8/2014	O	5/31/2019	
4600002820	HILL INTERNATIONAL INC 1 COMMERCE SQ # 17 2005 MARKET ST PHILADELPHIA, PA 19103-1415 US	COST ESTIMATING AND SCHEDULING SERVICES	P	B		N	N	13		150,000	69,970	3,315	80,030	8/18/2014	O	8/17/2019	
4600002821	HAIDER ENGINEERING PC 91 TOLEDO ST FARMINGDALE, NY 11735-6620 US	COST ESTIMATING AND SCHEDULING SERVICES	P	B		N	04	13		150,000	0	0	150,000	8/18/2014	O	8/17/2019	
4600002826	DACK CONSULTING SOLUTIONS INC 2 WILLIAM ST - STE 202 WHITE PLAINS, NY 10601-1912 US	COST ESTIMATING AND SCHEDULING SERVICES ON AN AS-NEEDED BASIS	P	B		N	04	13		150,000	0	0	150,000	8/18/2014	O	8/17/2019	
4600002828	NASCO CONSTRUCTION SERVICES INC 200 BUSINESS PARK DR ARMONK, NY 10504-1700 US	COST ESTIMATING AND SCHEDULING SERVICES	P	B		N	03	13		150,000	0	0	150,000	8/18/2014	O	8/17/2019	
4600002831	E J ELECTRIC INSTALLATION CO 46-41 VERNON BLVD LONG ISLAND CITY, NY 11101 US	SENY: ELECTRICAL SUPPORT SERVICES	S	B		N	N	5		5,000,000	943,454	190,158	4,056,546	9/1/2014	O	8/31/2019	
4600002832	ALL STATE CLEANING DBA FOR LINA VIVAS MAINT INC 83 TIMBERLINE DR BRENTWOOD, NY 11717-4804 US	JANITORIAL CLEANING SERVICES: FLYNN AND BRENTWOOD	S	B		N	04	4		200,000	104,102	12,831	95,898	9/1/2014	O	11/2/2019	
4600002834	AVEPOINT PUBLIC SECTOR INC 2111 WILSON BLVD - STE 210 ARLINGTON, VA 22201-3089 US	SHAREPOINT CONSULTING SERVICES	P	B		F	N	18		5,000	0	0	5,000	9/1/2014	O	7/31/2019	
4600002835	STELLAR SERVICES INC 70 W 36TH ST - RM 702 NEW YORK, NY 10018-1258 US	SHAREPOINT CONSULTING SERVICES	P	B		F	04	18		600,000	577,489	0	22,511	9/1/2014	O	7/31/2019	
4600002836	SUMMIT 7 SYSTEMS INC 71 TOWN CENTER DR NW HUNTSVILLE, AL 35806-2670 US	SHAREPOINT CONSULTING SERVICES	P	B		F	N	18		150,000	80,512	0	69,488	9/1/2014	O	7/31/2019	
4600002837	PINNACLE ENVIRONMENTAL CORP 200 BROAD ST CARLSTADT, NJ 07072-1904 US	PLANNED ASBESTOS/LEAD/PCB ABATEMENT AND ASBESTOS/LEAD/PCB EMERGENCY RESPONSE SERVICES	C	B		N	N	11		1,250,000	0	0	1,250,000	10/16/2014	O	10/15/2019	
4600002838	ARCADIS OF NEW YORK INC 44 S BROADWAY - FL 15 WHITE PLAINS, NY 10601-4411 US	ON-CALL ENVIRONMENTAL SERVICES	P	B		N	N	35		751,666	545,910	47,749	205,756	9/17/2014	C		12/31/2018
4600002839	THE LOUIS BERGER GROUP INC 48 WALL ST - 16TH FL NEW YORK, NY 10005-2927 US	ON-CALL ENVIRONMENTAL SERVICES	P	B		F	N	35		351,666	9,185	0	342,481	9/18/2014	O	5/31/2019	

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4600002841	ABSCOPE ENVIRONMENTAL INC 7086 COMMERCIAL DR CANASTOTA, NY 13032-4763 US	PLANNED ASBESTOS/LEAD/PCB ABATEMENT AND ASBESTOS/LEAD/PCB EMERGENCY RESPONSE SERVICES	C	B		N	N	11		1,250,000	674,742	213,733	575,258	10/16/2014	O	10/15/2019	
4600002842	BUFFALO ENVIRONMENTAL CONSULTANTS INC 7815 BUFFALO AVE NIAGARA FALLS, NY 14304-4221 US	PLANNED ASBESTOS/LEAD/PCB ABATEMENT AND ASBESTOS/LEAD/PCB EMERGENCY RESPONSE SERVICES AT NYPA FACILITIES	C	B		N	N	11		1,250,000	366,195	0	883,805	10/16/2014	O	10/15/2019	
4600002847	SCE ENVIRONMENTAL GROUP INC 1380 MOUNT COBB RD JEFFERSON TOWNSHIP, PA 18436-3214 US	PLANNED ASBESTOS/LEAD/PCB ABATEMENT AND ASBESTOS/LEAD/PCB EMERGENCY RESPONSE SERVICES	C	B		N	N	11		1,250,000	198,472	0	1,051,528	10/16/2014	O	10/15/2019	
4600002849	EMC CORP 176 SOUTH ST HOPKINTON, MA 01748-2230 US	SHAREPOINT CONSULTING SERVICES	P	B		F	N	18		5,000	0	0	5,000	9/1/2014	O	7/31/2019	
4600002850	BLUEMETAL ARCHITECTS INC 44 PLEASANT ST - STE 200 WATERTOWN, MA 02472-2312 US	SHAREPOINT CONSULTING SERVICES	P	B		N	N	18		250,000	212,464	0	37,536	9/1/2014	O	7/31/2019	
4600002851	KMQ ENTERPRISES INC DBA TAILWIND ASSOCIATES 1462 ERIE BLVD SCHENECTADY, NY 12305-1026 US	SHAREPOINT CONSULTING SERVICES	P	B		N	03	18		5,000	0	0	5,000	10/6/2014	O	7/31/2019	
4600002852	COLDEN CORP 5842 HERITAGE LANDING DR EAST SYRACUSE, NY 13057-9359 US	INDUSTRIAL HYGIENE, OCCUPATIONAL HEALTH, AND SAFETY SUPPORT SERVICES	S	B		N	N	2		1,500,000	767,699	172,732	732,301	11/1/2014	O	10/31/2019	
4600002853	THE LOUIS BERGER GROUP INC 48 WALL ST - 16TH FL NEW YORK, NY 10005-2927 US	INDUSTRIAL HYGIENE, OCCUPATIONAL HEALTH, AND SAFETY SUPPORT SERVICES	S	B		N	N	2		1,500,000	32,124	1,040	1,467,876	11/1/2014	O	10/31/2019	
4600002856	HD SUPPLY POWER SOLUTIONS LTD 51 STEELE DR NEW CASTLE, DE 19720-7706 US	HELP PROGRAM - FURNISH AND DELIVER BALLASTS AND EQUIPMENT FOR ASSORTED SENY PROJECTS	E	B		F	N	3		907,495	23,742	0	883,753	10/31/2014	C		10/30/2018
4600002858	RICHARD GRUBB AND ASSOCIATES INC 259 PROSPECT PLAINS RD - BLDG D CRANBURY, NJ 08512-3706 US	GENERAL CULTURAL RESOURCE SERVICES ON AN AS-NEEDED BASIS	P	B		N	03	12		250,000	78,521	13,817	171,479	11/1/2014	O	10/31/2019	
4600002859	PRES SERVICES LLC PRES ENERGY 95 STARK ST TONAWANDA, NY 14150-1210 US	STATEWIDE ENERGY EFFICIENCY PROGRAM	C	B		N	N	31		71,000,000	25,094,045	20,035,211	45,905,955	10/15/2014	O	10/14/2019	
4600002860	LANDMARK ARCHAEOLOGY INC 6242 HAWES RD ALTAMONT, NY 12009-4606 US	GENERAL CULTURAL RESOURCE SERVICES ON AN AS-NEEDED BASIS	P	B		N	03	12		500,000	71,090	27,586	428,910	11/1/2014	O	10/31/2019	
4600002862	HARTGEN ARCHEOLOGICAL ASSOCIATES INC 1744 WASHINGTON AVE EXT RENSSELAER, NY 12144-9510 US	GENERAL CULTURAL RESOURCE SERVICES ON AN AS-NEEDED BASIS	P	B		N	N	12		500,000	77,018	15,161	422,982	11/1/2014	O	10/31/2019	
4600002864	MICHAEL BELLANTONI INC 121 LAFAYETTE AVE WHITE PLAINS, NY 10603-1602 US	SNOW REMOVAL	S	B		N	N	4		550,000	227,960	75,937	322,040	11/10/2014	O	11/9/2019	

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4600002866	NIAGARA COATINGS SERVICES INC 8025 QUARRY RD NIAGARA FALLS, NY 14304 US	LPGP LEM HIGH PERFORMANCE COATING PROJECT	C	B		N	N	2		1,311,119	756,813	209,606	554,306	11/13/2014	O	12/31/2022	
4600002867	THE CHAZEN COMPANIES 21 FOX ST POUGHKEEPSIE, NY 12601-4724 US	PD AND L SUPPORT SERVICE	P	B		N	N	15		70,122	70,122	0	0	12/15/2014	O	12/14/2019	
4600002869	ESS GROUP INC 10 HEMINGWAY DR - FL 2 RIVERSIDE, RI 02915-2224 US	PD AND L SUPPORT SERVICE	P	B		N	N	15		383,650	0	0	383,650	12/15/2014	O	12/14/2019	
4600002870	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	PD AND L SUPPORT SERVICE	P	B		N	N	15		58,376	48,388	19,488	9,988	12/15/2014	O	12/14/2019	
4600002871	HENNINGSON DURHAM&RICHARDSON ARCHITECTURE AND ENGINEERING PC 711 WESTCHESTER AVE - STE 103 WHITE PLAINS, NY 10604-3532 US	PD AND L SUPPORT SERVICE	P	B		N	N	15		5,000	0	0	5,000	12/15/2014	O	12/14/2019	
4600002872	THE LOUIS BERGER GROUP INC 48 WALL ST - 16TH FL NEW YORK, NY 10005-2927 US	PD AND L SUPPORT SERVICE	P	B		N	N	15		3,207,005	1,483,712	615,360	1,723,293	12/15/2014	O	12/14/2019	
4600002873	POWER ENGINEERS CONSULTING A PROFESSIONAL SERVICE CORP 3940 GLENBROOK DR HAILEY, ID 83333-8446 US	PD AND L SUPPORT SERVICE	P	B		N	N	15		5,000	0	0	5,000	12/15/2014	O	12/14/2019	
4600002874	TETRA TECH INC 6 CENTURY DR - STE 3 PARSIPPANY, NJ 07054-4611 US	PD AND L SUPPORT SERVICE	P	B		N	N	15		12,000	7,589	0	4,411	12/15/2014	O	12/14/2019	
4600002875	TRC ENVIRONMENTAL CORP 14 GABRIEL DR AUGUSTA, ME 04330-7853 US	PD AND L SUPPORT SERVICE	P	B		N	N	15		5,000	0	0	5,000	12/15/2014	O	12/14/2019	
4600002876	FULCRUM FACILITIES SERVICES DBA THE FULCRUM GROUP 80 BROAD ST - STE 1601 NEW YORK, NY 10004-2209 US	STATEWIDE ENERGY EFFICIENCY PROGRAM ENVIRONMENTAL CONSULTING	A	B		N	N	31		1,000,000	170,851	0	829,149	10/15/2014	O	10/14/2019	
4600002877	THE RESEARCH FOUNDATION FOR SUNY 35 STATE ST ALBANY, NY 12207-2826 US	GENERAL CULTURAL RESOURCE SERVICES ON AN AS-NEEDED BASIS	P	B		N	N	12		250,000	0	0	250,000	10/16/2014	O	10/31/2019	
4600002882	GUTH DECONZO CONSULTING ENGINEERS PC 242 W 30TH ST - 3RD FL NEW YORK, NY 10001-4903 US	STATEWIDE ENERGY EFFICIENCY PROGRAM	C	B		N	N	31		89,000,000	56,110,644	23,681,278	32,889,356	10/15/2014	O	10/14/2019	
4600002883	ECOSYSTEM/LIRO ENERGY GROUP II JOINT VENTURE 3 AERIAL WAY SYOSSET, NY 11791-5501 US	STATEWIDE ENERGY EFFICIENCY PROGRAM	C	B		N	N	31		1,000,000	0	0	1,000,000	10/15/2014	O	10/14/2019	
4600002884	AECOM USA INC 125 BROAD ST NEW YORK, NY 10004-2400 US	ON-CALL ENGINEERING, CONSTRUCTION MANAGEMENT AND OVERSIGHT SERVICES	P	B		N	N	17		30,000,000	23,643,327	6,911,741	6,356,673	1/7/2015	O	12/31/2019	

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4600002885	ECOLOGY AND ENVIRONMENT ENGINEERING PC 368 PLEASANT VIEW DR LANCASTER, NY 14086-1316 US	PD AND L SUPPORT SERVICE	P	B		N	N	15		5,000	0	0	5,000	12/15/2014	O	12/14/2019	
4600002886	ENERACTIVE SOLUTIONS LLC 150 BROADWAY - STE 802 NEW YORK, NY 10038-4381 US	ON-CALL ENGINEERING, CONSTRUCTION MANAGEMENT AND OVERSIGHT SERVICES	P	B		N	N	17		2,500,000	92,205	0	2,407,795	12/16/2014	O	12/15/2019	
4600002887	JACOBS CIVIL CONSULTANTS INC JACOBS ENGINEERING GROUP INC 2 PENN PLAZA - STE 603 NEW YORK, NY 10121-0101 US	ON-CALL ENGINEERING, CONSTRUCTION MANAGEMENT AND OVERSIGHT SERVICES	P	B		N	N	17		2,500,000	112,048	112,048	2,387,952	12/18/2014	O	12/17/2019	
4600002888	RCM TECHNOLOGIES INC FACILITIES DESIGN & CONSTRUCTION 2500 MCCLELLAN AVE - STE 350 PENNSAUKEN, NJ 08109-4617 US	ON-CALL ENGINEERING, CONSTRUCTION MANAGEMENT AND OVERSIGHT SERVICES	P	B		N	N	17		15,000,000	10,973,569	1,608,870	4,026,431	1/7/2015	O	12/17/2019	
4600002889	BURNS & MCDONNELL ENGINEERING CO INC 108 LEIGUS RD WALLINGFORD, CT 06492-2518 US	PD AND L SUPPORT SERVICE	P	B		N	N	15		1,172,048	965,918	210,500	206,130	12/16/2014	O	12/15/2019	
4600002890	GROM ASSOCIATES INC 1 MAIN ST FLEMINGTON, NJ 08822-1420 US	SAP TEMPORARY PROGRAMMING PERSONNEL	W	B		N	N	20		1,006,000	763,856	0	242,144	1/8/2015	C		12/31/2018
4600002891	ARCH STREET COMMUNICATIONS INC 31 MAMARONECK AVE - STE 400 WHITE PLAINS, NY 10601-3378 US	PUBLIC OUTREACH AND STRATEGIC COMMUNICATIONS SERVICES	P	B		N	03	21		677,000	415,580	242,320	261,420	1/1/2015	O	12/31/2019	
4600002892	THE VISUAL BRAND LLC 24 WHITNEY ST WESTPORT, CT 06880-3735 US	PUBLIC OUTREACH AND STRATEGIC COMMUNICATIONS SERVICES	P	B		N	N	21		1,250,000	912,495	359,734	337,505	1/1/2015	O	12/31/2019	
4600002893	E K WARD & ASSOCIATES PO BOX 630 WILLIAMSVILLE, NY 14231-0630 US	EXECUTIVE COACHING SERVICES	P	B		N	04	8		268,804	194,835	13,732	73,969	1/9/2015	O	12/31/2019	
4600002894	LUCIUS PITKIN INC 304 HUDSON ST - 4TH FL NEW YORK, NY 10013-1015 US	ON-CALL FAILURE ANALYSIS AND METALLURGICAL EXAMINATION AND TESTING SERVICES FOR ALL SITES	P	B		N	N	4		1,000,000	181,983	45,079	818,017	1/8/2015	O	12/31/2019	
4600002895	EME CONSULTING ENGINEERING GROUP LLC 129 W 27TH ST - FL 7 NEW YORK, NY 10001-6206 US	STATEWIDE ENERGY EFFICIENCY PROGRAM	A	B		N	N	31		2,000,000	130,519	0	1,869,481	10/15/2014	O	10/14/2019	
4600002896	CAREER CONCEPTS INC DBA CCI CONSULTING 721 ARBOR WAY-STE 180-HILLCREST II BLUE BELL, PA 19422-1977 US	EXECUTIVE COACHING SERVICES	P	B		F	N	8		214,450	80,396	33,962	134,054	1/9/2015	O	12/31/2019	
4600002898	ATLANTIC TESTING LABORATORIES LTD 6431 US HIGHWAY 11 - PO BOX 29 CANTON, NY 13617-3979 US	ON-CALL LABORATORY TESTING AND INSPECTION SERVICES FOR STL	P	B		N	03	2		500,000	302,592	104,292	197,408	1/12/2015	O	12/31/2019	
4600002899	HO PENN MACHINERY CO INC 122 NOXON RD POUGHKEEPSIE, NY 12603-2940 US	SCPP DIESEL GENERATORS INSPECTION, MAINTENANCE AND REPAIRS	S	2	8	N	N	1		250,000	84,238	16,633	165,762	1/19/2015	O	1/18/2020	

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4600002900	AEIS LLC DBA ATLAS EVALUATION AND INSPECTION 801 MONTROSE AVE SOUTH PLAINFIELD, NJ 07080-1803 US	ON-CALL FAILURE ANALYSIS AND METALLURGICAL EXAMINATION AND TESTING SERVICES FOR ALL SITES	P	B		F	04	2		1,000,000	13,066	0	986,934	1/13/2015	O	12/31/2019	
4600002901	MID-ISLAND ELECTRICAL SUPPLY DBA FOR MIE-TH HOLDINGS LLC 700 CORPORATE BLVD NEWBURGH, NY 12550-6416 US	ENERGY EFFICIENCY AND COPPER LED LIGHTING EQUIPMENT - CONEY ISLAND - HOLPHANE	E	B		N	N	5		1,178,111	1,005,360	0	172,751	1/21/2015	O	1/20/2019	
4600002902	MID-ISLAND ELECTRICAL SUPPLY DBA FOR MIE-TH HOLDINGS LLC 700 CORPORATE BLVD NEWBURGH, NY 12550-6416 US	FLATBUSH BUS DEPOT - FURNISH AND DELIVER HOLPHANE AND LITHONIA LED LIGHTING EQUIPMENT	E	B		N	N	5		601,700	511,892	0	89,808	1/21/2015	O	1/20/2019	
4600002903	MID-ISLAND ELECTRICAL SUPPLY DBA FOR MIE-TH HOLDINGS LLC 700 CORPORATE BLVD NEWBURGH, NY 12550-6416 US	WEST FARM BUS DEPOT FURNISH AND DELIVER HOLOPHANE, LITHONIA, DIALIGHT AND PHOENIX LED LIGHTING EQUIPMENT	E	B		N	N	5		588,590	508,412	0	80,178	1/21/2015	O	1/20/2019	
4600002904	MID-ISLAND ELECTRICAL SUPPLY DBA FOR MIE-TH HOLDINGS LLC 700 CORPORATE BLVD NEWBURGH, NY 12550-6416 US	MANHATTANVILLE BUS DEPOT FURNISH AND DELIVER HOLOPHANE, LITHONIA, DIALIGHT LED LIGHTING EQUIPMENT	E	B		N	N	4		811,235	665,451	0	145,784	1/21/2015	O	1/20/2019	
4600002905	ADAM C BOESE DBA DAYLIGHT SAVINGS CO 25 MAIN ST GOSHEN, NY 10924-2162 US	AUDIT SERVICES	A	B		N	N	31		1,000,000	141,343	7,780	858,657	10/15/2014	O	10/14/2019	
4600002907	ENERGY & RESOURCE SOLUTIONS INC 1430 BROADWAY - STE 1609 NEW YORK, NY 10018-3422 US	AUDIT SERVICES	A	B		F	N	31		500,000	327,574	56,058	172,426	10/15/2014	O	10/14/2019	
4600002908	CANNON DESIGN ARCHITECTURE & ENGINEERING PC 2170 WHITEHAVEN RD GRAND ISLAND, NY 14072-2025 US	AUDIT SERVICES	A	B		N	N	31		500,000	15,000	0	485,000	10/15/2014	O	10/14/2019	
4600002909	MID-ISLAND ELECTRICAL SUPPLY DBA FOR MIE-TH HOLDINGS LLC 700 CORPORATE BLVD NEWBURGH, NY 12550-6416 US	FURNISH AND DELIVER LIGHTING EQUIPMENT FOR STATEN ISLAND RAPID TRANSIT OPERATING AUTHORITY AND SENY PROJECTS	E	B		N	N	5		562,400	0	0	562,400	2/11/2015	O	1/17/2019	
4600002910	EVOQUA WATER TECHNOLOGIES LLC DBA FOR EWT HOLDINGS III CORP 95 LOWER MORRISVILLE RD FALLSINGTON, PA 19054-1403 US	SENY: DEMINERALIZED WATER TRAILERS	E	B		F	N	2		10,000,000	3,140,129	898,531	6,859,871	2/1/2015	O	1/31/2020	
4600002911	ACME INDUSTRIAL INC 326-328 FRONT ST STATEN ISLAND, NY 10304 US	SCPP ON-CALL GENERAL MAINTENANCE SERVICES	S	B		N	01	2		4,000,000	2,809,270	1,706,850	1,190,730	3/2/2015	O	3/1/2020	
4600002912	BOILERMATIC WELDING INDUSTRIES INC 17 PECONIC AVE MEDFORD, NY 11763-3201 US	SCPP ON-CALL GENERAL MAINTENANCE SERVICES	S	B		N	N	2		1,000,000	0	0	1,000,000	3/2/2015	O	3/1/2020	
4600002913	STANTON COMMUNICATIONS INC 1270 AVE OF THE AMERICAS - STE 1800 NEW YORK, NY 10020-1702 US	PUBLIC OUTREACH AND CORPORATE STRATEGIC COMMUNICATIONS SERVICES	P	B		N	N	21		300,573	300,573	0	0	3/2/2015	O	12/31/2019	
4600002914	BRAND COOL MARKETING 2300 EAST AVE - STE 1 ROCHESTER, NY 14610-2566 US	PUBLIC OUTREACH AND STRATEGIC COMMUNICATIONS SERVICES	P	B		N	N	21		5,000	0	0	5,000	3/2/2015	O	12/31/2019	

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4600002916	CROWLEY WEBB AND ASSOCIATES INC 268 MAIN ST STE 400 BUFFALO, NY 14202 US	PUBLIC OUTREACH AND STRATEGIC COMMUNICATIONS SERVICES	P	B		N	N	21		895,000	799,340	166,049	95,660	3/2/2015	O	12/31/2019	
4600002917	POWER ENGINEERS CONSULTING A PROFESSIONAL SERVICE CORP 100 JOHN L DIETSCH SQ NORTH ATTLEBORO, MA 02763-1028 US	PUBLIC OUTREACH AND STRATEGIC COMMUNICATIONS SERVICES	P	B		F	N	21		5,000	0	0	5,000	3/2/2015	O	12/31/2019	
4600002918	ENERACTIVE SOLUTIONS LLC 700 MATTISON AVE - STE A ASBURY PARK, NJ 07712-7021 US	ENERGY SERVICES	C	B		N	N	31		2,000,000	0	0	2,000,000	10/15/2014	O	10/14/2019	
4600002919	ENSIGN ENGINEERING PC 1111 CALHOUN AVE BRONX, NY 10465-1800 US	ENGINEERING SERVICES	A	B	8	N	03	9		300,000	282,775	110,466	17,225	2/2/2015	O	2/1/2020	
4600002922	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	BG: FERC PART 12 SAFETY INSPECTION FOR THE PUMPED STORAGE	P	B		N	N	3		300,000	169,632	128,007	130,368	3/13/2015	O	3/12/2020	
4600002927	EPS TECHNOLOGY INC 29 N PLAINS INDUSTRIAL HWY - STE 12 WALLINGFORD, CT 06492-5838 US	SENY: SWITCHYARD REPAIR AND MAINTENANCE	S	B		F	N	2		5,000,000	0	0	5,000,000	4/1/2015	O	3/31/2020	
4600002928	CH2M HILL ENGINEERING PA 9191 S JAMAICA ST ENGLEWOOD, CO 80112-5946 US	PD AND L SUPPORT SERVICE	P	B		N	N	15		5,000	0	0	5,000	4/1/2015	O	12/15/2019	
4600002930	ARCADIS OF NEW YORK INC 44 S BROADWAY - FL 15 WHITE PLAINS, NY 10601-4411 US	PD AND L SUPPORT SERVICE	P	B		N	N	15		5,000	0	0	5,000	4/1/2015	O	12/15/2019	
4600002932	TCI OF NY LLC PO BOX 936 COEYMANS, NY 12045-0936 US	DISPOSAL OF OIL FILLED ELECTRICAL EQUIPMENT	S	B		N	01	6		1,250,000	1,109,904	987,145	140,096	1/1/2016	O	3/31/2020	
4600002934	WENDEL ENERGY SERVICES LLC 375 ESSJAY RD - STE 200 WILLIAMSVILLE, NY 14221-5761 US	AUDIT, DESIGN AND TURNKEY SERVICES	S	B		N	N	31		130,000,000	29,097,507	20,848,527	100,902,493	4/6/2015	O	10/14/2019	
4600002935	HOLLAND & KNIGHT LLP 31 W 52ND ST - 11TH FL NEW YORK, NY 10019-6111 US	LEGAL COUNSEL-GENERAL LEGAL SERVICES	L	B		N	N	22		386,064	205,388	15,973	180,676	5/26/2015	O	5/25/2020	
4600002936	THE VALLEY GROUP INC 3A TROWBRIDGE DR BETHEL, CT 06801-2858 US	MAINTENANCE - DYNAMIC LINE RATING SYSTEMS	P	1	8	F	N	1		5,000	0	0	5,000	4/6/2015	O	3/31/2020	
4600002937	EDM INTERNATIONAL INC 4001 AUTOMATION WAY FORT COLLINS, CO 80525-3479 US	MAINTENANCE - SAGOMETER CONDUCTORS	P	1	8	N	N	1		141,250	113,000	28,250	28,250	4/1/2015	O	3/31/2020	
4600002938	CLEAN HARBORS ENVIRONMENTAL SERVICES INC 761 MIDDLE ST BRISTOL, CT 06010-7442 US	DISPOSAL OF OIL FILLED ELECTRICAL EQUIPMENT	S	B		N	N	6		5,000	0	0	5,000	1/1/2016	O	3/31/2020	
4600002940	RCM TECHNOLOGIES INC 333 WESTCHESTER AVE - STE E2100 WHITE PLAINS, NY 10604-2910 US	CONSTRUCTION MANAGEMENT	S	B		N	N	31		1,000,000	0	0	1,000,000	4/13/2015	O	10/14/2019	
4600002942	MICHAEL BELLANTONI INC 121 LAFAYETTE AVE WHITE PLAINS, NY 10603-1602 US	LAWN AND LANDSCAPING SERVICES	S	B		N	N	4		480,000	172,363	32,449	307,637	4/20/2015	O	5/11/2020	

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4600002944	LABELLA ASSOCIATES D P C 300 STATE ST - STE 201 ROCHESTER, NY 14614-1019 US	DESIGN ENGINEERING SERVICES	P	B		N	N	31		1,000,000	130,762	16,462	869,238	4/20/2015	O	10/14/2019	
4600002945	CIRCUIT BREAKER SALES NE INC 79 MAIN ST SEYMOUR, CT 06483-3122 US	SCPP BREAKER MAINTENANCE SERVICES	S	B		F	N	3		1,000,000	127,510	0	872,490	5/1/2015	O	4/30/2020	
4600002946	AMERICAN ELECTRICAL TESTING CO INC 25 FORBES BLVD UNIT 1 FOXBORO, MA 02035-2873 US	SENY: SWITCHYARD REPAIR AND MAINTENANCE	S	B		F	N	2		5,000,000	1,359,880	132,007	3,640,120	4/24/2015	O	4/23/2020	
4600002947	HAWKINS DELAFIELD & WOOD LLP 28 LIBERTY ST NEW YORK, NY 10005-1401 US	BOND, UNDERWRITER AND DISCLOSURE COUNSEL SERVICES	L	B		N	N	12		1,800,000	1,236,605	168,806	563,395	5/26/2015	O	5/25/2020	
4600002948	NIXON PEABODY LLP 437 MADISON AVE NEW YORK, NY 10022-7001 US	BOND, UNDERWRITER AND DISCLOSURE COUNSEL SERVICES	L	B		N	N	12		100,000	4,927	0	95,073	5/26/2015	O	5/25/2020	
4600002949	CARTER LEDYARD & MILBURN 2 WALL ST NEW YORK, NY 10005 US	LEGAL COUNSEL-GENERAL LEGAL SERVICES	L	B		N	N	22		320,000	129,033	36,024	190,967	5/26/2015	O	5/25/2020	
4600002950	STINSON LEONARD STREET LLP STE 800 1775 PENNSYLVANIA AVE NW WASHINGTON, DC 20006-4760 US	ENERGY LEGAL SERVICES	L	B		F	N	10		94,000	18,683	0	75,317	5/26/2015	O	5/25/2020	
4600002952	HOLLAND & KNIGHT LLP 31 W 52ND ST - 11TH FL NEW YORK, NY 10019-6111 US	ENERGY LEGAL SERVICES	L	B		N	N	10		5,293,725	3,967,833	1,753,743	1,325,892	5/26/2015	O	5/25/2020	
4600002953	JACKSON LEWIS PC 1 N BROADWAY FL 15 WHITE PLAINS, NY 10601-2310 US	GENERAL LEGAL SERVICES	L	B		N	N	22		468,088	314,188	166,743	153,900	5/26/2015	O	5/25/2020	
4600002954	GIBBONS P C 1 GATEWAY CTR - STE 300 NEWARK, NJ 07102-5321 US	GENERAL LEGAL SERVICES	L	B		F	N	22		600,472	390,489	77,848	209,983	4/30/2015	O	5/25/2020	
4600002955	NIXON PEABODY LLP 50 JERICHO QUADRANGLE - STE 300 JERICHO, NY 11753-2728 US	GENERAL LEGAL SERVICES	L	B		N	N	22		250,000	18,746	0	231,254	5/26/2015	O	5/25/2020	
4600002956	SAGE GROUP CONSULTING INC 3400 HIGHWAY 35 - STE 9 HAZLET, NJ 07730-1247 US	SAP TEMPORARY PROGRAMMING PERSONNEL	W	B	8	F	N	20		500,000	432,515	27,445	67,485	5/4/2015	C		12/31/2018
4600002957	HOLLAND & KNIGHT LLP 31 W 52ND ST - 11TH FL NEW YORK, NY 10019-6111 US	ENERGY LEGAL SERVICES	L	B		N	N	10		5,000	0	0	5,000	5/26/2015	C		1/2/2018
4600002960	BRYANT RABBINO LLP STE 610 1180 AVENUE OF THE AMERICAS NEW YORK, NY 10036-8407 US	BOND, UNDERWRITER AND DISCLOSURE COUNSEL SERVICES	L	B		N	04	12		244,480	75,669	31,721	168,811	5/26/2015	O	5/25/2020	
4600002962	MCCARTER & ENGLISH LLP 245 PARK AVE - FL 27 NEW YORK, NY 10167-2801 US	GENERAL LEGAL SERVICES	L	B		N	N	22		117,200	0	0	117,200	5/26/2015	C		5/25/2018
4600002963	HATCH ASSOCIATES CONSULTANTS INC 100 SYLVAN PKWY AMHERST, NY 14228-1146 US	ON-CALL ENGINEERING SERVICES	S	B		N	N	17		3,500,000	2,463,609	261,458	1,036,391	6/15/2015	O	12/31/2019	
4600002964	MCKENNA LONG & ALDRIDGE LLP 230 PARK AVE - STE 1700 NEW YORK, NY 10169-0005 US	BOND, UNDERWRITER AND DISCLOSURE COUNSEL SERVICES	L	B		N	N	12		5,000	0	0	5,000	5/26/2015	C		5/25/2018

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4600002966	BOND SCHOENECK & KING PLLC ATTORNEYS AT LAW 1 LINCOLN CENTER SYRACUSE, NY 13202-1355 US	ENERGY LEGAL SERVICES	L	B		N	N	10		5,000	0	0	5,000	5/27/2015	O	5/25/2020	
4600002967	PILLSBURY WINTHROP SHAW PITTMAN LLP 1200 17TH ST NW WASHINGTON, DC 20036-3006 US	LEGAL COUNSEL-GENERAL LEGAL SERVICES	L	B		F	N	22		206,440	19,232	0	187,208	5/26/2015	O	5/25/2020	
4600002968	ORRICK HERRINGTON & SUTCLIFFE LLP 51 W 52ND ST - FL 12 NEW YORK, NY 10019-6142 US	BOND, UNDERWRITER AND DISCLOSURE COUNSEL SERVICES	L	B		N	N	12		1,408,461	1,241,967	1,000,755	166,494	5/26/2015	O	5/25/2020	
4600002970	GRAVES HORTON ASKEW & JENKINS LLC 1750 K ST NW - STE 200 WASHINGTON, DC 20006-2322 US	LEGAL COUNSEL-GENERAL LEGAL SERVICES	L	B		F	04	22		5,000	0	0	5,000	5/26/2015	C		5/25/2018
4600002971	TOWNE RYAN & PARTNERS P C 450 NEW KARNER RD - STE 101 ALBANY, NY 12205-3898 US	LEGAL COUNSEL-GENERAL LEGAL SERVICES	L	B		N	03	22		5,000	0	0	5,000	5/26/2015	C		5/25/2018
4600002972	FRESH MEADOW POWER LLC 6501 FRESH MEADOW LN FRESH MEADOWS, NY 11365-2011 US	SENY: ON-CALL GENERAL MAINTENANCE SERVICES	S	B		N	N	3		30,000,000	14,049,310	4,146,950	15,950,690	6/1/2015	O	5/31/2020	
4600002973	BARCLAY DAMON LLP 300 S STATE ST SYRACUSE, NY 13202-2024 US	ENERGY LEGAL SERVICES	L	B		N	N	10		500,000	405,851	256,998	94,149	5/26/2015	O	5/26/2020	
4600002974	BARCLAY DAMON LLP 300 S STATE ST SYRACUSE, NY 13202-2024 US	LEGAL COUNSEL-GENERAL LEGAL SERVICES	L	B		N	N	22		5,000	0	0	5,000	5/26/2015	O	5/25/2020	
4600002975	BOND SCHOENECK & KING PLLC 1010 FRANKLIN AVE RM 200 GARDEN CITY, NY 11530-2900 US	LEGAL COUNSEL-GENERAL LEGAL SERVICES	L	B		N	N	22		935,100	535,908	216,415	399,192	5/26/2015	O	5/25/2020	
4600002976	BLEAKLEY PLATT & SCHMIDT LLP 1 N LEXINGTON AVE WHITE PLAINS, NY 10601-1712 US	LEGAL COUNSEL-GENERAL LEGAL SERVICES	L	B		N	N	22		270,000	121,270	58,170	148,730	5/26/2015	O	5/25/2020	
4600002978	GRUNAU COMPANY INC 8302 SOUTHERN BLVD BOARDMAN, OH 44512 US	SENY FIRE ALARM, PROTECTION SYSTEM INSPECTION AND MAINTENANCE SERVICES	S	B		F	N	1		3,000,000	790,989	181,133	2,209,011	7/15/2015	O	7/14/2020	
4600002979	UNIQUE COMP INC 2708 42ND RD LONG ISLAND CITY, NY 11101-4112 US	SAP TEMPORARY PROGRAMMING PERSONNEL	W	B	8	N	04	20		2,600,000	2,135,781	667,568	464,219	6/10/2015	C		12/31/2018
4600002980	NAVIGANT CONSULTING INC 30 S WACKER DR - STE 3100 CHICAGO, IL 60606-7444 US	PROFESSIONAL SERVICES FOR NYPA'S RELIABILITY STANDARDS AND COMPLIANCE GROUP	P	B		F	N	13		7,298,856	6,298,104	615,558	1,000,752	7/1/2015	O	6/30/2020	
4600002981	KEMA INC 67 S BEDFORD ST - STE 201 E BURLINGTON, MA 01803-6803 US	PROFESSIONAL SERVICES FOR NYPA'S RELIABILITY STANDARDS AND COMPLIANCE GROUP	P	B		F	N	13		308,301	203,968	36,087	104,333	7/1/2015	O	6/30/2020	
4600002982	QUANTA TECHNOLOGY LLC 4020 WESTCHASE BLVD - STE 300 RALEIGH, NC 27607-3960 US	PROFESSIONAL SERVICES FOR NYPA'S RELIABILITY STANDARDS AND COMPLIANCE GROUP	P	B		F	N	13		589,299	388,210	48,911	201,089	7/1/2015	O	6/30/2020	
4600002983	STANDARD SOLAR INC 1355 PICCARD DR - STE 300 ROCKVILLE, MD 20850-4336 US	FURNISH ALL DESIGN SERVICES, LABOR, MATERIAL, AND SUPERVISION TURN-KEY PV SYSTEMS FOR BOTH NEW YORK CITY AND STATEWIDE	E	B		F	N	10		5,000	0	0	5,000	6/15/2015	O	5/19/2020	

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4600002984	CEMTEK SYSTEMS INC 1750 BRIELLE AVE - STE B2 OCEAN, NJ 07712-3953 US	CONTINUOUS EMISSION MONITORING	S	B		N	N	2		1,500,000	1,078,921	357,039	421,079	4/1/2015	O	3/31/2020	
4600002985	TURF-TEC OF WESTERN NEW YORK INC 5096 LOCKPORT RD LOCKPORT, NY 14094-9630 US	MAINTENANCE SERVICES FOR THE UPKEEP OF THE LAWN AND MEADOW AREAS AT THE NIAGARA POWER PROJECT INTAKE AND UPPER OBSERVATION AREAS	S	B		N	03	4		232,962	139,539	58,726	93,423	7/6/2015	O	7/7/2020	
4600002986	CLEARBID INC 48 SENECA ST DOBBS FERRY, NY 10522-1137 US	ON-CALL FAIR MARKET VALUATION AND PROCUREMENT SUPPORT SERVICES	P	B		N	N	3		5,000	0	0	5,000	6/19/2015	C		6/18/2018
4600002987	ERNST & YOUNG LLP 5 TIMES SQ NEW YORK, NY 10036-6540 US	SAP CONSULTING SERVICES	P	B		F	N	19		15,537,098	14,937,618	4,473,015	599,480	7/1/2015	O	6/30/2019	
4600002988	MONTANTE SOLAR DBA FOR TM MONTANTE SOLAR DEVELOP 2760 KENMORE AVE TONAWANDA, NY 14150-7707 US	FURNISH ALL DESIGN SERVICES, LABOR, MATERIAL, AND SUPERVISION TURN-KEY PV SYSTEMS FOR BOTH NEW YORK CITY AND STATEWIDE	E	B		N	N	10		5,000	0	0	5,000	7/10/2015	O	5/19/2020	
4600002989	AERY LIGHTING SUPPLY 3 WESTCHESTER PLZ STE 177 ELMSFORD, NY 10523-1609 US	HELP FURNISH AND DELIVER LIGHTING EQUIPMENT FOR WESTCHESTER COUNTY STREET WIDE	E	B		N	N	7		2,500,000	0	0	2,500,000	7/15/2015	O	7/14/2019	
4600002990	L J GONZER ASSOCIATES 14 COMMERCE DR - STE 305 CRANFORD, NJ 07016 US	ENERGY EFFICIENCY STAFF AUGMENTATION SERVICES	W	B		F	N	6		2,002,000	1,263,860	262,798	738,140	7/2/2015	O	7/1/2020	
4600002991	HILL INTERNATIONAL INC 1 COMMERCE SQ # 17 2005 MARKET ST PHILADELPHIA, PA 19103-1415 US	ENERGY EFFICIENCY STAFF AUGMENTATION SERVICES	W	B		F	N	6		1,500,000	1,154,107	125,164	345,893	7/2/2015	O	6/30/2020	
4600002992	RCM TECHNOLOGIES INC FACILITIES DESIGN & CONSTRUCTION 2500 MCCLELLAN AVE - STE 350 PENNSAUKEN, NJ 08109-4617 US	ENERGY EFFICIENCY STAFF AUGMENTATION SERVICES	W	B		N	N	6		700,000	367,565	0	332,435	7/2/2015	C		7/1/2018
4600002993	DONIA & ASSOCIATES LLC 128 NEWTON ST APT 6A BROOKLYN, NY 11222-4862 US	ENERGY EFFICIENCY STAFF AUGMENTATION SERVICES	W	B		F	04	6		300,000	0	0	300,000	7/2/2015	O	7/1/2020	
4600002994	NPTS INC 2060 SHERIDAN DR BUFFALO, NY 14223-1470 US	ENERGY EFFICIENCY STAFF AUGMENTATION SERVICES	W	B		F	04	6		2,715,000	2,143,435	741,814	571,565	7/2/2015	O	7/1/2020	
4600002995	GRAYBAR ELECTRIC CO INC 229 CHURCH ST ALBANY, NY 12202-1060 US	HELP FURNISH AND DELIVER LIGHTING EQUIPMENT FOR WESTCHESTER COUNTY STREET WIDE	E	B		N	N	7		2,500,000	0	0	2,500,000	7/15/2015	O	7/14/2019	
4600002996	A-1 TECHNOLOGY INC 115 BROADWAY RM 1304 NEW YORK, NY 10006-1626 US	SAP CONSULTING SERVICES	P	B		N	04	19		200,000	0	0	200,000	7/1/2015	C		6/30/2018
4600002997	GROM ASSOCIATES INC 1 MAIN ST FLEMINGTON, NJ 08822-1420 US	SAP CONSULTING SERVICES	W	B		F	N	19		200,000	74,991	74,991	125,009	7/1/2015	O	6/30/2019	
4600002998	HEWLETT PACKARD CO PO BOX 101149 ATLANTA, GA 30392-1149 US	SAP CONSULTING SERVICES	P	B		F	N	19		200,000	0	0	200,000	7/1/2015	C		6/30/2018
4600002999	NTT DATA INC 100 CITY SQ BOSTON, MA 02129-3721 US	SAP CONSULTING SERVICES	P	B		F	N	19		200,000	0	0	200,000	7/1/2015	C		6/30/2018

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4600003000	QUINTEL-MC INC 5910 S UNIVERSITY BLVD STE C18-193 GREENWOOD VILLAGE, CO 80121-2879 US	SAP CONSULTING SERVICES	P	B		F	N	19		200,000	0	0	200,000	7/1/2015	C		6/30/2018
4600003001	SAGE GROUP CONSULTING INC 3400 HIGHWAY 35 - STE 9 HAZLET, NJ 07730-1247 US	SAP CONSULTING SERVICES	P	B		F	N	19		200,000	0	0	200,000	7/1/2015	C		6/30/2018
4600003002	SIERRA INFOSYS INC 6001 SAVOY DR STE 210 HOUSTON, TX 77036-3322 US	SAP CONSULTING SERVICES	P	B		F	04	19		200,000	0	0	200,000	7/1/2015	C		6/30/2018
4600003003	U-TEGRATION INC 5177 RICHMOND AVE STE 530 HOUSTON, TX 77056-6799 US	SAP CONSULTING SERVICES	P	B	8	F	N	19		7,178,456	5,971,676	0	1,206,780	7/1/2015	C		6/30/2018
4600003004	GYANSYS INC 702 ADAMS ST CARMEL, IN 46032-7541 US	SAP CONSULTING SERVICES	P	B		F	N	19		200,000	0	0	200,000	7/1/2015	C		6/30/2018
4600003006	LUMEN LIGHT SOLUTIONS LLC 969 MIDLAND AVE YONKERS, NY 10704-1027 US	HELP FURNISH AND DELIVER LIGHTING EQUIPMENT FOR WESTCHESTER COUNTY STREET WIDE	E	B		N	N	7		2,500,000	806,049	0	1,693,951	7/15/2015	C		7/14/2018
4600003008	APPLIED ECOLOGICAL SERVICES INC 17921 W SMITH RD BRODHEAD, WI 53520-9355 US	PROVIDE INVASIVE SPECIES CONTROL TREATMENTS	S	B		N	N	4		72,730	35,820	11,135	36,910	7/14/2015	O	7/13/2020	
4600003009	RCM TECHNOLOGIES INC FACILITIES DESIGN & CONSTRUCTION 2500 MCCLELLAN AVE - STE 350 PENNSAUKEN, NJ 08109-4617 US	ON-CALL ENGINEERING SERVICES	S	B		N	N	17		5,000	0	0	5,000	7/14/2015	O	12/31/2019	
4600003010	C & S ENGINEERS INC 499 COL EILEEN COLLINS BLVD SYRACUSE, NY 13212-3931 US	ON-CALL ENGINEERING SERVICES	S	B		N	N	17		100,000	34,152	4,815	65,848	7/15/2015	O	12/31/2019	
4600003011	GREENMAN-PEDERSEN INC 400 RELLA BLVD - STE 207 MONTEBELLO, NY 10901-4256 US	ON-CALL ENGINEERING SERVICES	S	B		F	N	17		2,200,000	1,126,452	668,644	1,073,548	9/21/2015	O	12/31/2019	
4600003012	DENTONS US LLP 230 PARK AVE - STE 1700 NEW YORK, NY 10169-0005 US	BOND, UNDERWRITER AND DISCLOSURE COUNSEL SERVICES	L	B		N	N	12		89,950	64,950	64,950	25,000	5/26/2015	O	5/25/2020	
4600003013	ALTRAN US CORP 1 ADVANTAGE CT - STE A BORDENTOWN, NJ 08505-9630 US	ON-CALL ENGINEERING SERVICES	S	B		F	N	17		1,131,459	846,157	303,560	285,302	9/22/2015	O	12/31/2019	
4600003014	KLEINSCHMIDT ASSOCIATES PA PC PO BOX 650 PITTSFIELD, ME 04967-0650 US	ON-CALL ENGINEERING SERVICES	S	B		F	N	17		1,200,000	536,315	263,872	663,685	7/27/2015	O	12/31/2019	
4600003015	NAVIGANT CONSULTING INC 1180 PEACHTREE ST NE - STE 1900 ATLANTA, GA 30309-7525 US	ON-CALL FAIR MARKET VALUATION AND PROCUREMENT SUPPORT SERVICES	P	B		N	N	3		5,000	0	0	5,000	7/24/2015	C		6/30/2018
4600003016	WESCO DISTRIBUTION INC 500 PRIME PL HAUPPAUGE, NY 11788-5305 US	HELP - FURNISH AND DELIVER LIGHTING FIXTURES FOR COLLEGE POINT BUS DEPOT, ANNE HUTCHINSON SCHOOL, HARBOR SHOP AND ASSORTED SENY PROJECTS	E	B		N	N	1		366,424	205,428	0	160,996	7/15/2015	C		7/14/2018

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4600003017	HAIDER ENGINEERING PC 91 TOLEDO ST FARMINGDALE, NY 11735-6620 US	ON-CALL ENGINEERING SERVICES	S	B		N	04	17		200,000	146,338	0	53,662	7/15/2015	O	12/31/2019	
4600003018	GENESYS ENGINEERING PC 629 FIFTH AVE - STE 111 PELHAM, NY 10803 US	ON-CALL ENGINEERING SERVICES	S	B		N	N	17		5,000	0	0	5,000	7/15/2015	O	12/31/2019	
4600003020	WESCO DISTRIBUTION INC 500 PRIME PL HAUPPAUGE, NY 11788-5305 US	HELP - FURNISH AND DELIVER LIGHTING FIXTURES FOR ASSORTED PROJECTS	E	B		N	N	1		108,190	46,384	0	61,806	7/17/2015	O	7/19/2019	
4600003023	REALTIME UTILITY ENGINEERS INC 2908 MARKETPLACE DR - STE 100 FITCHBURG, WI 53719-5318 US	ON-CALL ENGINEERING SERVICES	S	B		N	N	17		1,200,000	783,827	1,679	416,173	7/1/2015	O	12/31/2019	
4600003024	22ND CENTURY TECHNOLOGIES INC 1 EXECUTIVE DR - STE 285 SOMERSET, NJ 08873-4024 US	IT TEMPORARY PERSONNEL	W	B	8	N	N	74		350,000	158,552	0	191,448	8/1/2015	O	7/31/2019	
4600003026	ARTECH INFORMATION SYSTEMS LLC 360 MOUNT KEMBLE AVE - STE 2 MORRISTOWN, NJ 07960-6662 US	IT TEMPORARY PERSONNEL	W	B	8	N	N	74		1,409,000	1,025,524	287,595	383,476	8/1/2015	O	7/31/2019	
4600003027	CARLYLE CONSULTING SERVICES INC 641 LEXINGTON AVE - STE 1526 NEW YORK, NY 10022 US	IT TEMPORARY PERSONNEL	W	B	8	N	01	74		5,934,000	4,591,142	656,773	1,342,858	8/1/2015	O	7/31/2019	
4600003028	CLARUSTEC INC 347 PLAINFIELD AVE - STE 104 EDISON, NJ 08817-3163 US	T TEMPORARY PERSONNEL	W	B	8	N	N	74		236,000	18,900	18,900	217,100	8/1/2015	O	7/31/2019	
4600003029	DONNELLY & MOORE CORP DBA FOR DONNELLY & MOORE INC 14 WALL ST - FL 20 NEW YORK, NY 10005-2123 US	IT TEMPORARY PERSONNEL	W	B	8	N	04	74		3,105,000	2,155,722	719,557	949,278	8/1/2015	O	7/31/2019	
4600003030	ECLARO INTERNATIONAL INC 450 7TH AVE - STE 506 NEW YORK, NY 10123-0506 US	IT TEMPORARY PERSONNEL	W	B	8	N	04	74		1,432,000	836,310	216,667	595,690	8/1/2015	O	7/31/2019	
4600003031	GARNET RIVER LLC 60 RAILROAD PL - STE 501 SARATOGA SPRINGS, NY 12866-3048 US	IT TEMPORARY PERSONNEL	W	B	8	N	N	74		250,000	150,666	0	99,334	8/1/2015	O	7/31/2019	
4600003032	INDOTRONIX INTERNATIONAL CORP 331 MAIN ST - STE 108 POUGHKEEPSIE, NY 12601-3145 US	IT TEMPORARY PERSONNEL	W	B	8	N	04	74		400,000	232,690	0	167,310	8/1/2015	O	7/31/2019	
4600003033	MINDLANCE INC 1095 MORRIS AVE - UNIT 101A UNION, NJ 07083-7143 US	IT TEMPORARY PERSONNEL	W	B	8	N	N	74		3,663,718	2,512,700	827,192	1,151,018	8/1/2015	O	7/31/2019	
4600003034	NEOTECRA INC 40 EXCHANGE PL - STE 1301 NEW YORK, NY 10005-2741 US	IT TEMPORARY PERSONNEL	W	B	8	N	04	74		90,000	33,600	0	56,400	8/1/2015	O	7/31/2019	
4600003035	SOFTWARE GUIDANCE & ASSISTANCE INC 200 WHITE PLAINS RD - STE 475 TARRYTOWN, NY 10591-5805 US	IT TEMPORARY PERSONNEL	W	B	8	N	N	74		2,522,236	2,173,164	150,584	349,072	8/1/2015	O	7/31/2019	
4600003036	TRIGYN TECHNOLOGIES INC 100 METROPLEX DR - STE 101 EDISON, NJ 08817-2684 US	IT TEMPORARY PERSONNEL	W	B	8	N	N	74		2,600,000	1,882,042	856,105	717,958	8/1/2015	O	7/31/2019	

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4600003037	UNIQUE COMP INC 2708 42ND RD LONG ISLAND CITY, NY 11101-4112 US	IT TEMPORARY PERSONNEL	W	B	8	N	04	74		900,000	845,731	153,258	54,269	8/1/2015	O	7/31/2019	
4600003038	SYSTEM EDGE (USA) LLC FL 4 555 US RTE 1 S-WOODBRIDGE TOWE ISELIN, NJ 08830 US	IT TEMPORARY PERSONNEL	W	B	8	N	04	74		20,000	0	0	20,000	8/1/2015	O	7/31/2019	
4600003039	CMA CONSULTING SERVICES DBA FOR CURRIER MCCABE & ASSOC INC 700 TROY SCHENECTADY RD LATHAM, NY 12110-2456 US	IT TEMPORARY PERSONNEL	W	B	8	N	03	74		250,000	63,690	0	186,310	8/1/2015	O	7/31/2019	
4600003040	BIO-ONE INC 47 HUDSON HOLLOW RD SHOKAN, NY 12481-5339 US	PROVIDE INFECTIOUS DISEASE RESPONSE AND CRIME SCENE CLEAN UP	S	B		N	N	1		50,000	2,785	0	47,215	8/18/2015	C		7/31/2018
4600003041	DAIKIN APPLIED AMERICAS INC DBA DAIKIN APPLIED 13600 INDUSTRIAL PARK BLVD MINNEAPOLIS, MN 55441-3743 US	SCPP CHILLER MAINTENANCE SERVICES	S	B		N	N	2		5,000,000	2,258,957	1,331,245	2,741,043	8/17/2015	O	8/16/2020	
4600003042	RUBY CANYON ENGINEERING INC 743 HORIZON CT - STE 385 GRAND JUNCTION, CO 81506-8741 US	VERIFICATION SERVICES OF REPORTED INVENTORY FOR CLIMATE REGISTRY	P	B		N	N	1		5,000	0	0	5,000	7/1/2015	O	12/31/2019	
4600003043	SOLAR LIBERTY ENERGY SYSTEMS INC 6500 SHERIDAN DR - STE 120 BUFFALO, NY 14221-4845 US	ROOF MOUNTED PV SYSTEM NY CITY SCHOOLS PHASE II	E	B		N	N	10		1,839,680	985,438	0	854,242	9/1/2015	O	5/19/2020	
4600003044	MUNICIPAL TESTING LABORATORY INC 375 RABRO DR - PO BOX 14124 HAUPPAUGE, NY 11788-4227 US	SERVICES OF SPECIAL INSPECTION CONSULTANT	P	B		N	N	6		2,000,000	585,217	187,254	1,414,783	9/11/2015	O	9/10/2020	
4600003045	HAIDER ENGINEERING PC 91 TOLEDO ST FARMINGDALE, NY 11735-6620 US	SERVICES OF SPECIAL CONSULTANT	P	B		N	04	6		2,000,000	19,060	19,060	1,980,940	9/30/2015	O	9/29/2020	
4600003046	TECTONIC ENGINEERING & SURVEYING CONSULTANTS PC 11835 QUEENS BLVD - STE 1000 FOREST HILLS, NY 11375-7200 US	SERVICES OF SPECIAL INSPECTION CONSULTANT	P	B		N	N	6		2,000,000	292,308	108,964	1,707,692	9/30/2015	O	9/29/2020	
4600003047	ATANE ENGINEERS ARCHITECTS AND LAND SURVEYORS DPC 40 WALL ST - FL 11 NEW YORK, NY 10005-1357 US	SERVICES OF SPECIAL INSPECTION CONSULTANT	P	B		N	N	6		2,000,000	7,836	7,836	1,992,164	9/30/2015	O	9/29/2020	
4600003048	CLARKSON UNIVERSITY 8 CLARKSON AVE POTSDAM, NY 13699 US	RIVER FLOW FORECASTS	P	2	8	N	N	1		249,800	53,850	0	195,950	9/10/2015	C		12/31/2018
4600003049	THE CADMUS GROUP LLC 100 5TH AVE - STE 100 WALTHAM, MA 02451-8703 US	K-SOLAR PERMIT EXPEDITOR SERVICES	P	B		F	N	6		1,000,000	248,967	112,112	751,033	9/11/2015	O	9/10/2019	
4600003050	TECTONIC ENGINEERING & SURVEYING CONSULTANTS PC 70 PLEASANT HILL RD - PO BOX 37 MOUNTAINVILLE, NY 10953 US	K-SOLAR PERMIT EXPEDITOR SERVICES	P	B		N	N	6		1,000,000	5,480	0	994,520	9/11/2015	C		9/10/2018

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4600003051	CORE FACILITY SERVICES LLC 150 E 42ND ST - RM 701 NEW YORK, NY 10017-5688 US	BUILDING ENGINEERING SERVICES	S	B		N	N	3		4,500,000	3,741,538	1,410,802	758,462	10/1/2015	O	9/30/2020	
4600003055	FIRST INFRASTRUCTURE LLC PO BOX 286 MILL RIVER, MA 01244-0286 US	PROJECT FINANCE ADVISORY SERVICES	P	B		F	N	7		449,000	443,215	29,300	5,785	10/5/2015	O	10/4/2020	
4600003056	THE BRATTLE GROUP INC 44 BRATTLE ST CAMBRIDGE, MA 02138-3736 US	PROJECT FINANCE ADVISORY SERVICES	P	B		F	N	7		5,000	0	0	5,000	10/5/2015	O	10/4/2020	
4600003058	M G MCLAREN PC 100 SNAKE HILL RD WEST NYACK, NY 10994 US	UNDERWATER INSPECTION SERVICES - NYPA FACILITIES	S	C		N	N	8		500,000	60,315	0	439,685	1/1/2016	O	12/31/2020	
4600003059	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	UNDERWATER INSPECTION SERVICES @ NYPA FACILITIES	S	C		N	01	8		1,500,000	1,218,617	648,942	281,383	1/1/2016	O	12/31/2020	
4600003060	WELLFORD PORTFOLIO MANAGEMENT LLC 110 E 42ND ST - RM 1310 NEW YORK, NY 10017-8529 US	PROJECT FINANCE ADVISORY SERVICES	P	B		N	N	7		5,000	0	0	5,000	1/12/2016	O	10/21/2020	
4600003061	OPTIMAL ENERGY INC 10600 ROUTE 116 - STE 3 HINESBURG, VT 05461-8501 US	PROGRAM STRATEGY AND DEVELOPMENT CONSULTING SERVICES	P	B		F	N	16		94,742	29,185	29,185	65,557	11/2/2015	O	11/1/2020	
4600003063	FIREFLY ENERGY CONSULTING LLC 4227 CALCULUS DR DALLAS, TX 75244-7314 US	PROGRAM STRATEGY AND DEVELOPMENT CONSULTING SERVICES	P	B		F	03	16		34,818	0	0	34,818	11/2/2015	O	11/1/2020	
4600003064	BURO HAPPOLD CONSULTING ENG PC DBA HAPPOLD CONSULTING 100 BROADWAY FL 23 NEW YORK, NY 10005-4502 US	PROGRAM STRATEGY AND DEVELOPMENT CONSULTING SERVICES	P	B		F	N	16		2,383,852	1,734,918	1,724,900	648,934	11/2/2015	O	11/1/2020	
4600003065	KEMA INC 67 S BEDFORD ST - STE 201 E BURLINGTON, MA 01803-6803 US	PROGRAM STRATEGY AND DEVELOPMENT CONSULTING SERVICES	P	B		F	N	16		5,000	0	0	5,000	11/2/2015	O	11/1/2020	
4600003066	ICF RESOURCES LLC 9300 LEE HIGHWAY FAIRFAX, VA 22031-6050 US	PROGRAM STRATEGY AND DEVELOPMENT CONSULTING SERVICES	P	B		F	N	16		1,100,000	561,434	347,756	538,566	11/2/2015	O	11/1/2020	
4600003067	NAVIGANT CONSULTING INC 685 3RD AVE - FL 14 NEW YORK, NY 10017-4024 US	PROGRAM STRATEGY AND DEVELOPMENT CONSULTING SERVICES	P	B		F	N	16		1,085,000	566,618	545,814	518,382	11/2/2015	O	11/1/2020	
4600003068	NEXANT INC 44 S BROADWAY - STE 404 WHITE PLAINS, NY 10601-4439 US	PROGRAM STRATEGY AND DEVELOPMENT CONSULTING SERVICES	P	B		F	N	16		5,000	0	0	5,000	11/2/2015	O	11/1/2020	
4600003070	MERCER THOMPSON LLC 191 PEACHTREE ST NE - STE 4410 ATLANTA, GA 30303-1756 US	LEGAL CONSULTING SERVICES	L	2	5	F	N	1		750,000	11,988	891	738,012	2/22/2016	O	2/21/2021	
4600003071	CEC STUYVESANT COVE INC DBA SOLAR ONE 37 W 26TH ST - RM 209 NEW YORK, NY 10010-1129 US	TEACHER WORKSHOPS IN SUPPORT OF K-SOLAR THROUGHOUT NYS	P	2	8	N	N	1		250,000	27,286	3,994	222,714	11/23/2015	O	11/22/2019	
4600003073	KIVVIT DBA FOR ASGK PUBLIC STRATEGIES LLC 200 VARICK ST - STE 201 NEW YORK, NY 10014-4871 US	PUBLIC OUTREACH AND STRATEGIC COMMUNICATIONS SERVICES	P	B		N	N	21		890,000	727,216	364,176	162,784	3/2/2015	O	12/31/2019	

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4600003075	CLEAN HARBORS ENVIRONMENTAL SERVICES INC 761 MIDDLE ST BRISTOL, CT 06010-7442 US	WASTE DISPOSAL, RECYCLING SERVICES, AND TRANSPORTATION OF DOT HAZARDOUS MATERIALS, HAZARDOUS WASTE, UNIVERSAL AND INDUSTRIAL WASTE	S	B		F	N	2		2,000,000	928,573	314,652	1,071,427	1/1/2016	O	12/31/2020	
4600003076	TRADEBE ENVIRONMENTAL SERVICES LLC 47 GRACEY MERIDEN, CT 06451 US	WASTE DISPOSAL AND RECYCLING SERVICES	S	B		F	N	2		2,000,000	270,676	105,156	1,729,324	1/1/2016	O	12/31/2020	
4600003077	VEOLIA ES TECHNICAL SOLUTIONS LLC DBA FOR VEOLIA NORTH AMERICA INC 1 EDEN LN FLANDERS, NJ 07836-8950 US	WASTE DISPOSAL AND RECYCLING SERVICES	S	B		F	N	2		2,000,000	18,756	6,284	1,981,244	1/1/2016	O	12/31/2020	
4600003078	CYCLE CHEM INC 201 S 1ST ST ELIZABETH, NJ 07206-1502 US	WASTE DISPOSAL, RECYCLING SERVICES, AND TRANSPORTATION OF DOT HAZARDOUS MATERIALS, HAZARDOUS WASTE, UNIVERSAL AND INDUSTRIAL WASTE	S	B		F	N	2		1,200,000	48,073	6,128	1,151,927	1/1/2016	O	12/31/2020	
4600003080	VEOLIA ES TECHNICAL SOLUTIONS LLC DBA FOR VEOLIA NORTH AMERICA INC 1275 MINERAL SPRINGS DR PORT WASHINGTON, WI 53074-2163 US	ASSET MANAGEMENT AND RECYCLING OF ELECTRONIC EQUIPMENT	S	B		F	N	6		300,000	43,961	17,030	256,039	1/1/2016	O	12/31/2020	
4600003081	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	STATEWIDE: EMERGENCY REPAIRS AND MAINTENANCE ON ALL OF THE AUTHORITY'S ABB SF6 CIRCUIT BREAKERS	S	1	5	F	N	1		500,000	0	0	500,000	1/1/2016	O	12/31/2020	
4600003083	RUSSELL REID WASTE HAULING AND DISP MR JOHN PORTABLE SANITATION UNITS I 200 SMITH ST - PO BOX 130 KEASBEY, NJ 08832-1159 US	WASTE WATER REMOVAL AND DISPOSAL	S	B		N	N	3		1,500,000	434,678	165,719	1,065,322	1/4/2016	O	12/31/2020	
4600003084	BRG MACHINERY CONSULTING LLC 3241 PLANK RD NORTH GARDEN, VA 22959-2324 US	SENY: CONSULTING SERVICES TO PROVIDE SUPPORT ON ALL MAJOR ROTATING MACHINERY AND NUOVO PIGNONE GAS COMPRESSORS	P	B		F	N	1		5,000,000	1,590,430	211,306	3,409,570	1/20/2016	O	1/19/2021	
4600003085	C D PERRY LLC PO BOX 866 TROY, NY 12181-0866 US	UPGRADE OF TAINTER GATES AT CRESCENT HYDRO	C	B		N	01	3		2,580,208	2,277,528	301,644	302,680	1/28/2016	O	3/30/2019	
4600003091	ERNST & YOUNG LLP 5 TIMES SQ NEW YORK, NY 10036-6540 US	MAXIMO CONSULTING SERVICES	P	B		N	N	7		500,000	0	0	500,000	1/20/2016	O	4/10/2021	
4600003093	FULCRUM FACILITIES SERVICES DBA THE FULCRUM GROUP 80 BROAD ST - STE 1601 NEW YORK, NY 10004-2209 US	EXPEDITED IMPLEMENTATION SERVICES	C	B		F	N	20		10,000,000	0	0	10,000,000	9/28/2015	O	9/28/2020	
4600003094	CDM CONSTRUCTORS INC 60 CROSSWAYS PARK W - STE 340 WOODBURY, NY 11797-2018 US	EXPEDITED IMPLEMENTATION SERVICES	C	B		F	N	20		10,000,000	0	0	10,000,000	9/28/2015	O	9/28/2020	

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4600003095	DYNAMIC US INC 2900 WESTCHESTER AVE STE 207 PURCHASE, NY 10577-2551 US	EXPEDITED IMPLEMENTATION SERVICES	C	B		N	N	20		20,000,000	11,895,566	9,487,048	8,104,434	9/28/2015	O	9/28/2020	
4600003096	LIRO PROGRAM & CONSTRUCTION MANAGEMENT PE PC 3 AERIAL WAY SYOSSET, NY 11791-5501 US	EXPEDITED IMPLEMENTATION SERVICES	C	B		N	N	20		10,000,000	0	0	10,000,000	9/28/2015	O	9/28/2020	
4600003097	ARCADIS OF NEW YORK INC 44 S BROADWAY - FL 15 WHITE PLAINS, NY 10601-4411 US	EXPEDITED IMPLEMENTATION SERVICES	C	B		F	N	20		10,000,000	0	0	10,000,000	9/28/2015	O	9/28/2020	
4600003099	BAY CRANE SERVICE INC 11-02 43RD AVE LONG ISLAND CITY, NY 11101-9717 US	SENY: CRANE RENTAL WITH OPERATOR SERVICES	E	B		N	N	2		4,000,000	372,968	185,570	3,627,032	1/25/2016	O	4/10/2021	
4600003100	GENCON CONSTRUCTION CO 393 SMITH RD SHIRLEY, NY 11967-2214 US	SENY: CRANE RENTAL WITH OPERATOR SERVICES	E	B		N	01	2		1,000,000	70,600	70,600	929,400	1/25/2016	O	4/10/2021	
4600003102	STARBOARD CONSULTING LLC 2170 W STATE ROAD 434 - STE 124 LONGWOOD, FL 32779-4976 US	MAXIMO CONSULTING SERVICES	P	B		F	03	7		2,500,000	1,857,776	651,704	642,224	1/20/2016	O	1/21/2021	
4600003103	TOTAL RESOURCE MANAGEMENT INC 510 KING ST STE 300 ALEXANDRIA, VA 22314-3132 US	MAXIMO CONSULTING SERVICES	P	B		F	N	7		1,500,000	393,152	0	1,106,848	1/20/2016	O	1/21/2021	
4600003104	INTERLOC SOLUTIONS INC 340 PALLADIO PKWY - STE 526 FOLSOM, CA 95630-8833 US	MAXIMO CONSULTING SERVICES	P	B		F	N	7		500,000	0	0	500,000	1/26/2016	O	1/25/2021	
4600003106	ALTRAN US CORP 1 ADVANTAGE CT - STE A BORDENTOWN, NJ 08505-9630 US	CYBER SECURITY CONSULTING SERVICES	P	B	8	F	N	40		444,445	0	0	444,445	5/9/2016	O	12/31/2020	
4600003107	ERNST & YOUNG LLP 5 TIMES SQ NEW YORK, NY 10036-6540 US	CYBER SECURITY CONSULTING SERVICES	P	B	8	N	N	40		400,000	0	0	400,000	2/1/2016	O	1/31/2021	
4600003108	GARNET RIVER LLC 60 RAILROAD PL - STE 501 SARATOGA SPRINGS, NY 12866-3048 US	CYBER SECURITY CONSULTING SERVICES	P	B	8	N	N	40		400,000	0	0	400,000	6/20/2016	O	12/31/2020	
4600003111	GOTHAM TECHNOLOGY GROUP LLC 1 PARAGON DR - STE 200 MONTVALE, NJ 07645 US	CYBER SECURITY CONSULTING SERVICES	P	B	8	N	N	40		400,000	0	0	400,000	2/1/2016	O	1/31/2021	
4600003113	GREYCASTLE SECURITY LLC 500 FEDERAL ST - STE 540 TROY, NY 12180-8350 US	CYBER SECURITY CONSULTING SERVICES	P	B	8	N	01	40		400,000	0	0	400,000	3/14/2016	O	1/31/2021	
4600003114	KMQ ENTERPRISES INC DBA TAILWIND ASSOCIATES 1462 ERIE BLVD SCHENECTADY, NY 12305-1026 US	CYBER SECURITY CONSULTING SERVICES	P	B	8	N	03	40		400,000	0	0	400,000	2/1/2016	O	1/31/2021	
4600003115	PA CONSULTING GROUP INC 405 LEXINGTON AVE - FL 45 NEW YORK, NY 10174-0002 US	CYBER SECURITY CONSULTING SERVICES	P	B	8	N	N	40		440,000	213,587	0	226,413	6/20/2016	O	12/21/2020	
4600003117	A & A MAINTENANCE ENTERPRISE INC 965 MIDLAND AVE YONKERS, NY 10704-1027 US	JANITORIAL CLEANING SERVICES	S	B		N	N	7		6,837,660	3,722,602	1,311,723	3,115,058	1/1/2016	O	12/31/2020	
4600003118	HAGERMAN & COMPANY INC 505 SUNSET CT - PO BOX 139 MT ZION, IL 62549-1522 US	BLUECIELO MERIDIAN CONSULTING SERVICES	P	B		F	N	2		1,000,000	129,289	0	870,711	2/5/2016	O	2/4/2019	

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4600003119	BAC ELECTRICAL CONSTRUCTION CO INC 648 COMMERCE ST THORNWOOD, NY 10594-1328 US	ELECTRICAL CONTRACTORS	C	B	8	N	N	3		500,000	250,017	79,525	249,983	1/1/2016	O	12/31/2020	
4600003120	BLUECIELO ECM SOLUTIONS INC 411 EAGLEVIEW BLVD STE 109 EXTON, PA 19341-1167 US	BLUECIELO MERIDIAN CONSULTING SERVICES	P	B		F	N	2		1,000,000	0	0	1,000,000	2/5/2016	O	2/4/2019	
4600003121	HEALY ELECTRIC CONTRACTING INC 4 FISHER LANE WHITE PLAINS, NY 10603 US	ELECTRICAL CONTRACTORS	C	B	8	N	N	3		700,000	489,948	279,816	210,052	1/1/2016	O	12/31/2020	
4600003122	CENTER FOR INTERNET SECURITY INC 31 TECH VALLEY DR EAST GREENBUSH, NY 12061-4134 US	CYBER SECURITY SERVICES	S	B		N	N	4		5,200,000	1,682,138	1,070,127	3,517,862	2/12/2016	O	3/6/2021	
4600003123	BETTE & CRING LLC 18438 US ROUTE 11 WATERTOWN, NY 13601-5699 US	EXPEDITED IMPLEMENTATION SERVICES	C	B		N	N	20		10,000,000	0	0	10,000,000	9/28/2015	O	9/28/2020	
4600003124	SMARTEDGE DBA FOR BUILDING CONTROLS&SERVICES 4 PEUQUET PKWY TONAWANDA, NY 14150-2413 US	EXPEDITED IMPLEMENTATION SERVICES	S	B		N	N	20		10,000,000	0	0	10,000,000	9/28/2015	O	9/28/2020	
4600003125	WILLDAN ENERGY SOLUTIONS INC 88 PINE ST - FL 18 NEW YORK, NY 10005 US	EXPEDITED IMPLEMENTATION SERVICES	C	B		F	N	20		10,000,000	0	0	10,000,000	9/28/2015	O	9/28/2020	
4600003127	PRES SERVICES LLC PRES ENERGY 95 STARK ST TONAWANDA, NY 14150-1210 US	EXPEDITED IMPLEMENTATION SERVICES	C	B		N	N	20		10,000,000	0	0	10,000,000	9/28/2015	O	9/28/2020	
4600003129	ENERACTIVE SOLUTIONS LLC 700 MATTISON AVE - STE A ASBURY PARK, NJ 07712-7021 US	EXPEDITED IMPLEMENTATION SERVICES	C	B		F	N	20		10,000,000	0	0	10,000,000	9/28/2015	O	9/28/2020	
4600003130	GENESYS ENGINEERING PC 629 FIFTH AVE - STE 111 PELHAM, NY 10803 US	EXPEDITED IMPLEMENTATION SERVICES	C	B		N	N	20		10,000,000	0	0	10,000,000	9/28/2015	O	9/28/2020	
4600003131	VEOLIA ES TECHNICAL SOLUTIONS LLC DBA FOR VEOLIA NORTH AMERICA INC 1275 MINERAL SPRINGS DR PORT WASHINGTON, WI 53074-2163 US	REMOVAL AND RECYCLING /DISPOSAL OF WATER AND ELECTRIC METERS	S	B		F	N	1		60,000	9,258	4,860	50,742	2/22/2016	O	12/31/2020	
4600003133	JOHN W DANFORTH CO 300 COLVIN WOODS PKWY TONAWANDA, NY 14150-6976 US	EXPEDITED IMPLEMENTATION SERVICES	C	B		N	N	20		10,000,000	1,494,845	1,494,845	8,505,155	9/28/2015	O	9/28/2020	
4600003134	NRG ENERGY INC 211 CARNEGIE CTR PRINCETON, NJ 08540-6299 US	EXPEDITED IMPLEMENTATION SERVICES	C	B		F	N	20		10,000,000	0	0	10,000,000	9/28/2015	O	9/28/2020	
4600003135	GOODMART LIGHTING AND ELECTRICAL SUPPLY 232 MADISON AVE FL 3 NEW YORK, NY 10016-2953 US	FURNISH AND DELIVER LIGHTING FIXTURES	E	B		N	N	3		5,000	0	0	5,000	2/23/2016	C		1/2/2018
4600003136	VAN NESS FELDMAN LLP 1050 THOMAS JEFFERSON ST NW WASHINGTON, DC 20007-3877 US	ENERGY LEGAL SERVICES	L	B		N	N	10		3,937,242	2,844,681	759,005	1,092,561	5/26/2015	O	5/25/2020	

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4600003137	GOODMART LIGHTING AND ELECTRICAL SUPPLY 232 MADISON AVE FL 3 NEW YORK, NY 10016-2953 US	F AND D LIGHTING FIXTURES	E	B		N	N	3		1,516,474	494,630	49,195	1,021,844	2/23/2016	O	2/21/2019	
4600003140	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	BGIS SUPPORT SERVICES	S	2	8	N	N	1		590,000	372,239	151,202	217,761	12/1/2015	O	11/30/2020	
4600003141	CUSTOMER CARE NETWORK INC 665 RIVER KNOLL DR SE MARIETTA, GA 30067-4748 US	MANAGEMENT CONSULTING SERVICES FOR THE EXECUTIVE OFFICE	P	B		F	N	21		6,174,578	5,549,718	2,361,017	624,860	4/1/2016	O	3/31/2019	
4600003142	PRICEWATERHOUSECOOPERS ADVIS SVC DBA FOR PWC HOLDING NO 21 LLC 300 MADISON AVE NEW YORK, NY 10017-6232 US	MANAGEMENT CONSULTING SERVICES FOR THE EXECUTIVE OFFICE	P	B		N	N	21		5,000	0	0	5,000	4/1/2016	O	3/31/2019	
4600003143	WENDEL ENERGY SERVICES LLC 375 ESSJAY RD - STE 200 WILLIAMSVILLE, NY 14221-5761 US	EXPEDITED IMPLEMENTATION SERVICES	C	B		N	N	20		10,000,000	381,732	381,732	9,618,268	9/28/2016	O	9/28/2020	
4600003144	TURBOPROP EAST INC 836 STATE RD NORTH ADAMS, MA 01247-3027 US	AIRCRAFT MAINTENANCE	S	B	8	N	N	3		2,500,000	1,877,979	86,757	622,021	4/1/2016	O	3/31/2021	
4600003145	RUSSELL REYNOLDS ASSOCIATES INC 200 PARK AVE NEW YORK, NY 10166-0002 US	EXECUTIVE RECRUITMENT SERVICES	P	C	1	N	N	7		685,780	667,465	163,562	18,315	3/30/2016	O	3/29/2019	
4600003146	POWER ENGINEERING INC 16632 MILLIKAN AVE - STE B IRVINE, CA 92606-5008 US	SPECIALTY FIELD SUPPORT SERVICES, TESTING, ANALYSIS AND ENGINEERING SERVICES AT NYPA HYDRO GENERATING FACILITIES	P	B		F	N	3		4,790,019	3,592,021	1,808,553	1,197,998	5/2/2016	O	5/1/2021	
4600003148	APTIM ENVIROMENTAL & INFRASTRUCTURE INC 13 BRITISH AMERICAN BLVD LATHAM, NY 12110-1431 US	ENVIRONMENTAL, HEALTH AND SAFETY AUDITS AT NYPA OPERATING FACILITIES	P	B		N	N	10		390,000	180,286	31,760	209,714	4/25/2016	O	4/24/2021	
4600003150	THE CHAZEN COMPANIES 21 FOX ST POUGHKEEPSIE, NY 12601-4724 US	ENVIRONMENTAL, HEALTH AND SAFETY AUDITS AT NYPA OPERATING FACILITIES	P	B		N	N	10		110,000	0	0	110,000	4/4/2016	O	4/24/2021	
4600003151	O'BRIEN & GERE ENGINEERS INC 333 W WASHINGTON ST - STE 610 SYRACUSE, NY 13202-9203 US	ENVIRONMENTAL, HEALTH AND SAFETY AUDITS AT NYPA OPERATING FACILITIES	P	B		N	N	10		250,000	0	0	250,000	4/4/2016	O	4/24/2021	
4600003152	PAUL C RIZZO ENGINEERING - NEW YORK PLLC 580 WHITE PLAINS RD - STE 4250 TARRYTOWN, NY 10591-5189 US	FERC PART 12 SAFETY INSPECTION FOR CRESCENT AND VISCHER FERRY HYDROELECTRIC PROJECTS	P	B		N	N	5		143,278	101,872	39,734	41,406	4/4/2016	O	4/9/2021	
4600003153	BUREAU VERITAS NORTH AMERICA INC 390 BENMAR DR - STE 100 HOUSTON, TX 77060-2922 US	ON-CALL QUALITY ASSURANCE ENGINEERING AND INSPECTION SERVICES	P	B		N	N	8		900,000	257,526	107,682	642,474	3/30/2016	O	4/4/2019	
4600003154	NPTS INC 2060 SHERIDAN DR BUFFALO, NY 14223-1470 US	ON-CALL QUALITY ASSURANCE ENGINEERING AND INSPECTION SERVICES	P	B		N	04	8		900,000	272,976	101,122	627,024	4/6/2015	O	4/5/2019	

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4600003155	HATCH ASSOCIATES CONSULTANTS INC 100 SYLVAN PKWY AMHERST, NY 14228-1146 US	ON-CALL QUALITY ASSURANCE ENGINEERING AND INSPECTION SERVICES	P	B		N	N	8		900,000	0	0	900,000	4/6/2015	O	4/5/2019	
4600003156	NAVIGANT CONSULTING INC 685 3RD AVE - FL 14 NEW YORK, NY 10017-4024 US	MANAGEMENT CONSULTING SERVICES FOR THE EXECUTIVE OFFICE	P	B		N	N	21		1,853,600	1,367,568	573,757	486,032	4/1/2016	O	3/31/2019	
4600003157	ERNST & YOUNG LLP 5 TIMES SQ NEW YORK, NY 10036-6540 US	MANAGEMENT CONSULTING SERVICES FOR THE EXECUTIVE OFFICE	P	B		N	N	21		6,875,020	4,623,888	4,623,888	2,251,132	4/5/2016	O	3/31/2019	
4600003158	PA CONSULTING GROUP INC 405 LEXINGTON AVE - FL 45 NEW YORK, NY 10174-0002 US	MANAGEMENT CONSULTING SERVICES FOR THE EXECUTIVE OFFICE	P	B		N	N	21		915,700	859,138	200,292	56,562	4/4/2016	O	3/31/2019	
4600003159	MCKINSEY & COMPANY INC WASHINGTON DC 1200 19TH ST NW STE 1100 WASHINGTON, DC 20036-2412 US	MANAGEMENT CONSULTING SERVICES FOR THE EXECUTIVE OFFICE	P	B		F	N	21		3,750,000	3,175,000	3,175,000	575,000	4/4/2016	O	3/31/2019	
4600003162	TEST PRODUCTS INC (TPI) 302 NEW MILL LN EXTON, PA 19341 US	BATTERY TESTING PROGRAM FOR ALL SITES	S	B		F	N	4		325,000	189,654	51,604	135,346	4/1/2016	O	3/31/2021	
4600003163	THE SEARCH PARTNERSHIP LLC LINDA M PAUL 1308 WASHINGTON VALLEY RD BRIDGEWATER, NJ 08807-1429 US	EXECUTIVE RECRUITMENT SERVICES	P	C	1	F	N	7		59,000	48,152	33,000	10,848	4/7/2016	O	3/31/2019	
4600003164	FIREFLY ENERGY CONSULTING LLC 4227 CALCULUS DR DALLAS, TX 75244-7314 US	MANAGEMENT CONSULTING SERVICES FOR THE EXECUTIVE OFFICE	P	B		N	03	21		5,000	0	0	5,000	4/1/2016	O	3/31/2019	
4600003165	KONECRANES INC 1020 LEHIGH STATION RD HENRIETTA, NY 14467-9369 US	OSHA ANNUAL CRANE INSPECTION/CERTIFICATION SERVICES	P	B		N	N	3		400,000	232,749	119,482	167,251	4/7/2016	O	4/6/2021	
4600003167	GILBERT TWEED ASSOCIATES INC 415 MADISON AVE NEW YORK, NY 10017-1111 US	EXECUTIVE RECRUITMENT SERVICES	P	C	1	N	N	7		5,000	0	0	5,000	4/12/2016	O	3/31/2019	
4600003168	ENERGEIAWORKS LLC PO BOX 567 ASBURY PARK, NJ 07712-0567 US	EXECUTIVE RECRUITMENT SERVICES	P	C	1	F	N	7		5,000	0	0	5,000	4/13/2016	O	3/31/2019	
4600003170	KORN/FERRY INTERNATIONAL 1900 AVENUE OF THE STARS - STE 2600 LOS ANGELES, CA 90067-4507 US	EXECUTIVE RECRUITMENT SERVICES	P	C	1	F	N	7		5,000	0	0	5,000	4/1/2016	O	3/31/2019	
4600003171	THE BURGESS GROUP - CORPORATE RECRUITERS INTERNATIONAL INC PO BOX 2224 - CHURCH ST STATION NEW YORK, NY 10101-2221 US	EXECUTIVE RECRUITMENT SERVICES	P	C	1	N	04	7		5,000	0	0	5,000	4/11/2016	O	3/31/2019	
4600003173	HITACHI MITSUBISHI HYDRO CORP TANACHI NIKKO 29-14 SHIBA 5-CHOME MINATO-KU TOKYO, 13 1080014 JP	HOME OFFICE ENGINEERING SERVICES	A	2	5	F	N	1		500,000	60,381	24,381	439,619	5/16/2016	O	3/31/2021	
4600003174	AECOM USA INC 125 BROAD ST NEW YORK, NY 10004-2400 US	EXPEDITED IMPLEMENTATION SERVICES	C	B		N	N	20		30,000,000	6,835,276	6,632,474	23,164,724	9/28/2015	O	9/28/2020	
4600003180	SIEMENS INDUSTRY INC 7000 SIEMENS RD WENDELL, NC 27591-8309 US	STL SAMAC SUPPORT	P	2	8	N	N	1		837,666	165,782	139,975	671,884	6/22/2016	O	6/21/2021	

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4600003181	INNOTAS 111 SUTTER ST - STE 300 SAN FRANCISCO, CA 94104-4508 US	CLOUD BASED PROJECT PORTFOLIO MANAGEMENT SOLUTION	S	B		F	N	9		500,000	93,420	0	406,580	7/1/2016	O	6/30/2021	
4600003182	ECLARO INTERNATIONAL INC 450 7TH AVE - STE 506 NEW YORK, NY 10123-0506 US	SAP TEMPORARY PROGRAMMING PERSONNEL	W	B	8	N	04	20		701,000	624,178	176,550	76,822	5/16/2016	C		12/31/2018
4600003185	JANUS SOFTWARE INC DBA JANUS ASSOCIATES 4 HIGH RIDGE PARK - STE 200 STAMFORD, CT 06905-1325 US	CYBER SECURITY CONSULTING SERVICES	P	B	8	F	N	40		400,000	29,871	0	370,129	7/20/2016	O	12/31/2020	
4600003189	AECOM USA INC 125 BROAD ST NEW YORK, NY 10004-2400 US	ON-CALL ENGINEERING SERVICES FOR TRANSMISSION AND SUBSTATION ASSETS	P	B		F	N	29		6,500,000	1,560,875	1,296,663	4,939,125	9/1/2016	O	8/31/2021	
4600003190	BURNS & MCDONNELL CONSULTANTS INC BURNS & MCDONNELL CONSULTANTS PC 9400 WARD PKWY KANSAS CITY, MO 64114-3319 US	ON-CALL ENGINEERING SERVICES FOR TRANSMISSION AND SUBSTATION ASSETS	P	B		F	N	29		5,000,000	0	0	5,000,000	9/1/2016	O	8/31/2021	
4600003191	CAI SERVICES P C PO BOX 1124 JACKSON, MI 49204-1124 US	ON-CALL ENGINEERING SERVICES FOR TRANSMISSION AND SUBSTATION ASSETS	P	B		F	N	29		4,250,000	0	0	4,250,000	9/1/2016	O	8/31/2021	
4600003192	SNC LTD 150 STATE ST - STE 120 ROCHESTER, NY 14614-1353 US	ON-CALL ENGINEERING SERVICES FOR TRANSMISSION AND SUBSTATION ASSETS	P	B		N	N	29		5,000,000	267,152	267,152	4,732,848	9/1/2016	O	8/31/2021	
4600003193	TRC ENGINEERS INC 215 GREENFIELD PKWY - STE 102 LIVERPOOL, NY 13088-6651 US	ON-CALL ENGINEERING SERVICES FOR TRANSMISSION AND SUBSTATION ASSETS	P	B		N	N	29		4,250,000	0	0	4,250,000	9/1/2016	O	8/31/2021	
4600003194	LECHASE CONSTRUCTION SERVICES LLC 1473 ERIE BLVD SCHENECTADY, NY 12305-1004 US	ON-CALL GENERAL CONTRACTING SERVICES	C	B	8	N	N	5		2,931,902	2,636,188	739,467	295,714	8/1/2016	C		12/31/2018
4600003195	PRESIDIO NETWORKED SOLUTIONS GROUP DBA FOR PRESIDIO HOLDINGS INC 30 STANFORD DR - STE 2 FARMINGTON, CT 06032-2453 US	CYBER SECURITY CONSULTING SERVICES	P	B	8	F	N	40		400,000	0	0	400,000	9/1/2016	O	12/31/2020	
4600003196	WSP USA CORP 512 7TH AVE NEW YORK, NY 10018-4603 US	A/E AND DESIGN SERVICES FOR AN EMERGENCY ENERGY CONTROL CENTER	A	B		N	N	12		741,817	624,388	106,583	117,429	8/18/2016	O	8/17/2019	
4600003200	NAUTILUS CONSULTING LLC 6800 JERICHO TPKE - STE 216E SYOSSET, NY 11791-4445 US	RISK MANAGEMENT CONSULTATION SERVICES	A	B		N	N	10		2,000,000	985,786	142,657	1,014,214	8/23/2016	O	8/22/2021	
4600003201	SIGNAL PERFECTION LTD SUBSIDIARY OF AVI-SPL INC 6301 BENJAMIN RD - STE 101 TAMPA, FL 33634-5115 US	NYPA CONFERENCE ROOM AV UPGRADE	H	B		F	N	3		3,000,000	1,336,196	705,325	1,663,804	9/1/2016	O	8/31/2019	
4600003202	VEOLIA ES TECHNICAL SOLUTIONS LLC DBA FOR VEOLIA NORTH AMERICA INC 1275 MINERAL SPRINGS DR PORT WASHINGTON, WI 53074-2163 US	BATTERIES, LIGHT BALLASTS AND LAMP RECYCLING/DISPOSAL	S	B		N	N	2		555,000	485,684	209,583	69,316	8/2/2017	O	9/30/2021	

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4600003203	MILLER ENVIRONMENTAL GROUP INC 538 EDWARDS AVE CALVERTON, NY 11933-1636 US	SENY GENERAL ENVIRONMENTAL SERVICES	S	B		N	N	4		300,000	65,109	44,140	234,891	10/1/2016	O	9/30/2021	
4600003204	WRS ENVIRONMENTAL SERVICES INC 17 OLD DOCK RD YAPHANK, NY 11980-9702 US	SENY GENERAL ENVIRONMENTAL SERVICES	S	B		N	N	4		1,000,000	405,002	221,838	594,998	10/1/2016	O	9/30/2021	
4600003206	ARCADIS US INC 655 3RD AVE - 12TH FL NEW YORK, NY 10017-5617 US	RISK MANAGEMENT CONSULTING SERVICES	P	B		N	N	10		2,000,000	33,637	30,059	1,966,363	9/7/2016	O	9/6/2021	
4600003207	HATCH ASSOCIATES CONSULTANTS INC 100 SYLVAN PKWY AMHERST, NY 14228-1146 US	RISK MANAGEMENT CONSULTING SERVICES	P	B		N	N	10		5,000	0	0	5,000	9/8/2016	O	9/7/2021	
4600003208	HILL INTERNATIONAL INC 1 COMMERCE SQ # 17 2005 MARKET ST PHILADELPHIA, PA 19103-1415 US	RISK MANAGEMENT CONSULTING SERVICES	P	B		F	N	10		2,000,000	699,670	149,134	1,300,330	9/13/2016	O	9/12/2021	
4600003209	NRC NY ENVIRONMENTAL SERVICES INC 6392 DEERE RD - STE 1 SYRACUSE, NY 13206-1323 US	SENY GENERAL ENVIRONMENTAL SERVICES	S	B		N	N	4		175,000	0	0	175,000	10/1/2016	O	9/30/2021	
4600003210	DATROSE 660 BASKET RD WEBSTER, NY 14580-9782 US	TEMPORARY STAFFING FOR NYPA WIDE SUPPORT	W	B		N	04	47		193,810	105,526	105,526	88,284	9/28/2016	O	9/27/2019	
4600003211	ECLARO INTERNATIONAL INC 450 7TH AVE - STE 506 NEW YORK, NY 10123-0506 US	TEMPORARY STAFFING FOR NYPA WIDE SUPPORT	W	B		N	04	47		1,611,000	607,238	555,142	1,003,762	9/28/2016	O	9/27/2019	
4600003212	ASR INTERNATIONAL CORP 580 OLD WILLETS PATH HAUPPAUGE, NY 11788-4106 US	TEMPORARY STAFFING FOR NYPA WIDE SUPPORT	W	B		N	N	47		410,423	251,385	86,850	159,038	9/28/2016	O	9/27/2019	
4600003213	INFINITY CONSULTING SOLUTIONS INC 462 7TH AVE - FL 2 NEW YORK, NY 10018-7847 US	TEMPORARY STAFFING FOR NYPA WIDE SUPPORT	W	B		N	N	47		5,000	0	0	5,000	9/28/2016	O	9/27/2019	
4600003214	KFORCE INC 1001 E PALM AVE TAMPA, FL 33605-3551 US	TEMPORARY STAFFING FOR NYPA WIDE SUPPORT	W	B		N	N	47		5,000	0	0	5,000	9/28/2016	O	9/27/2019	
4600003215	MINDLANCE INC 1095 MORRIS AVE - UNIT 101A UNION, NJ 07083-7143 US	TEMPORARY STAFFING FOR NYPA WIDE SUPPORT	W	B		F	N	47		2,200,000	1,377,240	672,007	822,760	9/28/2016	O	9/27/2019	
4600003216	REINHARD-MADISON APPROACH STAFFING DBA MADISON APPROACH STAFFING INC 45 KNOLLWOOD RD - STE 101 ELMSFORD, NY 10523-2806 US	TEMPORARY STAFFING FOR NYPA WIDE SUPPORT	W	B		N	03	47		1,140,000	621,333	312,753	518,667	9/28/2016	O	9/27/2019	
4600003217	LANCESOFT INC 13454 SUNRISE VALLEY DR - STE 120 HERNDON, VA 20171-3278 US	TEMPORARY STAFFING FOR NYPA WIDE SUPPORT	W	B		N	N	47		774,000	402,341	193,654	371,659	9/28/2016	O	9/27/2019	
4600003218	MONROE STAFFING SERVICES LLC PO BOX 187 MONROE, CT 06468-0187 US	TEMPORARY STAFFING FOR NYPA WIDE SUPPORT	W	B		F	N	47		2,000,000	1,002,165	653,349	997,835	9/28/2016	O	9/27/2019	

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4600003219	NEXUS STAFFING INC 99 TULIP AVE - STE 105 FLORAL PARK, NY 11001-1927 US	TEMPORARY STAFFING FOR NYPA WIDE SUPPORT	W	B		N	04	47		2,063,000	1,295,764	827,996	767,236	9/28/2016	O	9/27/2019	
4600003220	SOLOMON PAGE GROUP LLC 260 MADISON AVE - FL 3 NEW YORK, NY 10016-2401 US	TEMPORARY STAFFING FOR NYPA WIDE SUPPORT	W	B		N	N	47		26,461	15,278	15,278	11,183	9/28/2016	O	9/27/2019	
4600003221	TTI OF USA INC 150 BROADWAY - STE 1500 NEW YORK, NY 10038-4376 US	TEMPORARY STAFFING FOR NYPA WIDE SUPPORT	W	B		N	N	47		5,000	0	0	5,000	9/28/2016	O	9/27/2019	
4600003222	VTECH SOLUTION INC 1100 H ST NW - STE 450 WASHINGTON, DC 20005-5479 US	TEMPORARY STAFFING FOR NYPA WIDE SUPPORT	W	B		F	N	47		359,136	226,688	163,974	132,448	9/28/2016	O	9/27/2019	
4600003223	NATIONAL INSULATION & GC CORP 180 MILLER PL HICKSVILLE, NY 11801-1826 US	INSULATION FOR SENY	C	B		N	N	2		500,000	0	0	500,000	10/10/2016	O	10/9/2021	
4600003224	WISENGINEERING LLC 3159 SCHRADER RD DOVER, NJ 07801-5735 US	TEMPORARY STAFFING FOR NYPA WIDE SUPPORT	W	B		F	04	47		5,000	0	0	5,000	9/28/2016	O	9/27/2019	
4600003225	RFJ INSULATION CONTRACTOR INC 232-C ORINOCO DR BRIGHTWATERS, NY 11718 US	INSULATION FOR SENY	C	B		N	N	2		625,000	469,944	276,872	155,056	10/10/2016	O	10/9/2021	
4600003226	RANGAM CONSULTANTS INC 270 DAVIDSON AVE STE 103 SOMERSET, NJ 08873-4141 US	TEMPORARY STAFFING FOR NYPA WIDE SUPPORT	W	B		F	N	47		5,000	0	0	5,000	9/28/2016	O	9/27/2019	
4600003227	EV CONNECT INC 615 N NASH ST - STE 203 EL SEGUNDO, CA 90245-2851 US	SUPPLY, INSTALL, SERVICE, MAINTAIN AND WARRANTY OF EVSE EQUIPMENT	C	B		F	N	4		4,000,000	617,672	486,226	3,382,328	10/3/2016	O	10/2/2021	
4600003228	THREETECH ELECTRIC INC 7812 METROPOLITAN AVE MIDDLE VILLAGE, NY 11379-2965 US	INSTALLATION AND REMOVAL OF LIGHTING FIXTURES AT NYPA PROJECTS	E	B		N	04	3		562,500	47,682	20,834	514,818	11/1/2016	O	10/31/2020	
4600003229	MILLENNIUM MAINTENANCE & ELECTRICAL CONTRACTORS INC 64 FREEMAN ST BROOKLYN, NY 11222-1328 US	LIGHTING FIXTURE REMOVAL/INSTALLATION AT NYPA PROJECTS	E	B		N	04	3		562,500	11,676	11,676	550,824	11/1/2016	O	10/31/2020	
4600003231	PREDATOR PEST CONTROL INC 16042 83RD ST HOWARD BEACH, NY 11414-2945 US	PEST CONTROL SERVICES	S	B		N	N	7		175,000	32,275	16,402	142,725	10/14/2016	O	10/13/2021	
4600003232	TYNDALE CO DBA FOR TYNDALE ENTERPRISES INC 5050 APPLEBUTTER RD PIPERSVILLE, PA 18947-1808 US	FIRE RESISTANT CLOTHING FOR NYPA OPERATING PLANTS ON PURCHASE BASIS	E	B		F	N	6		750,000	520,338	148,192	229,662	11/1/2016	O	10/31/2021	
4600003233	AWS TRUEPOWER LLC 463 NEW KARNER RD ALBANY, NY 12205-3821 US	RENEWABLE WIND DEVELOPMENT ENGINEERING SUPPORT	A	B		N	N	14		500,000	100,328	48,728	399,672	11/1/2016	O	10/31/2021	
4600003234	ANGELA WOODS 139 VILLA AVE YONKERS, NY 10704-2319 US	COMPUTER DESIGN AND PRODUCTION SERVICES	P	B		N	N	10		25,000	0	0	25,000	12/1/2016	C		11/30/2018
4600003235	C2 MARKETING LLC CARA ZAMBRI 340 BROADWAY SCHENECTADY, NY 12305-2520 US	COMPUTER DESIGN AND PRODUCTION SERVICES	P	B		N	N	10		41,120	8,620	0	32,500	12/1/2016	O	11/30/2019	
4600003236	EILEEN BURTOFF 215 W 75TH ST - APT #11F NEW YORK, NY 10023-1713 US	COMPUTER DESIGN AND PRODUCTION SERVICES	P	B		N	N	10		25,000	1,908	0	23,092	12/1/2016	C		11/30/2018

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4600003237	THINKERSDESIGN STEPHANIE TOTHILL 328 COMMERCE ST HAWTHORNE, NY 10532-1958 US	COMPUTER DESIGN AND PRODUCTION SERVICES	P	B		N	03	10		35,510	5,701	4,434	29,809	12/1/2016	O	11/30/2019	
4600003238	ARTCONIC JOHNNY MARMOLEJOS 65 FORT WASHINGTON AVE - APT 57 NEW YORK, NY 10032-4635 US	COMPUTER DESIGN AND PRODUCTION SERVICES	P	B		N	04	10		5,000	0	0	5,000	12/1/2016	C		11/30/2018
4600003240	NRC NY ENVIRONMENTAL SERVICES INC 6392 DEERE RD - STE 1 SYRACUSE, NY 13206-1323 US	ON-CALL EMERGENCY SPILL RESPONSE, CLEAN-UP AND DISPOSAL SERVICES	S	B		N	N	7		646,771	96,532	92,002	550,239	1/1/2017	O	5/31/2019	
4600003252	BURNS & MCDONNELL CONSULTANTS INC BURNS & MCDONNELL CONSULTANTS PC 9400 WARD PKWY KANSAS CITY, MO 64114-3319 US	RENEWABLE WIND DEVELOPMENT ENGINEERING SUPPORT	P	B		F	N	14		500,000	0	0	500,000	1/2/2017	O	12/31/2021	
4600003253	DNV KEMA RENEWABLES INC 1400 RAVELLO RD KATY, TX 77449-5164 US	RENEWABLE WIND DEVELOPMENT ENGINEERING SUPPORT	P	B		F	N	14		500,000	0	0	500,000	1/2/2017	O	12/31/2021	
4600003254	MOTT MACDONALD NY INC 1400 BROADWAY - FL 30 NEW YORK, NY 10018-5330 US	RENEWABLE WIND DEVELOPMENT ENGINEERING SUPPORT	P	B		N	N	14		500,000	0	0	500,000	1/2/2017	O	12/31/2021	
4600003255	DELOITTE & TOUCHE LLP 4022 SELLS DR HERMITAGE, TN 37076-2903 US	CONSULTING SERVICES FOR RISK MANAGEMENT	P	B		N	N	13		2,436,228	1,276,989	517,580	1,159,239	1/1/2017	O	12/31/2021	
4600003256	ERNST & YOUNG LLP 5 TIMES SQ NEW YORK, NY 10036-6540 US	CONSULTING SERVICES FOR RISK MANAGEMENT	P	B		N	N	13		600,612	122,987	4,112	477,625	1/1/2017	O	12/31/2021	
4600003257	THE BRATTLE GROUP INC 44 BRATTLE ST CAMBRIDGE, MA 02138-3736 US	CONSULTING SERVICES FOR RISK MANAGEMENT	P	B		F	N	13		613,000	571,077	318,694	41,923	1/1/2017	O	12/31/2021	
4600003258	PA CONSULTING GROUP INC 405 LEXINGTON AVE - FL 45 NEW YORK, NY 10174-0002 US	CONSULTING SERVICES FOR RISK MANAGEMENT	P	B		N	N	13		54,350	39,736	27,466	14,614	1/1/2017	O	12/31/2021	
4600003259	PIVOTAL RISK ADVISORS INC 1200 SMITH ST - STE 1600 HOUSTON, TX 77002-4403 US	CONSULTING SERVICES FOR RISK MANAGEMENT	P	B		F	N	13		5,000	0	0	5,000	1/1/2017	O	12/31/2021	
4600003260	ESSENSE PARTNERS DBA AKASAKA ENTERPRISES 125 PARK AVE - FL 25 NEW YORK, NY 10017-5550 US	CHANGE MANAGEMENT AND CONSULTING SERVICES	P	B		N	04	15		1,500,000	1,045,819	710,463	454,181	12/22/2016	O	12/21/2021	
4600003261	AON RISK SERVICES NORTHEAST INC 199 WATER ST - FL 9 NEW YORK, NY 10038-3541 US	CONSULTING SERVICES FOR RISK MANAGEMENT	P	B		N	N	13		1,100,000	306,250	306,250	793,750	1/1/2017	O	12/31/2021	
4600003262	NAES CORP 13 READS WAY STE 100 NEW CASTLE, DE 19720-1609 US	SCPP PROVIDE OPERATIONS AND MAINTENANCE SERVICES	S	B		F	N	5		38,000,000	12,418,369	6,987,699	25,581,631	1/1/2017	O	12/31/2021	
4600003264	HUBBELL POWER SYSTEMS INC 210 N ALLEN ST CENTRALIA, MO 65240-1302 US	RFL OPERATIONS NETWORK EQUIPMENT	E	B	8	F	N	2		717,827	676,735	147,106	41,092	12/29/2016	C		12/3/2018
4600003266	DEVELOPMENT DIMENSIONS INTERNATIONAL INC 1225 WASHINGTON PIKE - STE 200 BRIDGEVILLE, PA 15017-2838 US	SKILLS ENHANCEMENT TRAINING	P	B	6	F	N	5		367,900	142,184	36,982	225,716	1/9/2017	O	1/8/2020	

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4600003267	LEWIS TREE SERVICE INC 300 LUCIUS GORDON DR W HENRIETTA, NY 14586 US	RIGHT OF WAY VEGETATION MANAGEMENT	S	B		N	N	6		11,000,000	5,283,402	2,881,102	5,716,598	1/12/2017	O	12/31/2020	
4600003269	CARLISI CONSULTING GROUP LLC CATHERINE J CARLISI PO BOX 503 GRANBY, CT 06035-0503 US	COACHING AND TRAINING SERVICES	P	C		F	N	2		200,000	58,685	10,450	141,315	2/1/2017	C		1/31/2018
4600003272	NETWORK MAPPING INC 6880 S MCCARRAN BLVD - STE 11 RENO, NV 89509-6129 US	LIDAR SURVEYING AND MAPPING SERVICES	A	B		F	N	7		2,000,000	377,157	228,587	1,622,843	2/7/2017	O	2/6/2021	
4600003273	ALLEN CHASE ENTERPRISES INC 24 COUNTY ROUTE 1A OSWEGO, NY 13126-5912 US	BARE GROUND WEED CONTROL PROJECT CLARK ENERGY CENTER	S	B		N	N	3		200,000	62,376	33,652	137,624	2/14/2017	O	2/13/2021	
4600003275	APOGEE TRANSLITE INC 593 ACORN ST DEER PARK, NY 11729-3617 US	FURNISH AND DELIVER MTA METRO NORTH: GRAND CENTRAL TERMINAL LED PLATFORM LIGHTING	E	B		N	N	6		2,582,294	0	0	2,582,294	3/13/2017	O	2/14/2020	
4600003277	ZINTER HANDLING INC 4313 ROUTE 50 SARATOGA SPRINGS, NY 12866-2914 US	ON-CALL CRANE, HOIST AND MONORAILS REPAIR SERVICES	S	2	8	N	01	1		100,000	4,080	0	95,920	3/2/2017	C		3/1/2018
4600003278	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	CRESCENT STOP LOG BEAM ASSEMBLY AND ON-CALL SHOP SERVICES	E	B	6	N	01	1		95,000	41,140	0	53,860	3/8/2017	C		1/22/2018
4600003279	NORTHEAST PROFESSIONAL ENGINEERING CONSULTANTS LLC 108 NEW PARK AVE - UNIT 3 N FRANKLIN, CT 06254-1807 US	ON-CALL CRANE AND HOIST CONSULTING SERVICES	P	B		N	N	5		2,750,000	0	0	2,750,000	3/16/2017	O	4/9/2022	
4600003280	STANTEC CONSULTING SERVICES INC 475 5TH AVE FL 12 NEW YORK, NY 10017-7239 US	ON-CALL CRANE AND HOIST CONSULTING SERVICES	P	B		N	N	5		2,750,000	326,867	326,867	2,423,133	4/10/2017	O	4/9/2022	
4600003281	DELTA ENGINEERS ARCHITECTS & LAND SURVEYORS DPC 4873 STATE ROUTE 5 VERNON, NY 13476-3530 US	ENGINEERING AND DESIGN SERVICES FOR POLLUTION PREVENTION PLAN	A	2	8	N	N	1		100,000	36,028	13,328	63,972	3/10/2017	O	3/10/2020	
4600003285	MICHAEL PAGE INTERNATIONAL INC 622 3RD AVE FL 29 NEW YORK, NY 10017-6716 US	PERMANENT STAFFING SEARCH SERVICES	S	B		N	N	35		42,000	19,800	19,800	22,200	4/1/2017	O	3/31/2022	
4600003286	FS CONSULTING LLC 6B TRIUMPH CT EAST RUTHERFORD, NJ 07073-1144 US	PERMANENT STAFFING SEARCH SERVICES	S	B		N	03	35		5,000	0	0	5,000	4/1/2017	O	3/31/2022	
4600003287	DATROSE 660 BASKET RD WEBSTER, NY 14580-9782 US	PERMANENT STAFFING SEARCH SERVICES	S	B		N	04	35		5,000	0	0	5,000	7/31/2017	O	3/31/2022	
4600003288	MONROE STAFFING SERVICES LLC PO BOX 187 MONROE, CT 06468-0187 US	PERMANENT STAFFING SEARCH SERVICES	S	B		F	N	35		51,000	51,000	0	0	4/1/2017	O	3/31/2022	
4600003289	BASE ONE TECHNOLOGIES INC 30 CHURCH ST STE 28 NEW ROCHELLE, NY 10801-6391 US	PERMANENT STAFFING SEARCH SERVICES	S	B		N	03	35		20,000	0	0	20,000	4/1/2017	O	3/31/2022	

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4600003290	VTECH SOLUTION INC 1100 H ST NW - STE 450 WASHINGTON, DC 20005-5479 US	PERMANENT STAFFING SEARCH SERVICES	S	B		F	N	35		30,600	30,600	30,600	0	4/1/2017	O	3/31/2022	
4600003291	INFINITY CONSULTING SOLUTIONS INC 462 7TH AVE - FL 2 NEW YORK, NY 10018-7847 US	PERMANENT STAFFING SEARCH SERVICES	S	B		N	N	35		5,000	0	0	5,000	4/1/2017	O	3/31/2022	
4600003292	SANFORD ROSE OPPORTUNITIES CTR INC DBA SANFORD ROSE ASSOC & TECH CTR 265 S MAIN ST STE 200 AKRON, OH 44308-1223 US	PERMANENT STAFFING SEARCH SERVICES	S	B		F	N	35		5,000	0	0	5,000	4/1/2017	O	3/31/2022	
4600003293	REINHARD-MADISON APPROACH STAFFING DBA MADISON APPROACH STAFFING INC 45 KNOLLWOOD RD - STE 101 ELMSFORD, NY 10523-2806 US	PERMANENT STAFFING SEARCH SERVICES	S	B		N	03	35		5,000	0	0	5,000	4/1/2017	O	3/31/2022	
4600003294	LANCESOFT INC 13454 SUNRISE VALLEY DR - STE 120 HERNDON, VA 20171-3278 US	PERMANENT STAFFING SEARCH SERVICES	S	B		F	N	35		17,000	16,200	16,200	800	4/1/2017	O	3/31/2022	
4600003295	NEXUS STAFFING INC 99 TULIP AVE - STE 105 FLORAL PARK, NY 11001-1927 US	PERMANENT STAFFING SEARCH SERVICES	S	B		N	04	35		19,000	14,000	14,000	5,000	4/1/2017	O	3/31/2022	
4600003296	KMQ ENTERPRISES INC DBA TAILWIND ASSOCIATES 1462 ERIE BLVD SCHENECTADY, NY 12305-1026 US	PERMANENT STAFFING SEARCH SERVICES	S	B		N	03	35		5,000	0	0	5,000	4/1/2017	O	3/31/2022	
4600003297	VACO BRIDGEWATER LLC 1140 US HIGHWAY 22 STE 302 BRIDGEWATER, NJ 08807-2958 US	PERMANENT STAFFING SEARCH SERVICES	S	B		F	N	35		5,000	0	0	5,000	4/1/2017	O	3/31/2022	
4600003298	CYNET SYSTEMS INC 43480 YUKON DR STE 202 ASHBURN, VA 20147-7332 US	PERMANENT STAFFING SEARCH SERVICES	S	B		F	N	35		5,000	0	0	5,000	4/1/2017	O	3/31/2022	
4600003299	GRIDPOINT INC 11951 FREEDOM DR STE 1366 RESTON, VA 20190-5686 US	NYEM DEEP SUB-METERING	S	B	8	F	N	15		20,000,000	1,126,811	982,823	18,873,189	5/3/2017	O	5/2/2022	
4600003300	LABELLA ASSOCIATES D P C 300 STATE ST - STE 201 ROCHESTER, NY 14614-1019 US	UTICA DISCOVERY CENTER PROJECT	A	B		N	N	12		800,000	630,327	483,285	169,673	4/3/2017	O	4/2/2020	
4600003301	TECTONIC ENGINEERING & SURVEYING CONSULTANTS PC 11835 QUEENS BLVD - STE 1000 FOREST HILLS, NY 11375-7200 US	ON-CALL TESTING AND INSPECTION SERVICES	P	B		N	N	11		342,000	2,039	863	339,961	5/30/2017	O	5/29/2020	
4600003302	ATLANTIC TESTING LABORATORIES LTD 6431 US HIGHWAY 11 - PO BOX 29 CANTON, NY 13617-3979 US	ON-CALL TESTING AND INSPECTION SERVICES	P	B		N	03	11		606,000	132,857	132,857	473,143	6/6/2017	O	6/5/2020	
4600003303	CME ASSOCIATES INC 403 E TAFT RD NORTH SYRACUSE, NY 13212-3734 US	ON-CALL TESTING AND INSPECTION SERVICES	P	B		N	03	11		342,000	0	0	342,000	6/23/2017	O	6/8/2020	

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4600003304	MUNICIPAL TESTING LABORATORY INC 375 RABRO DR - PO BOX 14124 HAUPPAUGE, NY 11788-4227 US	ON-CALL TESTING AND INSPECTION SERVICES	P	B		N	N	11		342,000	0	0	342,000	6/15/2017	O	6/14/2020	
4600003305	HAIDER ENGINEERING PC 91 TOLEDO ST FARMINGDALE, NY 11735-6620 US	ON-CALL TESTING AND INSPECTION SERVICES	P	B		N	04	11		342,000	0	0	342,000	6/23/2017	O	6/22/2020	
4600003306	ADVANCE TESTING CO INC PO BOX 15124 CAMPBELL HALL, NY 10916 US	ON-CALL TESTING AND INSPECTION SERVICES	P	B		N	N	11		342,000	0	0	342,000	6/23/2017	O	6/22/2020	
4600003307	ENCORUS GROUP ENGINEERING PC 23 MECHANIC ST - PO BOX 344 SPRINGVILLE, NY 14141-0344 US	ON-CALL TESTING AND INSPECTION SERVICES	P	B		N	02	11		342,000	43,653	17,997	298,347	6/23/2017	O	6/22/2020	
4600003308	ACE ELEVATOR INSPECTION CORP PO BOX 1046 N TONAWANDA, NY 14120-2915 US	ON-CALL TESTING AND INSPECTION SERVICES	P	B		N	N	11		342,000	0	0	342,000	6/26/2017	O	6/25/2020	
4600003310	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	CONSULTING SERVICES FOR THE PREPARATION OF THE FERC RELICENSING OF THE GREGORY B. JARVIS POWER PROJECT PHASE II	P	B		N	N	2		714,423	0	0	714,423	6/1/2017	C		1/2/2018
4600003311	SIMMERS CRANE DESIGN & SERVICES CO DBA FOR POLLOCK REASEARCH & DESIGN 1134 SALEM PKWY SALEM, OH 44460-1063 US	CRANE AND HOIST ON-CALL MAINTENANCE AND REPAIR SERVICES	S	B		F	N	4		2,750,000	428,276	325,211	2,321,724	5/3/2017	O	5/2/2022	
4600003312	PIEDMONT HOIST & CRANE INC #345 789 PRE-EMPTION RD - PO BOX 41 GENEVA, NY 14456-2069 US	CRANE AND HOIST ON-CALL MAINTENANCE AND REPAIR SERVICES	S	B		N	N	4		2,750,000	0	0	2,750,000	5/3/2017	O	5/2/2022	
4600003314	PLANVIEW DELAWARE LLC 12301 RESEARCH BLVD STE 101 BLDG V AUSTIN, TX 78759-2369 US	CLOUD BASED PROJECT PORTFOLIO MANAGEMENT SOLUTION	S	B		F	N	9		406,580	153,070	75,660	253,510	5/15/2017	O	6/30/2021	
4600003316	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	VEGETATION INVENTORY SERVICES FOR THE BLENHEIM GILBOA PROJECT	P	B		N	N	6		1,500,000	373,896	222,091	1,126,104	6/1/2017	O	5/31/2021	
4600003319	COGNIZANT TECHNOLOGY SOLUTIONS U S CORP 211 QUALITY CIR COLLEGE STATION, TX 77845-4470 US	IT CO SOURCING SERVICES	P	B		F	N	39		5,000,000	693,366	693,366	4,306,634	6/7/2017	O	6/6/2022	
4600003320	ERNST & YOUNG LLP 5 TIMES SQ NEW YORK, NY 10036-6540 US	IT CO SOURCING SERVICES	P	B		N	N	39		5,000,000	969,341	969,341	4,030,659	6/14/2017	O	7/2/2022	
4600003321	DELOITTE CONSULTING LLP 30 ROCKEFLLER PLAZA NEW YORK, NY 10112-0015 US	IT CO-SOURCING SERVICES	P	B		N	N	39		5,000,000	1,498,224	182,512	3,501,776	6/14/2017	O	6/20/2022	
4600003322	BERNIER CARR & ASSOCIATES ENGINEERS ARCHITECTS AND LAND SURVEYORS PC 327 MULLIN ST WATERTOWN, NY 13601-3686 US	CONSTRUCTION, MANAGEMENT, INSPECTION AND DESIGN SERVICES FOR ENVIRONMENTAL, RECREATIONAL AND SHORELINE IMPROVEMENTS AT STL	P	B		N	N	1		410,000	319,324	206,151	90,676	7/1/2017	O	6/30/2022	

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4600003326	CONDUENT INCORPORATED CONDUENT HR CONSULTING LLC 420 LEXINGTON AVE RM 2220 NEW YORK, NY 10017-2220 US	BENEFITS CONSULTING SERVICES	P	B		N	N	7		660,119	223,777	210,824	436,342	7/6/2017	C		12/15/2018
4600003327	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	DFR/PMU NETWORK EQUIPMENT	H	B	7	N	04	3		522,841	522,841	135,184	0	7/17/2017	O	7/16/2019	
4600003328	HADLEY EXHIBITS INC 1700 ELMWOOD AVE BUFFALO, NY 14207-2408 US	3 YEAR. NIAGARA VISITOR CENTER MAINTENANCE AGREEMENT	S	2	8	N	N	1		448,167	273,621	238,044	174,546	1/1/2017	O	12/31/2019	
4600003329	UTILITY SYSTEMS INC DBA FOR MAGNETIC INSTRUMENTATION 8431 CASTLEWOOD DR INDIANAPOLIS, IN 46250-1534 US	DFR/PMU EQUIPMENT	E	B	8	N	N	1		865,870	823,679	776,404	42,191	7/24/2017	O	7/23/2022	
4600003334	JGB ENTERPRISES INC 115 METROPOLITAN DR - PO BOX 209 LIVERPOOL, NY 13088-9000 US	FURNISH AND DELIVER AIR COMPRESSOR MOTORS FOR NEW YORK CITY TRANSIT'S SIGNAL DEPARTMENT	E	B		N	N	4		475,678	253,660	253,660	222,018	8/4/2017	O	8/4/2019	
4600003335	ACADIA ENERGY CORPORATION #1A 2765 BUFFALO RD ROCHESTER, NY 14624-1319 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		N	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003336	ADVANCED MICROGRID SOLUTIONS INC STE 200 25 STILLMAN STREET SAN FRANCISCO, CA 94107-1379 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003337	AMERESCO INC 111 SPEEN ST STE 410 FRAMINGHAM, MA 01701-2090 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003338	BURNS & MCDONNELL CONSULTANTS INC BURNS & MCDONNELL CONSULTANTS PC 9400 WARD PKWY KANSAS CITY, MO 64114-3319 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003339	CONTI ENTERPRISES INC 2045 LINCOLN HIGHWAY EDISON, NJ 08817-3334 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003340	DCO ENERGY LLC 5429 HARDING HWY BLDG 500 MAYS LANDING, NJ 08330-2264 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		5,000	0	0	5,000	9/1/2017	C		1/1/2018
4600003341	DEMAND ENERGY NETWORKS INC 24001 E MISSION AVE STE 102 LIBERTY LAKE, WA 99019-0685 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003342	DYNAMIC US INC 2900 WESTCHESTER AVE STE 207 PURCHASE, NY 10577-2551 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003343	EDF RENEWABLES DISTRIBUTED SOLUTIONS INC 5 COMMERCE AVE WEST LEBANON, NH 03784-1675 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		N	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003344	HESP SOLAR LLC STE 160 400 RELLA BLVD SUFFERN, NY 10901-8113 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		N	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	

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4600003345	HITACHI AMERICA LTD 50 PROSPECT AVE TARRYTOWN, NY 10591-4625 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		N	N	29		5,000	0	0	5,000	9/1/2017	C		1/1/2018
4600003346	J R CONKEY & ASSOCIATES INC SOLAR POWER INTEGRATORS 735 SUNRISE AVE STE 200 ROSEVILLE, CA 95661-4596 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003347	LABELLA ASSOCIATES D P C 300 STATE ST - STE 201 ROCHESTER, NY 14614-1019 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		N	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003348	LOCKHEED MARTIN CORPORATION 1701 W. MARSHALL DRIVE GRAND PRAIRIE, TX 75051-2704 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003349	MOOSE POWER INC 307-304 DUPONT ST TORONTO, ON M5R 1V9 CA	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003350	NAMASTE SOLAR ELECTRIC INC DBA NAMASTE SOLAR 122 MAIN STREET NEW PALTZ, NY 12561-1525 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		N	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003351	RDS INDUSTRIES INC 4301 162ND ST FLUSHING, NY 11358-3107 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		N	04	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003352	SMARTEDGE DBA FOR BUILDING CONTROLS&SERVICES 4 PEUQUET PKWY TONAWANDA, NY 14150-2413 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		N	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003353	SOL SYSTEMS LLC LOWR 2 1101 CONNECTICUT AVE NW WASHINGTON, DC 20036-4330 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003354	SOLAR LIBERTY ENERGY SYSTEMS INC 6500 SHERIDAN DR - STE 120 BUFFALO, NY 14221-4845 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		N	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003355	SOLARCITY CORP TESLA ENERGY 3055 CLEARVIEW WAY SAN MATEO, CA 94402-3709 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003356	STEM INC 100 ROLLINS ROAD MILLBRAE, CA 94030-3115 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003357	THE RYAN COMPANY INC STE 1200 5445 DTC PARKWAY GREENWOOD VILLAGE, CO 80111-3090 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003358	UGE USA INC STE 1103 330 W 38TH STREET NEW YORK, NY 10018-8446 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		N	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003359	VIRIDITY ENERGY SOLUTIONS INC 1801 MARKET ST PHILADELPHIA, PA 19103-1628 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	
4600003361	DIRECT ENERGY BUSINESS MARKETING LLC 194 WOOD AVE S - FL 2 ISELIN, NJ 08830-2710 US	DISTRIBUTED ENERGY PROJECTS AT THE AUTHORITY'S CUSTOMER FACILITIES	S	B		F	N	29		10,000,000	0	0	10,000,000	9/1/2017	O	8/31/2022	

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4600003363	CORE ENVIRONMENTAL CONSULTANTS INC 2312 WEHRLE DR BUFFALO, NY 14221-7021 US	PROVIDE SAMPLINGS AND ANALYSIS FOR THE AUTHORITY'S SENY SITES	S	B		N	03	2		300,000	89,540	89,540	210,460	10/1/2017	O	9/30/2022	
4600003364	BLACK & VEATCH NEW YORK LLP 11401 LAMAR AVE OVERLAND PARK, KS 66211-1508 US	RENEWABLE SOLAR DEVELOPMENT ENGINEERING SUPPORT	P	B		N	N	16		500,000	10,284	10,036	489,716	8/31/2017	O	8/30/2022	
4600003365	BURNS & MCDONNELL CONSULTANTS INC BURNS & MCDONNELL CONSULTANTS PC 9400 WARD PKWY KANSAS CITY, MO 64114-3319 US	RENEWABLE SOLAR DEVELOPMENT ENGINEERING SUPPORT	P	B		F	N	16		500,000	0	0	500,000	12/15/2017	O	8/30/2022	
4600003366	DNV KEMA RENEWABLES INC 1400 RAVELLO RD KATY, TX 77449-5164 US	RENEWABLE SOLAR DEVELOPMENT ENGINEERING SUPPORT	P	B		F	N	16		500,000	16,700	16,700	483,300	11/13/2017	O	8/30/2022	
4600003367	CORPORATE COUNSELING ASSOCIATES INC 475 PARK AVE S - FL 8 NEW YORK, NY 10016 US	EMPLOYEE ASSISTANCE PROGRAM SERVICES FOR NYPA AND CANALS EMPLOYEES	P	B		N	N	4		250,000	51,750	44,100	198,250	9/1/2017	O	8/31/2022	
4600003372	RTDS TECHNOLOGIES INC 100-150 INNOVATION DR WINNIPEG, MB R3T 2E1 CA	FURNISH, DELIVER, INSTALL, AND COMMISSION SIMULATORS FOR AGILE THAT WOULD PROVIDE MVSS AND ALLOW FOR FUTURE EXPANSION	E	B		F	N	2		4,000,000	1,543,800	1,543,800	2,456,200	9/11/2017	O	9/10/2022	
4600003373	OPAL-RT TECHNOLOGIES INC 1751 RICHARDSON - STE 2525 MONTREAL, QC H3K 1G6 CA	FURNISH, DELIVER, INSTALL, AND COMMISSION SIMULATORS FOR AGILE THAT WOULD PROVIDE MVSS AND ALLOW FOR FUTURE EXPANSION	E	B		F	N	2		4,000,000	1,063,003	1,063,003	2,936,997	9/29/2017	O	9/28/2022	
4600003374	GENERAL ELECTRIC INTERNATIONAL INC 475 CREAMERY WAY EXTON, PA 19341-2546 US	500MW LONG TERM SERVICE AND EXTENDED PARTS AGREEMENT	M	B		F	N	3		131,000,000	12,438,614	12,438,614	118,561,386	9/27/2017	O	9/27/2041	
4600003376	KJR CONSULTING LLC 1239 EDGELL RD STE LL FRAMINGHAM, MA 01701-3064 US	TRAINING SERVICES - MANAGE EXECUTION AND EXECUTE	P	B		F	N	11		103,000	38,804	38,804	64,196	10/12/2017	O	10/11/2020	
4600003377	MOTT MACDONALD NY INC 1400 BROADWAY - FL 30 NEW YORK, NY 10018-5330 US	ON-CALL ENGINEERING SERVICES	A	B		N	N	17		400,000	296,836	276,336	103,164	10/4/2017	O	12/31/2019	
4600003379	RESA POWER LLC 40 OLIVER TERR - PO BOX 619 SHELTON, CT 06484-0343 US	SENY: BREAKER MAINTENANCE AND REPAIR CONTRACT	S	B		F	N	3		2,500,000	737,167	737,167	1,762,833	11/20/2017	O	11/19/2022	
4600003380	LONGO ELECTRICAL MECHANICAL INC 1 HARRY SHUPE BLVD WHARTON, NJ 07885-1646 US	SENY: BREAKER MAINTENANCE AND REPAIR CONTRACT	S	B		F	N	3		2,500,000	5,946	5,946	2,494,054	11/1/2017	O	10/31/2022	
4600003381	MIND GYM USA INC 9 E 37TH ST 6TH FL NEW YORK, NY 10016-2822 US	TRAINING SERVICES - MANAGE EXECUTION AND EXECUTE	P	B		N	N	11		105,000	9,800	9,800	95,200	10/12/2017	O	10/11/2020	
4600003382	DEVELOPMENT DIMENSIONS INTERNATIONAL INC 1225 WASHINGTON PIKE - STE 200 BRIDGEVILLE, PA 15017-2838 US	TRAINING SERVICES - MANAGE EXECUTION AND EXECUTE	P	B		F	N	11		103,000	0	0	103,000	10/12/2017	O	10/11/2020	
4600003383	KJR CONSULTING LLC 1239 EDGELL RD STE LL FRAMINGHAM, MA 01701-3064 US	BUILD TALENT AND LEARN	P	B		F	N	15		142,600	20,648	20,648	121,952	11/1/2017	O	10/31/2020	

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4600003384	R G VANDERWEIL ENGINEERS PC 274 SUMMER ST BOSTON, MA 02210-1136 US	DESIGN SERVICES FOR UNIVERSITY OF ALBANY COMBINED HEAT AND POWER PROJECT (CHP)	P	B		F	N	8		1,800,000	188,384	188,384	1,611,616	12/13/2017	O	12/13/2019	
4600003385	MIND GYM USA INC 9 E 37TH ST 6TH FL NEW YORK, NY 10016-2822 US	BUILD TALENT AND LEARN	P	B		N	N	15		50,000	33,965	33,965	16,035	11/1/2017	O	10/31/2020	
4600003386	DEVELOPMENT DIMENSIONS INTERNATIONAL INC 1225 WASHINGTON PIKE - STE 200 BRIDGEVILLE, PA 15017-2838 US	BUILD TALENT AND LEARN	P	B		F	N	15		103,000	0	0	103,000	11/1/2017	O	10/31/2020	
4600003387	GENERAL ELECTRIC INTERNATIONAL INC 4200 WILDWOOD PKWY ATLANTA, GA 30339 US	DIGITAL UTILITY STRATEGIC PARTNERSHIP FOR MANAGEMENT CONSULTING TECHNOLOGY EXECUTION, ISOC AND NYEM SUPPORT AND TRAINING	P	B		F	N	28		11,230,000	545,799	545,799	10,684,201	12/22/2017	O	10/31/2022	
4600003388	PA CONSULTING GROUP INC 405 LEXINGTON AVE - FL 45 NEW YORK, NY 10174-0002 US	DIGITAL UTILITY STRATEGIC PARTNERSHIP FOR MANAGEMENT CONSULTING TECHNOLOGY EXECUTION, ISOC AND NYEM SUPPORT AND TRAINING	P	B		N	N	28		1,044,071	935,738	935,738	108,333	11/1/2017	O	10/31/2022	
4600003389	INDIGO ADVISORY GROUP LLC DBA FOR DAVID GROARKE 6537 MAURICE AVE APT 1 WOODSIDE, NY 11377-5801 US	DIGITAL UTILITY STRATEGIC PARTNERSHIP FOR MANAGEMENT CONSULTING TECHNOLOGY EXECUTION, ISOC AND NYEM SUPPORT AND TRAINING	P	B		N	N	28		557,570	249,038	249,038	308,532	11/1/2017	O	10/31/2022	
4600003391	GP STRATEGIES CORP 11000 BROKEN LAND PKWY STE 200 COLUMBIA, MD 21044-3555 US	DIGITAL UTILITY STRATEGIC PARTNERSHIP FOR MANAGEMENT CONSULTING TECHNOLOGY EXECUTION, ISOC AND NYEM SUPPORT AND TRAINING	P	B		F	N	28		1,804,488	0	0	1,804,488	11/1/2017	O	10/31/2022	
4600003392	MARS DISCOVERY DISTRICT 101 COLLEGE ST - STE 401 TORONTO, ON M5G 1L7 CA	DIGITAL UTILITY STRATEGIC PARTNERSHIP FOR MANAGEMENT CONSULTING TECHNOLOGY EXECUTION, ISOC AND NYEM SUPPORT AND TRAINING	P	B		F	N	28		290,000	5,000	5,000	285,000	11/1/2017	O	10/31/2022	
4600003393	KJR CONSULTING LLC 1239 EDGELL RD STE LL FRAMINGHAM, MA 01701-3064 US	ENERGIZE THE ORGANIZATION, COMMUNICATE AND COLLABORATE	P	B		F	N	15		50,000	0	0	50,000	11/1/2017	O	10/31/2020	
4600003394	DEVELOPMENT DIMENSIONS INTERNATIONAL INC 1225 WASHINGTON PIKE - STE 200 BRIDGEVILLE, PA 15017-2838 US	ENERGIZE THE ORGANIZATION, COMMUNICATE AND COLLABORATE	P	B		F	N	15		50,000	0	0	50,000	11/1/2017	O	10/31/2020	
4600003395	MIND GYM USA INC 9 E 37TH ST 6TH FL NEW YORK, NY 10016-2822 US	ENERGIZE THE ORGANIZATION, COMMUNICATE AND COLLABORATE	P	B		N	N	15		50,000	8,758	8,758	41,242	11/1/2017	O	10/31/2020	
4600003396	CAITLIN DRAGO INSPIRE IMPROV AND COACHING 1809 WAYNEPORT RD MACEDON, NY 14502-9112 US	ENERGIZE THE ORGANIZATION, COMMUNICATE AND COLLABORATE	P	B		N	03	15		50,000	7,000	7,000	43,000	11/1/2017	O	10/31/2020	
4600003397	IGNITION COACHING LLC DBA FOR KULVINDER KAUR JASWAL PO BOX 634 RYE, NY 10580-0634 US	ENERGIZE THE ORGANIZATION, COMMUNICATE AND COLLABORATE	P	B		N	N	15		50,000	29,960	29,960	20,040	11/1/2017	O	10/31/2020	

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4600003398	DALE CARNEGIE & ASSOCIATES INC NYC 780 3RD AVE BSMT C1 NEW YORK, NY 10017-2043 US	ENERGIZE THE ORGANIZATION, COMMUNICATE AND COLLABORATE	P	B		N	N	15		61,000	13,468	13,468	47,532	2/1/2018	O	1/31/2021	
4600003399	TURNER AND TOWNSEND INC 11 EAST 26TH ST FL 5 NEW YORK, NY 10010 US	ASSET MANAGEMENT SUPPORT SERVICES	P	B		N	N	9		3,000,000	1,074,930	1,074,930	1,925,070	11/1/2017	O	10/31/2022	
4600003400	WSP USA INC ONE PENN PLZ - FL 2 NEW YORK, NY 10119-0021 US	ASSET MANAGEMENT SUPPORT SERVICES	P	B		N	N	9		3,000,000	0	0	3,000,000	11/1/2017	O	10/31/2022	
4600003401	DELOITTE & TOUCHE LLP 4022 SELLS DR HERMITAGE, TN 37076-2903 US	ASSET MANAGEMENT SUPPORT SERVICES	P	B		F	N	9		3,000,000	0	0	3,000,000	11/1/2017	O	10/31/2022	
4600003403	ERNST & YOUNG LLP 5 TIMES SQ NEW YORK, NY 10036-6540 US	ASSET MANAGEMENT SUPPORT SERVICES	P	B		N	N	9		3,000,000	0	0	3,000,000	12/20/2017	O	10/31/2022	
4600003404	ROYAL DIAMOND CONSTRUCTION CORP 1 HIGHLAND DR CORTLANDT MANOR, NY 10567-2609 US	ON-CALL GENERAL CONTRACTING SERVICES	C	B		N	03	3		3,000,000	319,635	319,635	2,680,365	12/1/2017	O	11/30/2022	
4600003405	IEM ENERGY CONSULTANTS LLC 5200 BIRCHWOOD CT NW ALEXANDRIA, MN 56308-8071 US	CONSULTING SERVICES	P	2		F	N	1		550,000	53,764	46,663	496,236	11/14/2017	O	11/22/2020	
4600003407	LECHASE CONSTRUCTION SERVICES LLC 1473 ERIE BLVD SCHENECTADY, NY 12305-1004 US	ON-CALL GENERAL CONTRACTING SERVICES	C	B		N	N	3		3,000,000	32,038	32,038	2,967,962	12/1/2017	O	11/30/2022	
4600003408	SCULLY CONSTRUCTION LLC 141 LAFAYETTE AVE WHITE PLAINS, NY 10603 US	ON-CALL GENERAL CONTRACTING SERVICES	C	B		N	N	3		3,000,000	1,624,534	1,624,534	1,375,466	12/1/2017	O	11/30/2022	
4600003410	HYDRO TECH INC 65 INDUSTRIAL COURT B SAULT STE MARIE, ON P6B 5Z9 CA	JARVIS HYDROELECTRIC PROJECT UNIT 1 LIFE EXTENSION MODIFICATIONS	C	B		F	N	1		669,261	641,138	641,138	28,123	11/17/2017	C		11/16/2018
4600003411	TITAN ROOFING INC 200 TAPLEY ST SPRINGFIELD, MA 01104-2827 US	CRESCENT AND VISCHER FERRY BUILDINGS ROOF REPLACEMENT PROJECT	C	B		F	04	2		579,000	328,000	328,000	251,000	11/21/2017	C		11/20/2018
4600003412	MIRATECH KNOXVILLE LLC 1729 LOUISVILLE DR KNOXVILLE, TN 37921 US	SCPP CO CATALYST WASH AND REFURBISHMENT	S	B		F	N	3		2,000,000	814	814	1,999,186	12/15/2017	O	12/14/2022	
4600003413	TALISEN TECHNOLOGIES INC 12655 OLIVE BLVD - STE 500 SAINT LOUIS, MO 63141-6362 US	DIGITAL UTILITY STRATEGIC PARTNERSHIP FOR MANAGEMENT CONSULTING TECHNOLOGY EXECUTION, ISOC AND NYEM SUPPORT AND TRAINING	P	B		N	04	28		1,804,488	106,446	106,446	1,698,042	12/8/2017	O	10/31/2022	
4600003414	WSP USA CORP DBA WSP SELLS 1 COLUMBIA CIR ALBANY, NY 12203-6383 US	PHOTOGRAMMETRIC SERVICES NEW YORK STATEWIDE	P	B		N	N	2		2,000,000	0	0	2,000,000	1/23/2018	O	1/22/2023	
4600003415	FISHER ASSOCIATES PE LS LA DPC 180 CHARLOTTE ST ROCHESTER, NY 14607-1331 US	REGIONAL SURVEYING AND MAPPING SERVICES NEW YORK STATEWIDE	P	B		N	N	19		3,166,667	181,868	181,868	2,984,799	12/19/2017	O	12/18/2022	

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4600003417	CT MALE ASSOC ENGINEERING SURVEY ARCHITECT & LANDSCAPE ARCHITECT DPC 50 CENTURY HILL DR LATHAM, NY 12110-0727 US	REGIONAL SURVEYING AND MAPPING SERVICES NEW YORK STATEWIDE	P	B		N	N	19		3,166,667	374,819	374,819	2,791,848	12/19/2017	O	12/18/2022	
4600003419	ADIRONDACK ENVIRONMENTAL SERVICES I 314 N PEARL ST ALBANY, NY 12207 US	ON-CALL ENVIRONMENTAL TESTING SERVICES	S	2	8	N	01	1		100,000	10,898	10,898	89,102	12/18/2017	C		12/17/2018
4600003420	GEOD CORP 24 KANOUSE ROAD NEWFOUNDLAND, NJ 07435-1510 US	REGIONAL SURVEYING AND MAPPING SERVICES NEW YORK STATEWIDE	A	B		N	N	19		3,166,667	32,912	32,912	3,133,755	12/12/2017	O	12/11/2022	
4600003421	GOODMART LIGHTING AND ELECTRICAL SUPPLY 232 MADISON AVE FL 3 NEW YORK, NY 10016-2953 US	ENERGY EFFICIENCY LIGHTING	E	B		N	N	8		7,000,000	12,659	12,659	6,987,341	12/18/2017	O	12/17/2019	
4600003423	AECOM USA INC 125 BROAD ST NEW YORK, NY 10004-2400 US	PROGRAM PROJECT MANAGEMENT	A	B		N	N	14		17,500,000	3,351,639	3,351,639	14,148,361	12/19/2017	O	12/31/2022	
4600003424	HB COMMUNICATIONS INC 60 DODGE AVE NORTH HAVEN, CT 06473-1124 US	POLYCOM EQUIPMENT MAINTENANCE SERVICES	S	B		N	N	3		768,435	516,102	516,102	252,333	1/1/2018	O	12/31/2020	
4600003425	K & L ENGINEERING CONSULTING PC DBA FOR PURNA KHAREL 445 HAMILTON AVE STE 406 WHITE PLAINS, NY 10601-1825 US	PROGRAM PROJECT MANAGEMENT	A	B		N	04	14		17,499,999	3,972,802	3,972,802	13,527,197	1/1/2018	O	12/31/2022	
4600003426	CHA CONSULTING INC III WINNERS CIRCLE ALBANY, NY 12205-0269 US	PROGRAM PROJECT MANAGEMENT	A	B		F	N	14		5,000,001	0	0	5,000,001	12/19/2017	O	12/31/2022	
4600003427	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI 1 GUSTAVE L LEVY PL # 1057 NEW YORK, NY 10029-6504 US	OCCUPATIONAL HEALTH AND MEDICAL CONSULTATION SERVICES	P	B		N	N	2		455,875	0	0	455,875	12/19/2017	O	12/31/2022	
4600003428	UNLIMITED TECHNOLOGY INC 20 SENN DR CHESTER SPRINGS, PA 19425-9539 US	SECURITY MAINTENANCE SERVICES - MULTIPLE SITES	S	B		N	N	4		1,750,000	339,825	339,825	1,410,175	1/1/2018	O	12/31/2022	
4600003429	HKA GLOBAL INC 2005 MARKET ST STE 820 PHILADELPHIA, PA 19103-7005 US	RISK MANAGEMENT CONSULTING SERVICES	P	B		F	N	10		1,000,000	172,122	172,122	827,878	12/26/2017	O	9/12/2021	
4600003430	NORTHEAST PROFESSIONAL ENGINEERING CONSULTANTS LLC 108 NEW PARK AVE - UNIT 3 N FRANKLIN, CT 06254-1807 US	ON-CALL CRANE TECHNICAL CONSULTING SERVICES FOR NYPA'S CENTRAL SENY AREAS AND TRANSMISSION DIVISION	A	B		F	N	4		2,750,000	0	0	2,750,000	1/2/2018	O	12/31/2022	
4600003431	STANTEC CONSULTING SERVICES INC 475 5TH AVE FL 12 NEW YORK, NY 10017-7239 US	ON-CALL CRANE TECHNICAL CONSULTING SERVICES FOR NYPA'S CENTRAL, SENY AREAS AND TRANSMISSION DIVISION	A	B		N	N	4		2,750,000	0	0	2,750,000	1/2/2018	O	12/31/2022	
4600003432	HONEYWELL INTERNATIONAL INC 14 COLUMBIA CIRCLE STE 103 ALBANY, NY 12203-5162 US	ENERGY SAVINGS PERFORMANCE CONTRACTING	E	B		N	N	30		24,000,000	0	0	24,000,000	2/15/2018	O	2/14/2023	

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4600003433	JOHNSON CONTROLS INC 507 E MICHIGAN ST - MAILSTOP M-16 MILWAUKEE, WI 53202-5211 US	ENERGY SAVINGS PERFORMANCE CONTRACTING	C	B		F	N	30		22,000,000	0	0	22,000,000	2/15/2018	O	2/14/2023	
4600003435	GENESYS ENGINEERING PC 629 FIFTH AVE - STE 111 PELHAM, NY 10803 US	ENERGY SAVINGS PERFORMANCE CONTRACTING	C	B		N	N	30		22,000,000	0	0	22,000,000	2/15/2018	O	2/14/2023	
4600003436	SIEMENS INDUSTRY INC 10900 WAYZATA BLVD - STE 400 MINNETONKA, MN 55305-5602 US	ENERGY SAVINGS PERFORMANCE CONTRACTING	C	B		F	N	30		22,000,000	0	0	22,000,000	2/15/2018	O	2/14/2023	
4600003441	WENDEL ENERGY SERVICES LLC 375 ESSJAY RD - STE 200 WILLIAMSVILLE, NY 14221-5761 US	ENERGY SAVINGS PERFORMANCE CONTRACTING	C	B		N	N	30		22,000,000	0	0	22,000,000	2/15/2018	O	2/14/2023	
4600003442	AECOM USA INC 125 BROAD ST NEW YORK, NY 10004-2400 US	ENERGY SAVINGS PERFORMANCE CONTRACTING	C	B		N	N	30		22,000,000	0	0	22,000,000	2/15/2018	O	2/14/2023	
4600003443	NORESCO LLC 1 RESEARCH DR STE 400C WESTBOROUGH, MA 01581-3963 US	ENERGY SAVINGS PERFORMANCE CONTRACTING	C	B		F	N	30		22,000,000	0	0	22,000,000	2/15/2018	O	2/14/2023	
4600003444	ENERGY SYSTEMS GROUP LLC SUBSIDARY OF VECTREN ENERGY SERV 9877 EASTGATE CT NEWBURGH, IN 47630-9366 US	ENERGY SAVINGS PERFORMANCE CONTRACTING	C	B		N	N	30		22,000,000	0	0	22,000,000	2/15/2018	O	2/14/2023	
4600003445	ACCENTURE LLP 111 WASHINGTON ST ALBANY, NY 12210-2209 US	DIGITAL UTILITY STRATEGIC PARTNERSHIP FOR MANAGEMENT CONSULTING TECHNOLOGY EXECUTION, ISOC AND NYEM SUPPORT AND TRAINING	P	B		F	N	28		3,586,337	837,497	837,497	2,748,840	1/29/2018	O	10/31/2022	
4600003446	LOCKHEED MARTIN CORPORATION 1701 W. MARSHALL DRIVE GRAND PRAIRIE, TX 75051-2704 US	DIGITAL UTILITY STRATEGIC PARTNERSHIP FOR MANAGEMENT CONSULTING TECHNOLOGY EXECUTION, ISOC AND NYEM SUPPORT AND TRAINING	P	B		F	N	28		1,804,488	0	0	1,804,488	1/29/2018	O	10/31/2022	
4600003449	SIEMENS INDUSTRY INC 400 STATE ST SCHENECTADY, NY 12305-2304 US	DIGITAL UTILITY STRATEGIC PARTNERSHIP FOR MANAGEMENT CONSULTING TECHNOLOGY EXECUTION, ISOC AND NYEM SUPPORT AND TRAINING	P	B		N	N	28		1,804,488	0	0	1,804,488	2/10/2018	O	10/31/2022	
4600003450	BURNS & MCDONNELL CONSULTANTS INC BURNS & MCDONNELL CONSULTANTS PC 9400 WARD PKWY KANSAS CITY, MO 64114-3319 US	ASSET MANAGEMENT SUPPORT SERVICES	P	B		F	N	9		3,000,000	0	0	3,000,000	2/19/2018	O	10/31/2022	
4600003451	CABLETIME 100 VALLEY ROAD MOUNT ARLINGTON, NJ 07856 US	DIGITAL SIGNAGE FOR COMMUNICATIONS	E	C		F	N	4		1,025,606	713,028	713,028	312,578	3/13/2018	O	3/12/2022	
4600003452	PHILIPS LIGHTING NORTH AMERICA CORP 200 FRANKLIN SQUARE DR SOMERSET, NJ 08873-4186 US	ENERGY EFFICIENCY FOR STREET LIGHTING PROJECTS THROUGH OUT NEW YORK STATE	E	B		F	N	12		6,500,000	2,472,602	2,472,602	4,027,398	3/1/2018	O	3/20/2020	
4600003453	DELOITTE & TOUCHE LLP 4022 SELLS DR HERMITAGE, TN 37076-2903 US	INTERNAL CO-SOURCING SERVICES	P	C		N	N	8		7,400,000	924,197	924,197	6,475,803	5/1/2018	O	4/30/2023	

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4600003454	PRESIDIO NETWORKED SOLUTIONS GROUP DBA FOR PRESIDIO HOLDINGS INC 30 STANFORD DR - STE 2 FARMINGTON, CT 06032-2453 US	MAINTENANCE - SMARTNET	S	B	8	N	N	2		2,380,273	2,377,435	2,377,435	2,838	1/1/2018	O	12/31/2022	
4600003455	CDW COMPUTER CENTER INC CDW GOV'T SALES TWO ENTERPRISE DR - STE 404 SHELTON, CT 06484 US	CINEMASSIVE EQUIPMENT	E	B		N	N	3		3,750,000	34,816	34,816	3,715,184	2/27/2018	O	2/26/2021	
4600003456	GEXPRO DBA FOR REXEL USA INC 30 CORPORATE CIR STE 200 ALBANY, NY 12203-5149 US	ENERGY EFFICIENCY FOR STREET LIGHTING PROJECTS THROUGH OUT NEW YORK STATE	E	B		N	N	12		3,500,000	59,324	59,324	3,440,676	3/19/2018	O	3/18/2020	
4600003457	AMERESCO INC 50 FRONT ST STE 201 NEWBURGH, NY 12550-5685 US	ESPC PERFORMANCE CONTRACTING	E	B		N	N	30		22,000,000	0	0	22,000,000	2/15/2018	O	2/14/2023	
4600003459	C3 IOT INC 1300 SEAPORT BLVD STE 500 REDWOOD CITY, CA 94063-5592 US	DIGITAL UTILITY STRATEGIC PARTNERSHIP FOR MANAGEMENT CONSULTING TECHNOLOGY EXECUTION, ISOC AND NYEM SUPPORT AND TRAINING	E	B		F	N	28		9,500,000	5,262,787	5,262,787	4,237,213	3/30/2018	O	3/29/2023	
4600003460	L J GONZER ASSOCIATES 14 COMMERCE DR - STE 305 CRANFORD, NJ 07016 US	DRAFTING DESIGN SUPPORT	A	B	8	F	N	11		400,000	40,537	40,537	359,463	4/1/2018	O	3/31/2023	
4600003462	AEROTEK INC 757 3RD AVE - STE 201 NEW YORK, NY 10017 US	DRAFTING DESIGN SUPPORT	A	B	8	F	N	11		400,000	6,739	6,739	393,261	4/6/2018	O	3/31/2023	
4600003465	CANON SOLUTIONS AMERICA INC 1 CANON PRK MELVILLE, NY 11747-3036 US	MANAGED PRINT SERVICES	E	C		F	N	3		3,984,833	0	0	3,984,833	5/1/2018	O	4/30/2022	
4600003469	CARAHSOFT TECHNOLOGY CORPORATION SUITE 100 1860 MICHAEL FARADAY DRIV RESTON, VA 20190 US	IDENTITY AND ACCESS MANAGEMENT	E	B		F	N	7		1,807,433	381,176	381,176	1,426,257	6/4/2018	O	6/3/2023	
4600003472	ROTATOR STAFFING SERVICES INC 25 KENNEDY BLVD E BRUNSWICK, NJ 08816-1259 US	DRAFTING DESIGN SUPPORT	A	B	8	F	N	11		400,000	0	0	400,000	5/1/2018	O	3/31/2023	
4600003474	LEHIGH G I T INC 700 VETERANS MEMORIAL HWY STE 214 HAUPPAUGE, NY 11788-2969 US	DRAFTING DESIGN SUPPORT	A	B	8	N	N	11		600,000	76,798	76,798	523,202	5/7/2018	O	3/31/2023	
4600003475	MONROE STAFFING SERVICES LLC PO BOX 187 MONROE, CT 06468-0187 US	DRAFTING DESIGN SUPPORT	A	B	8	N	N	11		200,000	0	0	200,000	5/7/2018	O	3/31/2023	
4600003476	THE DAY & ZIMMERMANN GROUP INC STARPOINT SOLUTIONS LLC A YOH COMP 1500 SPRING GARDEN ST PHILADELPHIA, PA 19130 US	DRAFTING DESIGN SUPPORT	A	B	8	N	N	11		400,000	0	0	400,000	5/7/2018	O	3/31/2023	
4600003477	A-LINE E D S INC 808 DEARBORN AVE WATERLOO, IA 50703-5449 US	TRANSPORT AND DISPOSAL OF OIL FILLED EQUIPMENT	A	B		F	N	3		2,500,000	0	0	2,500,000	5/1/2018	O	4/30/2020	

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4600003478	TCI OF NY LLC PO BOX 936 COEYMANS, NY 12045-0936 US	TRANSPORT AND DISPOSAL OF OIL FILLED EQUIPMENT	A	B		F	01	3		2,500,000	0	0	2,500,000	5/1/2018	O	4/30/2020	
4600003481	SENTEC PROMOTIONS INC SUSIE SPECIALTIES 3960 HARLEM RD - STE 8 AMHERST, NY 14226-4706 US	PROMOTIONAL MATERIAL	E	M	8	F	03	1		150,000	144,945	144,945	5,055	5/21/2018	C		8/29/2018
4600003483	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	IDENTITY AND ACCESS MANAGEMENT SOFTWARE AND INTEGRATION SERVICES	P	C		F	N	7		1,807,432	0	0	1,807,432	5/21/2018	O	5/20/2023	
4600003484	GRAINGER DBA FOR W W GRAINGER INC DEPT 807245360 PALATINE, IL 60038-0001 US	MRO INDUSTRIAL SUPPLIES STATEWIDE	E	B		F	N	4		25,000,000	293,749	293,749	24,706,251	9/28/2018	O	9/27/2021	
4600003486	IMPERIA ENGINEERING PARTNERS LLC 2 ADVANTAGE COURT FL 2 BORDENTOWN, NJ 08505 US	ON-CALL ENGINEERING SERVICES	S	B		F	N	17		1,000,000	263,464	263,464	736,536	6/12/2018	O	12/31/2019	
4600003487	KLEINSCHMIDT ASSOCIATES PA PC PO BOX 650 PITTSFIELD, ME 04967-0650 US	LICENSING AND ENVIRONMENTAL PROTECTION/HABITAT IMPROVEMENT PERMITTING, DESIGN, AND IMPLEMENTATION SERVICES	A	B		F	N	7		2,475,000	184,221	184,221	2,290,779	6/14/2018	O	5/31/2023	
4600003489	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	LICENSING AND ENVIRONMENTAL PROTECTION/HABITAT IMPROVEMENT PERMITTING, DESIGN, AND IMPLEMENTATION SERVICES	A	B		N	N	7		2,475,000	91,072	91,072	2,383,928	6/1/2018	O	5/31/2023	
4600003490	SNC LTD 150 STATE ST - STE 120 ROCHESTER, NY 14614-1353 US	ON-CALL TRANSMISSION CONSULTING SERVICES FOR FUTURE INITIATIVES AND ACTIVITIES	A	B		N	N	14		649,400	0	0	649,400	6/14/2018	O	5/31/2023	
4600003491	LOUIS BERGER US INC 412 MOUNT KEMBLE AVE MORRISTOWN, NJ 07962-6666 US	LICENSING AND ENVIRONMENTAL PROTECTION/HABITAT IMPROVEMENT PERMITTING, DESIGN, AND IMPLEMENTATION SERVICES	A	B		N	N	7		2,475,000	0	0	2,475,000	6/14/2018	O	5/31/2023	
4600003492	ENERGY INITIATIVES GROUP LLC 29 BARTLETT ST MARLBOROUGH, MA 01752-3014 US	ON-CALL TRANSMISSION CONSULTING SERVICES FOR FUTURE INITIATIVES AND ACTIVITIES	A	B		N	N	14		6,253,000	55,804	55,804	6,197,196	6/14/2018	O	5/31/2023	
4600003493	LEIDOS ENGINEERING LLC 11951 FREEDOM DR RESTON, VA 20190-5640 US	ON-CALL TRANSMISSION CONSULTING SERVICES FOR FUTURE INITIATIVES AND ACTIVITIES	A	B		N	N	14		649,400	0	0	649,400	6/14/2018	O	5/31/2023	
4600003495	MOTT MACDONALD LLC DBA FOR MOTT MACDONALD INC 101 STATION DR STE 130 WESTWOOD, MA 02090-2392 US	ON-CALL TRANSMISSION CONSULTING SERVICES FOR FUTURE INITIATIVES AND ACTIVITIES	A	B		F	N	14		649,400	51,222	51,222	598,178	7/3/2018	O	5/31/2023	
4600003497	SIEMENS INDUSTRY INC 10900 WAYZATA BLVD - STE 400 MINNETONKA, MN 55305-5602 US	ON-CALL TRANSMISSION CONSULTING SERVICES FOR FUTURE INITIATIVES AND ACTIVITIES	A	B		F	N	14		649,400	0	0	649,400	7/5/2018	O	5/31/2023	
4600003498	BARD COLLEGE PO BOX 5000 ANNANDALE ON HUDSON, NY 12504-5000 US	ON SITE MBA PROGRAM	P	B		N	N	10		2,500,000	0	0	2,500,000	7/27/2018	O	7/26/2023	

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4600003499	ARCADIS US INC 655 3RD AVE - 12TH FL NEW YORK, NY 10017-5617 US	ORACLE PRIMAVERA CONSULTING SERVICES	P	B		N	N	12		392,000	0	0	392,000	8/27/2018	O	8/26/2023	
4600003501	TRC ENGINEERS INC 215 GREENFIELD PKWY - STE 102 LIVERPOOL, NY 13088-6651 US	LICENSING AND ENVIRONMENTAL PROTECTION/HABITAT IMPROVEMENT PERMITTING, DESIGN, AND IMPLEMENTATION SERVICES	A	B		N	N	7		2,475,000	11,542	11,542	2,463,458	7/27/2018	O	5/31/2023	
4600003502	SARGENT & LUNDY LLC 55 E MONROE ST CHICAGO, IL 60603 US	ON-CALL TRANSMISSION CONSULTING SERVICES FOR FUTURE INITIATIVES AND ACTIVITIES	A	B		N	N	14		1,583,333	0	0	1,583,333	7/30/2018	O	5/31/2023	
4600003507	TOLL INTERNATIONAL LLC 210 W 94TH ST STE 7E NEW YORK, NY 10025-6963 US	ORACLE PRIMAVERA CONSULTING SERVICES	P	B		N	04	12		125,000	0	0	125,000	8/27/2018	O	8/26/2023	
4600003511	LOUIS BERGER US INC 412 MOUNT KEMBLE AVE MORRISTOWN, NJ 07962-6666 US	ASBESTOS AND LEAD MANAGEMENT SERVICES	A	B		N	N	11		875,000	0	0	875,000	10/1/2018	O	9/30/2023	
4600003512	LU ENGINEERS 339 EAST AVE STE 202 ROCHESTER, NY 14604-2615 US	ASBESTOS AND LEAD TESTING SERVICES	A	B		N	04	11		875,000	0	0	875,000	10/1/2018	O	9/30/2023	
4600003513	AIRTEK ENVIRONMENTAL CORP 39-37 29TH ST LONG ISLAND CITY, NY 11101 US	ASBESTOS AND LEAD MANAGEMENT SERVICES	A	B		N	N	11		875,000	0	0	875,000	10/1/2018	O	9/30/2023	
4600003514	CHA CONSULTING INC III WINNERS CIRCLE ALBANY, NY 12205-0269 US	ASBESTOS AND LEAD MANAGEMENT SERVICES	A	B		N	N	11		875,000	0	0	875,000	10/1/2018	O	9/30/2023	
4600003515	LIRO ENGINEERS INC 3 AERIAL WAY SYOSSET, NY 11791-5501 US	ASBESTOS AND LEAD MANAGEMENT SERVICES	A	B		N	N	11		875,000	0	0	875,000	10/1/2018	O	9/30/2023	
4600003516	TRC ENGINEERS INC 215 GREENFIELD PKWY - STE 102 LIVERPOOL, NY 13088-6651 US	ASBESTOS AND LEAD MANAGEMENT SERVICES	A	B		N	N	11		875,000	0	0	875,000	10/1/2018	O	9/30/2023	
4600003517	KAM CONSULTANTS CORP 35-40 36TH ST LONG ISLAND CITY, NY 11106 US	ASBESTOS AND LEAD MANAGEMENT SERVICES	A	B		N	N	11		875,000	0	0	875,000	10/1/2018	O	9/30/2023	
4600003518	ADELAIDE ENVIRONMENTAL HEALTH ASSOCIATES INC 1511 ROUTE 22 - STE C24 BREWSTER, NY 10509-4082 US	ASBESTOS AND LEAD MANAGEMENT SERVICES	A	B		N	03	11		875,000	0	0	875,000	10/1/2018	O	9/30/2023	
4600003519	TSI TURTLE SERVICES LLC FORMERLY TECHNOSCOUTS INC 1900 LOWER RD LINDEN, NJ 07036-6519 US	AIR EMISSIONS COMPLIANCE REPORTING SERVICES FOR 9 SENY FACILITIES RUNNING COMBUSTION TURBINE GENERATORS	P	B		F	03	5		1,000,000	61,667	61,667	938,333	9/4/2018	O	9/4/2023	
4600003520	GE PACKAGED POWER LLC DBA FOR GENERAL ELECTRIC CO 16415 JACINTOPORT BLVD BLDG "B" HOUSTON, TX 77015 US	SCPP MAINTENANCE, REPAIR AND PARTS SERVICES FOR THE LM6000	S	B		N	N	1		9,000,000	2,848,855	2,848,855	6,151,145	10/1/2012	O	12/31/2019	
4600003521	J W DIDADO ELECTRIC LLC 1033 KELLY AVE AKRON, OH 44306-3143 US	T AND D EMERGENCY RESPONSE SERVICES	C	B		F	N	6		1,000,000	0	0	1,000,000	9/12/2018	O	9/11/2023	

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4600003522	NORTHLINE UTILITIES LLC DBA FOR NORTHLINE VENTURES INC 15 SCHOOL LN - STE 200 AU SABLE FORKS, NY 12912 US	T AND D EMERGENCY RESPONSE SERVICES	C	B		N	01	6		1,000,000	0	0	1,000,000	9/12/2018	O	9/11/2023	
4600003523	D & D POWER LLC 16 HEMLOCK ST LATHAM, NY 12110-2217 US	T AND D EMERGENCY RESPONSE SERVICES	C	B		N	N	6		1,000,000	0	0	1,000,000	9/12/2018	O	9/11/2023	
4600003524	MICHELS CORP- MICHELS POWER DBA FOR M10 INC 1775 E SHADY LN NEENAH, WI 54956 US	T AND D EMERGENCY RESPONSE SERVICES	C	B		F	N	6		1,000,000	0	0	1,000,000	9/12/2018	O	9/11/2023	
4600003526	HAUGLAND ENERGY GROUP LLC 11 COMMERCIAL ST PLAINVIEW, NY 11803-2401 US	T AND D EMERGENCY RESPONSE SERVICES	C	B		N	N	6		1,000,000	0	0	1,000,000	9/5/2018	O	9/4/2023	
4600003527	PRESIDIO NETWORKED SOLUTIONS GROUP DBA FOR PRESIDIO HOLDINGS INC 30 STANFORD DR - STE 2 FARMINGTON, CT 06032-2453 US	MAINTENANCE - ZOOM	S	B	8	N	N	2		13,851	13,851	13,851	0	6/1/2018	O	5/31/2019	
4600003528	LECHASE CONSTRUCTION SERVICES LLC 1473 ERIE BLVD SCHENECTADY, NY 12305-1004 US	UTICA VISITOR CENTER (FORMERLY KNOWN AS UTICA ENERGY ZONE)	C	C		N	N	2		15,700,000	0	0	15,700,000	11/7/2018	O	5/19/2020	
4600003531	JOHNSON CONTROLS INC 507 E MICHIGAN ST - MAILSTOP M-16 MILWAUKEE, WI 53202-5211 US	NIAGARA FIRE ALARM AND SAFETY SYSTEMS PROGRAM AND CLARK ENERGY CENTER	C	C		N	N	1		28,307,111	0	0	28,307,111	9/28/2018	O	7/31/2023	
4600003534	MILLENNIUM MAINTENANCE & ELECTRICAL CONTRACTORS INC 64 FREEMAN ST BROOKLYN, NY 11222-1328 US	NYPD LIGHTING UPGRADE	C	B	5	N	04	3		191,516	0	0	191,516	10/16/2018	O	9/30/2019	
4600003535	ZECO SYSTEMS INC GREENLOTS 925 N LA BREA AVE LOS ANGELES, CA 90038-2321 US	FURNISH, DELIVER, INSTALL, SERVICE, MAINTAIN, AND WARRANTY EVSE AND NETWORK SOFTWARE THROUGHOUT NYS	C	B		F	N	11		10,000,000	0	0	10,000,000	11/15/2018	O	11/14/2023	
4600003536	EFACEC USA INC 2725 NORTHWOODS PKWY STE B NORCROSS, GA 30071-5707 US	FURNISH, DELIVER, INSTALL, SERVICE, MAINTAIN, AND WARRANTY EVSE AND NETWORK SOFTWARE THROUGHOUT NYS	E	B		N	N	11		10,000,000	0	0	10,000,000	11/15/2018	O	11/14/2023	
4600003537	APEX SOLAR POWER LLC 64 MAIN ST QUEENSBURY, NY 12804-4036 US	FURNISH, DELIVER, INSTALL, SERVICE, MAINTAIN, AND WARRANTY EVSE AND NETWORK SOFTWARE THROUGHOUT NYS	C	B		N	N	11		10,000,000	0	0	10,000,000	11/15/2018	O	11/14/2023	
4600003538	EV CONNECT INC 615 N NASH ST - STE 203 EL SEGUNDO, CA 90245-2851 US	FURNISH, DELIVER, INSTALL, SERVICE, MAINTAIN, AND WARRANTY EVSE AND NETWORK SOFTWARE THROUGHOUT NYS	C	B		F	N	11		10,000,000	0	0	10,000,000	11/15/2018	O	11/14/2023	
4600003539	VERDEK LLC 123 ROLLING MEADOW RD MADISON, CT 06443-2309 US	FURNISH, DELIVER, INSTALL, SERVICE, MAINTAIN, AND WARRANTY EVSE AND NETWORK SOFTWARE THROUGHOUT NYS	C	B		F	N	11		10,000,000	0	0	10,000,000	11/15/2018	O	11/14/2023	
4600003540	EVGO DBA FOR EVGO SERVICES LLC 11390 WEST OLYMPIC BLVD STE 250 LOS ANGELES, CA 90064-1607 US	FURNISH, DELIVER, INSTALL, SERVICE, MAINTAIN, AND WARRANTY EVSE AND NETWORK SOFTWARE THROUGHOUT NYS	C	B		F	N	11		10,000,000	0	0	10,000,000	11/15/2018	O	11/14/2023	

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4600003541	MPREST INC P3511 SILVERSIDE RD STE 105 WILMINGTON, DE 19810 US	DIGITAL UTILITY PARTNERSHIP SERVICES	P	B		N	N	42		1,874,111	0	0	1,874,111	10/31/2018	O	10/30/2022	
4600003543	DOBLE ENGINEERING CORP C/O ELECTRICOM INC 4327 KENCREST DR SYRACUSE, NY 13215 US	DIGITAL UTILITY PARTNERSHIP	P	B		N	N	42		1,804,488	0	0	1,804,488	11/1/2018	O	10/30/2022	
4600003544	VRINDA INC 303 E 83RD ST - APT 32B NEW YORK, NY 10028-4324 US	DIGITAL UTILITY PARTNERSHIP SERVICES	P	B		N	04	42		1,804,488	0	0	1,804,488	11/1/2018	O	10/30/2022	
4600003545	UTEGRATION LLC 3535 BRIARPARK ST STE 101 HOUSTON, TX 77042-5233 US	DIGITAL UTILITY PARTNERSHIP SERVICES	P	B		F	N	42		1,804,488	0	0	1,804,488	11/1/2018	O	10/30/2022	
4600003546	ALSTOM GRID LLC DBA FOR GRID SOLUTIONS (US) LLC 1 POWER LN CHARLEROI, PA 15022-1082 US	VERTICAL MOTOR OPERATED DISCONNECT SWITCHES	E	B		F	N	1		986,445	0	0	986,445	11/11/2015	O	12/31/2019	
4600003547	GE ENERGY CONTROL SOLUTIONS LLC DBA FOR BAKER HUGHES A GE COMPANY L 1800 NELSON RD LONGMONT, CO 80501-6324 US	GE EXCITER	E	B		F	N	5		61,500	0	0	61,500	4/28/2018	O	12/31/2021	
4600003549	LIGHTSPEED TECHNOLOGIES INC 1829 CELESTE DR WALL TOWNSHIP, NJ 07719-9506 US	SG AND T COMMUNICATION BACKBONE-PHASES 1,2,3 FIBER ELECTRONICS AND SERVICES	C	B	7	F	N	1		13,830,808	0	0	13,830,808	12/3/2018	O	12/2/2025	
4600003552	CHAIONE INC 9 GREENWAY PLZ STE 850 HOUSTON, TX 77046-0913 US	DIGITAL UTILITY SERVICES	P	B		F	N	42		1,874,111	0	0	1,874,111	11/29/2018	O	10/22/2022	
4600003553	ELECTRIC POWER GROUP LLC 251 S LAKE AVE STE 300 PASADENA, CA 91101-3055 US	PROFESSIONAL SERVICES DIGITAL UTILITY PARTNERSHIP	P	B		F	N	42		1,874,111	0	0	1,874,111	12/17/2018	O	10/22/2022	
4600003554	TROVE PREDICTIVE DATA SCIENCE LLC 640 ELLICOTT ST STE 499 BUFFALO, NY 14203-1254 US	DIGITAL UTILITY PARTNERSHIP SERVICES	P	B		F	N	42		1,874,111	0	0	1,874,111	12/17/2018	O	10/22/2022	
4600003555	DIGITAL ENGINEERING LTD 6TH FLOOR NEWMINSTER HOUSE 27-29 BA BRISTOL, BR BS1 1LT GB	DIGITAL ENGINEERING SERVICES	P	B		F	N	42		1,874,111	0	0	1,874,111	12/17/2018	O	10/22/2022	
4600003556	UPTAKE TECHNOLOGIES INC 600 W CHICAGO AVE CHICAGO, IL 60654-2801 US	DIGITAL UTILITY PARTNERSHIP SERVICES	P	B		F	N	42		1,874,111	0	0	1,874,111	12/17/2018	O	10/22/2022	
4600003557	J5 NORTH AMERICA INC 25700 INTERSTATE 45 N STE 4080 THE WOODLANDS, TX 77386-1364 US	DIGITAL UTILITY PARTNERSHIP SERVICES	P	B		F	N	42		1,874,111	0	0	1,874,111	12/18/2018	O	10/22/2022	
4600003593	BUCK GLOBAL LLC DBA FOR SCHR US ACQUISITIONS INC 420 LEXINGTON AVE NEW YORK, NY 10017-2220 US	BENEFIT ADMINISTRATION AND CONSULTING SERVICES	P	B		N	N	2		1,544,350	0	0	1,544,350	12/16/2018	O	12/15/2023	
		WPO TOTALS								4,600,591,848	1,670,994,332	541,480,973	2,929,597,516				

POWER AUTHORITY OF THE STATE OF NEW YORK
2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS
REQUIRED BY N.Y. PUBLIC AUTHORITIES LAW, SECTION 2879

Total Number of Contracts	1382	
Total Contract Value		$4,600,591,848
Total Expended to Date		$1,670,994,332
Total Expended in Report Year		$541,480,973
Status Summary	Count	Contract Value
Open Contracts	929	$4,057,270,998
Closed Contracts	453	$543,320,850
Method of Award Summary		
Competitive Bid	1065	$4,452,862,239
Sole Source	117	$26,214,928
Single Source	147	$33,624,657
Competitive Search	46	$87,258,550
MWBE/SBE	7	$631,474
Commitment Type Summary		
Architectural and Engineering Services	85	$119,902,185
Construction	159	$2,488,590,474
Equipment / Goods / Commodities	224	$406,376,932
IT Hardware	44	$9,907,607
IT Software	41	$6,693,969
Legal Services	38	$29,335,581
Maintenance and Outage Services	2	$182,000,000
Personal Services	349	$435,944,192
IT Consulting and Development	2	$1,320,815
Other Non-Personal Services	392	$869,571,469
Contingent Workforce	46	$50,948,624

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4500204201	UTILITY SYSTEMS INC DBA FOR MAGNETIC INSTRUMENTATION 8431 CASTLEWOOD DR INDIANAPOLIS, IN 46250-1534 US	FURNISH, DELIVER, INSTALL TWO DIGITAL FAULT RECORDERS	E	B		F	N	4		115,605	107,512	17,040	8,093	6/17/2011	C		12/31/2018
4500280055	MAILFINANCE INC 478 WHEELERS FARMS RD MILFORD, CT 06461-9105 US	MAIL MACHINE RENTAL	E	B	5	N	N	1		12,000	3,408	1,704	8,592	2/1/2017	O	1/31/2022	
4500280095	BLOOMVILLE DISPOSAL SERVICE DBA FOR G HAYNES HOLDINGS INC 51971 STATE HWY 10 BLOOMVILLE, NY 13739 US	RUBBISH REMOVAL	S	M	5	N	01	1		70,000	70,000	17,653	0	1/3/2017	C		10/24/2018
4500282381	CARDISH MACHINE WORKS INC 7 ELM ST WATERVLIET, NY 12189-1826 US	SHOP SERVICES	S	M	8	N	01	1		100,000	91,377	7,000	8,623	10/25/2017	C		10/24/2018
4500282445	DMC POWER INC 623 E ARTESIA BLVD CARSON, CA 90746-1201 US	BUS POWER CONNECTORS	E	B	5	F	N	4	*	13,792	13,792	13,334	0	2/17/2017	C		3/22/2018
4500285051	KONE INC ONE KONE CT MOLINE, IL 61265 US	ELEVATOR SERVICES	S	B	7	N	N	1		7,757	7,757	1,438	0	5/3/2017	C		2/16/2018
4500288867	KONE INC ONE KONE CT MOLINE, IL 61265 US	510 GANTRY CRANE REPAIR	E	1	5	N	N	1	*	12,823	12,823	12,823	0	11/29/2017	C		5/1/2018
4500289010	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	150KVA TRANSFORMER	E	B	5	F	N	3		22,350	22,350	22,350	0	8/28/2017	C		1/18/2018
4500289641	M & B ENGINEERED SOLUTIONS INC 75 LAUREL ST CARBONDALE, PA 18407-2106 US	VIBRATION ANALYSIS ON VF1	E	2	5	F	N	1		10,100	0	0	10,100	9/15/2017	C		1/2/2018
4500289921	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	TRANSFORMER, CURRENT, OPTICAL, 4000A	E	B	5	F	N	3		21,546	21,546	21,546	0	9/25/2017	C		7/23/2018
4500290301	OIL FILTRATION SYSTEMS LLC 135 ENTERPRISE PKWY BOERNE, TX 78006-8634 US	OIL VARNISH REMOVAL SYSTEM	E	B	5	N	N	5		24,820	24,820	24,820	0	10/4/2017	C		1/8/2018
4500290840	KESTREL POWER ENGINEERING LLC 9126 N 2150 EAST RD FAIRBURY, IL 61739-9204 US	TESTING AND ANALYSIS OF NERC MOD-026/027	S	1	8	N	N	1		49,900	49,900	38,900	0	10/19/2017	C		5/11/2018
4500290975	ACTUATOR SPECIALTIES INC 1620 ROSE ST MONROE, MI 48162 US	REBUILD LIMITORQUE ACTUATOR	E	2	5	F	N	1	*	15,455	15,455	15,455	0	10/25/2017	C		3/27/2018
4500291606	GRACON LLC 7221 E US HIGHWAY 34 LOVELAND, CO 80537-8956 US	RUNNER BAND DRAIN VALVE	E	1	8	F	N	1		174,489	174,489	174,489	0	11/14/2017	C		11/21/2018
4500291978	VETERAN ELECTRICAL SUPPLY INC 864 WILLIS AVE STE 4 ALBERTSON, NY 11507-1930 US	NEMA 4X ENCLOSURES	E	B	5	N	02	4		5,580	5,580	5,580	0	11/27/2017	C		2/7/2018
4500292074	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	QUINCY COMPRESSOR	E	B	5	N	01	3		6,212	6,212	6,212	0	11/29/2017	C		1/9/2018

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4500292280	WESCO DISTRIBUTION INC PO BOX 390 SYRACUSE, NY 13201-0390 US	LED LIGHTING	E	B	5	N	N	5		22,122	22,122	13,473	0	12/5/2017	C		1/19/2018
4500292383	S & C ELECTRIC CO INC C/O E L FLOWERS & ASSOCIATES 113 MAIN ST STURBRIDGE, MA 01566-1280 US	SWITCHGEAR	E	B	5	N	N	5		13,350	13,350	13,350	0	12/8/2017	C		3/12/2018
4500292466	JOHNSON CONTROLS INC 507 E MICHIGAN ST - MAILSTOP M-16 MILWAUKEE, WI 53202-5211 US	SUPPLY AND INSTALL THREE REPLACEMENT SECURITY CAMERAS	E	2	5	N	N	1		31,440	10,218	10,218	21,222	12/11/2017	O	3/29/2019	
4500292623	CG INDUSTRIAL SAFETY INC 1213 SPARROW LN - PO BOX 2328 PEEKSKILL, NY 10566-4021 US	ASTRONOVA SMARTCORDER	E	B	5	N	03	4		23,071	23,071	23,071	0	12/14/2017	C		1/17/2018
4500292626	CAPITAL SIGNS & GRAPHICS INC 18 RAILROAD AVE ALBANY, NY 12205-5727 US	LED SIGN	E	C	5	N	N	3		14,177	14,177	14,177	0	12/14/2017	C		3/15/2018
4500292840	SAFEARTH AMERICAS CORP 12013 SW MARIGOLD AVE PORT ST LUCIE, FL 34987-2866 US	SITE CONTINUITY METER	E	B	5	F	N	3	*	12,174	12,174	12,174	0	12/21/2017	C		2/26/2018
4500293064	WASTE MANAGEMENT OF EASTERN NY AMSTERDAM SERVICE CENTER PO BOX 526 AMSTERDAM, NY 12010-0526 US	RUBBISH REMOVAL AND RECYCLING	S	B	7	N	N	1		11,091	10,984	10,984	107	1/3/2018	C		1/3/2018
4500293187	GOTTOGO ELECTRIC INC DBA FOR GOTTOGO ENTERPRISES 7865 E MAIN RD LE ROY, NY 14482-9747 US	HITACHI BREAKER PARTS	E	2	8	N	03	1	*	69,811	69,811	69,811	0	1/8/2018	C		7/19/2018
4500293438	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	TRANSMISSION LINE PARTS	E	C	5	N	N	3		6,771	6,771	6,771	0	1/15/2018	C		2/26/2018
4500293455	HASGO POWER EQUIPMENT SALES INC 151 E MAIN RD - PO BOX 400 LE ROY, NY 14482-1237 US	CROSSARM FRAMING KITS	E	B	5	N	N	3		11,900	11,900	11,900	0	1/15/2018	C		4/25/2018
4500293476	CITY ELECTRIC CO INC 23763 NYS RTE 12 WATERTOWN, NY 13601 US	HUGHES BROTHERS CROSS ARMS	E	M	5	N	N	1		29,440	29,440	29,440	0	1/16/2018	C		6/14/2018
4500293479	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	TRANSMISSION LINE PARTS	E	C	5	N	N	3		5,693	5,693	5,693	0	1/16/2018	C		3/1/2018
4500293560	INGERSOLL RAND AIR CENTERS 28 CORPORATE CIR - STE 2 EAST SYRACUSE, NY 13057-1283 US	COOLANT	E	C	5	N	N	3	*	8,346	8,346	8,346	0	1/17/2018	C		3/21/2018
4500294154	SNAP-ON INDUSTRIAL A DIVISION OF IDSC HOLDINGS LLC 21755 NETWORK PL CHICAGO, IL 60673-1217 US	SNAP-ON TOOLS	E	B	5	F	N	3		6,267	6,204	6,204	63	2/1/2018	C		7/31/2018
4500294336	CROSS MACHINE INC 167 GLEN AVE - PO BOX 529 BERLIN, NH 03570 US	REPAIR TRASH RAKE BOOM	S	2	5	F	N	1		31,507	31,507	31,507	0	2/7/2018	C		5/17/2018
4500294354	MIRABITO FUEL GROUP 10 CARBON ST ONEONTA, NY 13820 US	PROPANE	E	B	5	N	N	1		15,236	15,236	15,236	0	2/7/2018	C		2/7/2018

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4500294523	CARGILL INC 24950 COUNTRY CLUB BLVD - STE 450 NORTH OLMSTED, OH 44070-5333 US	ROAD SALT	E	B	5	N	N	1		5,439	5,439	5,439	0	2/13/2018	C		3/9/2018
4500294539	ANTHONY A GIRASOLE GIRASOLE APPRAISAL ASSOC LLC 225 OLD FALLS ST - STE M NIAGARA FALLS, NY 14302-1262 US	REAL PROPERTY APPRAISAL SERVICES	S	2	6	N	N	1		6,400	6,400	6,400	0	2/13/2018	C		2/13/2018
4500294548	STRATEGIC RESPONSE INITIATIVES LLC 44 DALLIBA AVE STE 204 WATERVLIET, NY 12189-4017 US	PROTO WORKSTATIONS	E	B	5	N	02	3		6,598	6,598	6,598	0	2/13/2018	C		3/26/2018
4500294645	KONE INC ONE KONE CT MOLINE, IL 61265 US	ELEVATOR SERVICES	E	B	5	N	N	1		8,000	7,904	7,904	96	2/15/2018	C		12/31/2018
4500294650	GE ENERGY CONTROL SOLUTIONS INC 1800 NELSON RD LONGMONT, CO 80501-6324 US	VALVES	E	C	5	F	N	3		17,908	17,908	17,908	0	2/15/2018	C		8/16/2018
4500294658	YOKOGAWA CORPORATION OF AMERICA C/O APPLIED MEASUREMENT & CONTROL 314 HOGAN RD FAIRPORT, NY 14450-8414 US	YOKOGAWA DATA RECORDER	E	B	5	F	N	4		9,380	9,380	9,380	0	2/15/2018	C		3/12/2018
4500294669	HAINES FALLS AUTO SERVICE & SALES INC PO BOX 121 HAINES FALLS, NY 12436-0121 US	REMOVAL AND DISPOSAL OF B-G LEM TRAILERS	C	B	8	N	N	5		52,600	52,600	52,600	0	2/15/2018	C		5/9/2018
4500295091	SAFESPAN SCAFFOLDING LLC 252 FILLMORE AVE TONAWANDA, NY 14150 US	SCAFFOLDING	S	1	5	N	N	1		7,204	6,670	6,670	534	2/28/2018	C		7/10/2018
4500295128	OMICRON ELECTRONICS CORP USA 3550 WILLOWBEND BLVD HOUSTON, TX 77054-1127 US	OMICRON TEST EQUIPMENT	E	B		F	N	2		57,235	57,235	57,235	0	3/1/2018	C		5/9/2018
4500295362	QUALITY ENGINEERED PRODUCTS INC 78 GRANDVIEW DR WESTBROOK, ME 04062-3683 US	J SEAL PUSHER SYSTEM FOR CRESCENT POWER PLANT	E	B	5	N	N	3		21,500	21,500	21,500	0	3/9/2018	C		8/31/2018
4500295743	AFL TELECOMMUNICATIONS LLC C/O METROWEST ELECTRIC SALES INC 18 LYMAN ST - STE A - BOX 1082 WESTBOROUGH, MA 01581-1459 US	TRANSMISSION PARTS	E	C	5	F	N	3		7,374	7,374	7,374	0	3/21/2018	C		5/23/2018
4500295748	ACTUATOR SPECIALTIES INC 1620 ROSE ST MONROE, MI 48162 US	LIMITORQUE PARTS	E	C	5	F	N	3	*	14,434	14,434	14,434	0	3/21/2018	C		5/1/2018
4500295884	SCHWEITZER ENGINEERING LAB INC C/O ROBINSON SALES INC 100 W SIXH ST - STE 4 MEDIA, PA 19063-2433 US	REAL-TIME AUTOMATION CONTROLLER	E	B	5	N	N	4		10,320	10,320	10,320	0	3/26/2018	C		5/16/2018

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4500296001	WESCO DISTRIBUTION INC PO BOX 390 SYRACUSE, NY 13201-0390 US	HOFFMAN ENCLOSURES	E	B	5	N	N	5		28,772	28,772	28,772	0	3/28/2018	C		5/25/2018
4500296028	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	VERTICAL FILE CABINETS	E	B	5	N	01	3		17,879	17,700	17,700	179	3/29/2018	C		8/31/2018
4500296043	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	TRANSMISSION PARTS	E	C	5	N	N	3		26,429	26,429	26,429	0	3/29/2018	C		5/18/2018
4500296081	ALLIED ELECTRONICS INC 333 METRO PARK - STE N211 ROCHESTER, NY 14623-2645 US	PHOENIX UPS AND BATTERIES	E	B	5	F	N	4	*	15,806	15,806	15,806	0	4/2/2018	C		6/25/2018
4500296207	GE ENERGY CONTROL SOLUTIONS INC 1800 NELSON RD LONGMONT, CO 80501-6324 US	TRANSFORMERS	E	C	5	F	N	3		7,614	7,614	7,614	0	4/4/2018	C		8/31/2018
4500296297	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	INSULATORS	E	C	5	N	N	3		24,910	24,910	24,910	0	4/6/2018	C		6/25/2018
4500296396	DOWD BATTERY CO INC 1571 BRONSON RD GRAND ISLAND, NY 14072-2910 US	ENERSYS BATTERIES AND RACKS	E	B	5	N	01	7		68,400	68,400	68,400	0	4/10/2018	C		7/17/2018
4500296436	HASGO POWER EQUIPMENT SALES INC 151 E MAIN RD - PO BOX 400 LE ROY, NY 14482-1237 US	TRENCH LINE TUNER	E	B	5	N	N	4		6,250	6,250	6,250	0	4/11/2018	C		8/30/2018
4500296498	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	CISCO HARDWARE	E	B	8	N	04	6		68,748	68,748	68,748	0	4/12/2018	C		8/31/2018
4500296795	GE INDUSTRIAL SYSTEMS INC 180 ROTTERDAM IND PARK - BLDG 1 B8 ROTTERDAM, NY 12306-1920 US	GE BREAKER UPGRADE	E	1	5	N	N	1		23,281	0	0	23,281	4/23/2018	O	3/29/2019	
4500296923	WESCO DISTRIBUTION INC PO BOX 390 SYRACUSE, NY 13201-0390 US	CORNING PARTS FOR SENSOR DEPLOYMENT PROJECT	E	B	5	N	N	5	*	45,538	45,538	45,538	0	4/25/2018	C		8/31/2018
4500297029	MIRABITO FUEL GROUP 10 CARBON ST ONEONTA, NY 13820 US	PROPANE	E	B	5	N	N	1		13,184	13,184	13,184	0	4/27/2018	C		5/8/2018
4500297041	SUNY COBLESKILL FOUNDATION ROOM 201 KNAPP HALL - SUNY COBLESKI COBLESKILL, NY 12043 US	FISH STOCKING	E	2	5	N	N	1		10,000	10,000	10,000	0	4/30/2018	C		8/31/2018
4500297047	LIGNUM VITAE NORTH AMERICA LLC 2487 JUDES FERRY RD POWHATAN, VA 23139-5212 US	TURBINE BEARING PARTS	E	1	8	F	N	1		18,218	18,218	18,218	0	4/30/2018	C		5/15/2018
4500297508	CROSS MACHINE INC 167 GLEN AVE - PO BOX 529 BERLIN, NH 03570 US	TRASH RAKE REPAIR	S	B	5	F	N	3		19,584	17,860	17,860	1,724	5/11/2018	C		8/31/2018
4500297527	FRITEL AND ASSOCIATES LLC DIVERSIFIED PRODUCT DEVELOPMENT 1001 WEBSTER AVE WACO, TX 76706-1545 US	TRANSMISSION POLE PULLER	E	B	5	F	N	4		13,287	13,287	13,287	0	5/11/2018	C		11/6/2018

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4500297738	WESCO DISTRIBUTION INC PO BOX 390 SYRACUSE, NY 13201-0390 US	LINE DEPT PARTS	E	C	5	N	N	3		17,831	17,831	17,831	0	5/18/2018	C		8/24/2018
4500297751	LEONARD R COONS PAINTING INC 759 LAWTON HOLLOW RD MIDDLEBURGH, NY 12122-5922 US	PAINTING LANSING MANOR MUSEUM BUILDINGS AT VISITOR CENTER	C	C	5	N	N	3		29,860	29,860	29,860	0	5/18/2018	C		8/15/2018
4500298144	MIRABITO FUEL GROUP 10 CARBON ST ONEONTA, NY 13820 US	FUEL	E	B	7	N	N	1		5,738	5,738	5,738	0	6/4/2018	C		6/6/2018
4500298263	GOTTOGO ELECTRIC INC DBA FOR GOTTOGO ENTERPRISES 7865 E MAIN RD LE ROY, NY 14482-9747 US	INTERRUPTER, CIRCUIT, REPAIR KIT, 345KV, SF6	E	C	5	N	03	3	*	30,567	30,567	30,567	0	6/7/2018	C		6/27/2018
4500298370	STEEL SALES INC PO BOX 539 8085 STATE HIGHWAY 12 SHERBURNE, NY 13460 US	STRUCTURAL STEEL	E	B	5	N	03	3		6,000	5,999	5,999	1	6/11/2018	C		8/31/2018
4500298414	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	ELECTROSWITCH SWITCHES	E	B	5	N	01	3		11,940	11,821	11,821	119	6/13/2018	C		7/23/2018
4500298441	ALLIED ELECTRIC SUPPLY INC 783 E MAIN ST - STE 2 COBLESKILL, NY 12043-5002 US	SQUARED PARTS	E	B	5	N	01	6		5,400	5,400	5,400	0	6/13/2018	C		8/31/2018
4500298759	B & H PHOTO VIDEO DBA FOR B&H FOTO & ELECTRONICS CORP 420 9TH AVE NEW YORK, NY 10001-1644 US	AERIAL DRONE FOR TRANSMISSION	E	B	5	N	N	5		14,473	14,473	14,473	0	6/25/2018	C		7/17/2018
4500298766	BLOOMVILLE DISPOSAL SERVICE DBA FOR G HAYNES HOLDINGS INC 51971 STATE HWY 10 BLOOMVILLE, NY 13739 US	MUNICIPAL WASTE REMOVAL	S	B	5	N	01	5		45,000	28,847	28,847	16,153	6/25/2018	O	6/25/2019	
4500298858	HITACHI T & D SOLUTIONS INC 7250 MCGINNIS FERRY RD SUWANEE, GA 30024-1245 US	PILOT VALVE ASSEMBLY	E	C	5	F	N	3	*	6,605	6,605	6,605	0	6/27/2018	C		8/27/2018
4500299321	RONAN ENGINEERING CO PO BOX 129 CASTAIC, CA 91310-0129 US	ANNUNCIATOR	E	C	5	F	N	3	*	42,006	42,006	42,006	0	7/13/2018	C		10/3/2018
4500299355	INSTRUMART DBA FOR TOTAL TEMPERATURE INSTR 35 GREEN MOUNTAIN DR SOUTH BURLINGTON, VT 05403-7824 US	ULTRASONIC FLOW METER	E	B	5	F	N	5		8,277	8,277	8,277	0	7/16/2018	C		8/13/2018
4500299670	EATON CORP C/O HASGO POWER EQUIPMENT SALES INC 151 W MAIN ST - PO BOX 400 LE ROY, NY 14482-1317 US	EATON MCC BUCKET	E	B	5	N	N	4		6,824	6,824	6,824	0	7/25/2018	C		8/16/2018
4500300184	CENTRAL HUDSON GAS&ELECTRIC CORP PO BOX 312 POUGHKEEPSIE, NY 12602 US	CONFIRMING ORDER FOR 500KVA TRANSFORMER INSTALL	P	1	5	N	N	1		12,000	12,000	12,000	0	8/9/2018	C		8/9/2018

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4500300481	AIR COMPRESSOR ENGINEERING INC PO BOX 401 CLIFTON PARK, NY 12065-4554 US	AIR COMPRESSOR UNIT FOR BG	E	C	6	N	N	2		6,595	6,595	6,595	0	8/17/2018	C		9/5/2018
4500300582	METROWEST ELECTRIC SALES INC 18 LYMAN ST - STE A WESTBOROUGH, MA 01581-1436 US	INSULATOR	E	B	5	F	N	3		5,970	0	0	5,970	8/21/2018	C		10/31/2018
4500300632	PRIME LUBE INC 800 ROOSEVELT AVE CARTERET, NJ 07008 US	SHELL TURBO T46 OIL	E	B	5	F	N	3		8,483	8,483	8,483	0	8/22/2018	C		9/12/2018
4500300912	GENERGY CORP 1873 WESTERN AVE STE 204 ALBANY, NY 12203-5028 US	RELAY	E	B	5	N	01	3		26,436	26,436	26,436	0	8/30/2018	C		10/9/2018
4500300935	GOTTOGO ELECTRIC INC DBA FOR GOTTOGO ENTERPRISES 7865 E MAIN RD LE ROY, NY 14482-9747 US	EATON 18KVA UPS	E	B	5	N	03	7		23,961	19,319	19,319	4,642	8/31/2018	O	3/29/2019	
4500301121	CLIPPERCREEK INC 11850 KEMPER RD STE E AUBURN, CA 95603-9013 US	EV CHARGING STATIONS FOR BG	E	C	6	F	N	3		13,732	13,732	13,732	0	9/6/2018	C		9/19/2018
4500301353	VERTIV CORPORATION C/O RL KISTLER PO BOX 70474 CHICAGO, IL 60673-0001 US	DATA RACK COOLING UNIT	E	B	5	N	N	3		16,400	15,975	15,975	425	9/13/2018	O	3/29/2019	
4500301404	KEYSTONE PRECISION INSTRUMENTS DBA FOR KMEL CORP 1670 E RACE ST ALLENTOWN, PA 18109-9580 US	GPS SYSTEM RADIO AND SOFTWARE	E	1	6	N	N	1		35,745	0	0	35,745	9/14/2018	O	3/29/2019	
4500301730	CORRPRO COMPANIES INC 1055 W SMITH RD MEDINA, OH 44256-2444 US	CATHODIC PROTECTION SYSTEM ANNUAL SURVEY	P	2	5	F	N	1		6,495	0	0	6,495	9/25/2018	O	3/29/2019	
4500301852	JOHNSON CONTROLS INC 130 JOHN MUIR DR - STE 100 AMHERST, NY 14228-1139 US	ACCESS CONTROL SYSTEM MAINTENANCE AGREEMENT	S	B	7	N	N	1		91,450	61,230	61,230	30,220	10/1/2018	O	9/30/2019	
4500301861	THREADED FASTENERS INC 358 SAINT LOUIS ST MOBILE, AL 36602-2825 US	WEATHERING STEEL BOLTS FOR BG	E	C	6	F	N	1		9,435	9,341	9,341	94	9/28/2018	O	3/29/2019	
4500301885	HITACHI T & D SOLUTIONS INC 7250 MCGINNIS FERRY RD SUWANEE, GA 30024-1245 US	EMERGENCY INVESTIGATION AFTER BREAKER FAILURE	S	1	5	F	N	1		50,770	32,510	32,510	18,260	9/28/2018	O	3/29/2019	
4500301960	CARDISH MACHINE WORKS INC 7 ELM ST WATERVLIET, NY 12189-1826 US	RESIN PACKING RING SEGMENTS	E	B	5	N	01	3		11,000	11,000	11,000	0	10/2/2018	C		12/10/2018
4500302051	HANES SUPPLY INC RAILROAD AVE COLONIE, NY 12205 US	AIR HOIST	E	B	5	N	N	3		5,552	5,552	5,552	0	10/4/2018	C		10/23/2018
4500302059	IRIS POWER LP 3110 AMERICAN DR MISSISSAUGA, ON L4V 1T2 CA	IRIS TROUBLESHOOTING	S	1	5	F	N	1		7,795	0	0	7,795	10/4/2018	O	3/29/2019	
4500302484	MIRABITO FUEL GROUP 10 CARBON ST ONEONTA, NY 13820 US	FUEL	E	B	7	N	N	1		5,585	5,585	5,585	0	10/18/2018	C		10/18/2018

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4500302618	HITACHI T & D SOLUTIONS INC 7250 MCGINNIS FERRY RD SUWANEE, GA 30024-1245 US	HITACHI BREAKER MAINTENANCE KITS	E	1	1	F	N	1		562,832	0	0	562,832	10/23/2018	O	10/1/2019	
4500302638	HELWIG CARBON PRODUCTS INC 8900 W TOWER AVE - BOX 240160 MILWAUKEE, WI 53224-9008 US	PACKING RINGS, GRAPHITE CARBON	E	B	5	F	N	3		6,217	6,217	6,217	0	10/24/2018	C		12/21/2018
4500302752	L & S ELECTRIC INC 1810 COUNTY RD XX ROTHSCHILD, WI 54474-7801 US	OEM PLC SUPPORT AT NTO	S	1	5	F	N	1		19,460	19,460	19,460	0	10/26/2018	C		11/9/2018
4500302999	CARDISH MACHINE WORKS INC 7 ELM ST WATERVLIET, NY 12189-1826 US	MICARTA BEARINGS FOR BG	E	C	6	N	01	3		6,000	0	0	6,000	11/2/2018	O	6/1/2019	
4500303149	OIL SKIMMERS INC DBA FOR OSI ENVIRONMENTAL LLC 12800 YORK RD - STE G NORTH ROYALTON, OH 44133-3682 US	REPLACEMENT OIL SKIMMERS FOR BG PLANT	E	C	5	F	N	2	*	9,971	9,971	9,971	0	11/7/2018	C		12/4/2018
4500303171	CROWN CASTLE INTERNATIONAL CORP CROWN CASTLE USA INC 1220 AUGUSTA DR STE 600 HOUSTON, TX 77057-6801 US	RADIO EQUIPMENT RELOCATION	S	1	5	F	N	1		10,235	10,235	10,235	0	11/7/2018	C		12/11/2018
4500303234	CORE TECH INDUSTRIAL CORP 5 MCCREA HILL RD BALLSTON SPA, NY 12020-5511 US	FM 200 TANKS FOR ASHOKAN	E	B	5	N	N	3		13,325	0	0	13,325	11/9/2018	O	3/29/2019	
4500303478	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	DELL MONITORS	H	B	7	F	04	3		5,881	5,881	5,881	0	11/19/2018	C		11/26/2018
4500303509	PRUFTECHNIK INC 7821 BARTAM AVE STE 3 PHILADELPHIA, PA 19153-3233 US	ROTALIGN TOUCH STANDARD PACKAGE	E	C	6	F	N	3		20,410	0	0	20,410	11/20/2018	O	11/21/2019	
4500303753	BRENNTAG NORTH AMERICA INC BWE-LLC (NOCO LUBRICANTS) 42 RUMSEY RD EAST HARTFORD, CT 06108-1133 US	LUBRICATING GEAR OIL	E	B	5	F	N	3		11,336	3,174	3,174	8,162	11/30/2018	O	3/31/2019	
4500303985	OMICRON ELECTRONICS CORP USA 3550 WILLOWBEND BLVD HOUSTON, TX 77054-1127 US	OMICRON VOTANO TEST SET	E	B	5	F	N	4		42,950	0	0	42,950	12/7/2018	O	1/14/2019	
4500304306	DILO COMPANY INC 11642 PYRAMID DR ODESSA, FL 33556-3449 US	DILO ANALYZER UNIT	E	B	5	F	N	3		26,850	0	0	26,850	12/18/2018	O	1/11/2019	
4500304408	DAIKIN APPLIED AMERICAS INC DBA DAIKIN APPLIED 13600 INDUSTRIAL PARK BLVD MINNEAPOLIS, MN 55441-3743 US	DAIKIN HVAC PARTS AND REPAIR AT WAREHOUSE BUILDING	S	2	5	F	N	1		6,985	0	0	6,985	12/19/2018	O	1/31/2019	
4500304501	MEGGER 4271 BRONZE WAY DALLAS, TX 75237 US	MEGGER UNIT	E	B		F	N	6		76,698	0	0	76,698	12/21/2018	O	2/15/2019	
4500304533	MOTION INDUSTRIES INC 132 RAILROAD AVE - STE 2 ALBANY, NY 12205-5779 US	SHEAR PINS	E	B	5	N	N	3		8,509	0	0	8,509	12/26/2018	O	2/12/2019	
		BG TOTALS								3,002,701	2,021,447	1,766,121	981,254				

POWER AUTHORITY OF THE STATE OF NEW YORK
2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS
REQUIRED BY N.Y. PUBLIC AUTHORITIES LAW, SECTION 2879

Total Number of Contracts	106	
Total Contract Value		$3,002,701
Total Expended to Date		$2,021,447
Total Expended in Report Year		$1,766,121
Status Summary	Count	Contract Value
Open Contracts	22	$1,129,667
Closed Contracts	84	$1,873,034
Method of Award Summary		
Competitive Bid	60	$1,303,648
Sole Source	13	$984,752
Single Source	9	$188,193
Competitive Search	21	$326,668
MWBE/SBE	3	$199,440
Commitment Type Summary		
Architectural and Engineering Services	0	$0
Construction	2	$82,460
Equipment / Goods / Commodities	85	$2,360,727
IT Hardware	1	$5,881
IT Software	0	$0
Legal Services	0	$0
Maintenance and Outage Services	0	$0
Personal Services	2	$18,495
IT Consulting and Development	0	$0
Other Non-Personal Services	16	$535,138
Contingent Workforce	0	$0

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4400000001	MIRABITO FUEL GROUP 10 CARBON ST ONEONTA, NY 13820 US	FUEL	E	B	7	N	N	1		8,800	2,680	0	6,120	1/1/2017	C		12/31/2018
4400000003	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		60,000	58,054	42,198	1,946	1/3/2017	C		12/18/2018
4400000004	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		40,000	22,047	11,237	17,953	1/1/2017	C		12/18/2018
4400000010	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		24,500	12,984	12,984	11,516	1/4/2017	C		8/30/2018
4400000020	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		10,000	5,266	1,706	4,734	1/1/2017	C		12/18/2018
4400000023	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		10,000	7,407	4,357	2,593	1/1/2017	C		12/18/2018
4400000024	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		9,897	9,897	3,149	0	1/1/2017	C		8/30/2018
4400000027	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		10,000	6,727	3,626	3,273	1/1/2017	C		12/18/2018
4400000028	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		25,000	17,306	6,532	7,694	1/1/2017	C		8/30/2018
4400000034	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		10,000	7,738	2,017	2,262	1/9/2017	C		8/30/2018
4400000035	NOCO ENERGY CORP 2440 SHERIDAN DR - STE 202 TONAWANDA, NY 14150-9493 US	FUEL	E	2	5	N	N	1		10,000	9,205	7,160	795	1/9/2017	C		8/30/2018
4400000036	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		90,000	75,445	42,602	14,555	1/9/2017	C		8/31/2018
4400000038	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		12,000	9,672	2,359	2,328	1/9/2017	C		8/30/2018
4400000039	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		68,000	53,250	40,180	14,750	1/9/2017	C		12/18/2018

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4400000040	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		45,000	26,914	17,207	18,086	1/9/2017	C		12/18/2018
4400000041	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		66,000	65,889	37,164	111	1/9/2017	C		12/18/2018
4400000042	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		40,000	26,262	15,542	13,738	1/9/2017	C		12/18/2018
4400000043	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	3		50,000	39,984	20,767	10,016	1/2/2017	C		12/31/2018
4400000044	NOCO ENERGY CORP 2440 SHERIDAN DR - STE 202 TONAWANDA, NY 14150-9493 US	FUEL	E	B	7	N	N	1		60,000	55,340	30,916	4,660	1/9/2017	C		12/18/2018
4400000046	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		20,000	15,969	9,335	4,031	1/9/2017	C		12/18/2018
4400000047	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		25,000	20,655	16,884	4,345	1/10/2017	C		8/30/2018
4400000048	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		5,000	0	0	5,000	1/3/2017	C		8/30/2018
4400000049	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		10,000	9,129	6,750	871	1/1/2017	C		8/30/2018
4400000050	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		25,000	18,829	13,939	6,171	1/3/2017	C		8/30/2018
4400000057	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		45,000	44,829	35,991	171	1/1/2017	C		8/30/2018
4400000059	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		20,000	2,252	0	17,748	1/3/2017	C		12/18/2018
4400000061	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		60,000	11,539	9,304	48,461	1/11/2017	C		8/30/2018
4400000065	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		10,000	0	0	10,000	1/1/2017	C		12/18/2018

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4400000066	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		200,000	108,736	52,866	91,264	1/1/2017	C		12/18/2018
4400000067	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		30,000	24,225	16,378	5,775	1/11/2017	C		12/31/2018
4400000068	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		20,000	18,668	13,895	1,332	1/11/2017	C		3/1/2018
4400000070	KURK FUEL OIL CO DBA FOR GOETZ ENERGY CORP PO BOX A BUFFALO, NY 14217-0305 US	FUEL	E	B	7	N	01	1		14,500	8,526	4,340	5,974	1/1/2017	C		12/31/2018
4400000071	KURK FUEL OIL CO DBA FOR GOETZ ENERGY CORP PO BOX A BUFFALO, NY 14217-0305 US	FUEL	E	B	7	N	01	1		20,000	13,298	7,413	6,702	1/11/2017	C		3/1/2018
4400000076	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		20,000	19,709	2,450	291	1/1/2017	C		12/18/2018
4400000077	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		20,000	17,970	8,776	2,030	1/12/2017	C		8/30/2018
4400000107	COUNTY WASTE & RECYCLING SERVICE IN 1927 ROUTE 9 PO BOX 431 CLIFTON PARK, NY 12065 US	RUBBISH REMOVAL AND RECYCLING	S	B	7	N	N	1		10,000	6,081	1,700	3,919	1/1/2017	O	11/30/2020	
4400000140	HANSON AGGREGATES NEW YORK LLC 4800 JAMESVILLE RD PO BOX 513 JAMESVILLE, NY 13078 US	FINE AND COARSE AGGREGATES	E	B	7	N	N	1		40,000	35,135	16,894	4,865	1/26/2017	C		1/25/2018
4400000143	ELLICOTT DREDGES LLC ELLICOTT DREDGE ENTERPRISES LLC, EL 1425 WICOMICO ST BALTIMORE, MD 21230 US	DREDGE REPAIR PARTS (OEM)	E	1	5	F	N	1	*	6,229	6,229	0	0	1/26/2017	C		9/4/2018
4400000230	AIRGAS USA LLC DBA FOR AIRGAS INC 84 KARNER RD ALBANY, NY 12205-4730 US	COMPRESSED AIR	E	B	5	N	N	1		5,000	967	226	4,033	2/8/2017	C		2/7/2018
4400000283	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		35,000	31,403	21,398	3,597	2/14/2017	C		12/18/2018
4400000285	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		70,000	63,705	41,067	6,295	2/14/2017	C		12/18/2018
4400000303	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		5,000	0	0	5,000	2/17/2017	C		8/30/2018

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4400000320	PECKHAM MATERIALS CORP PECKHAM INDUSTRIES INC (PARENT) UNION ST ATHENS, NY 12015 US	FINE AND COARSE AGGREGATES	E	B	7	N	N	1		40,000	19,514	722	20,486	2/21/2017	C		4/14/2018
4400000337	NOBLE GAS SOLUTIONS 10 ERIE BLVD STE 1 ALBANY, NY 12204-2523 US	OXYGEN AND ACETYLENE	E	B	7	N	N	1		10,097	5,533	1,104	4,564	2/23/2017	C		12/31/2018
4400000371	MODERN DISPOSAL SERVICES INC PO BOX 209 MODEL CITY, NY 14107-0209 US	DUMPING CHARGES	E	B	5	N	N	1		6,236	6,236	100	0	2/28/2017	C		2/27/2018
4400000373	BENTLEY SYSTEMS INC 685 STOCKTON DR EXTON, PA 19341-1151 US	MAINTENANCE - STAAD SOFTWARE	S	B	6	N	N	1		10,442	10,442	0	0	1/31/2017	C		1/30/2018
4400000437	AMSEC ENGINEERING OF NEW YORK PC DBA AENY 112 W 34TH ST FL 18 NEW YORK, NY 10120-0001 US	VESSEL ASSESSMENT AND LONG RANGE PLANNING	P	B		N	N	3		299,724	299,724	0	0	3/10/2017	C		3/9/2018
4400000456	STONE INDUSTRIES LLC STONE PORTABLE TOILET RENTALS 4305 ROUTE 50 SARATOGA SPRINGS, NY 12866-2914 US	PORTABLE TOILET SERVICES	S	B	7	N	N	1		17,500	11,250	500	6,250	3/16/2017	C		3/14/2018
4400000509	WASTE MANAGEMENT LLC 1661 MOUNT READ BLVD ROCHESTER, NY 14606 US	RUBBISH REMOVAL	S	B	5	N	N	1		8,000	5,907	3,956	2,093	1/1/2018	O	2/1/2019	
4400000514	BARRE STONE PRODUCTS INC 14120 W LEE RD ALBION, NY 14411 US	STONE	E	B	7	N	N	1		75,000	60,912	192	14,088	1/1/2017	C		12/17/2018
4400000540	NEW YORK STATE THRUWAY AUTHORITY 200 SOUTHERN BLVD ALBANY, NY 12209-2018 US	THRUWAY TSA, HR-8, E-ZPASS PLUS COST OF TOLLS	S	1	9	N	N	1		9,996	0	0	9,996	1/1/2017	C		12/30/2018
4400000642	EMPIRE CRANE CO LLC 7021 PERFORMANCE DR NORTH SYRACUSE, NY 13212 US	CRANE REPAIR	S	2	5	N	N	1		6,887	0	0	6,887	4/14/2017	C		4/13/2018
4400000685	SOUDER'S LLC SOUDERS PROMOTIONS 26 F CONGRESS ST NO 263 SARATOGA SPRINGS, NY 12866 US	MARKETING ITEMS	E	M	6	N	N	1		5,465	5,415	0	50	4/20/2017	C		4/18/2018
4400000709	HANSON AGGREGATES NEW YORK LLC 4800 JAMESVILLE RD PO BOX 513 JAMESVILLE, NY 13078 US	SAND, STONE, AND GRAVEL	E	B	7	N	N	1		5,000	212	0	4,788	1/1/2017	O	4/14/2021	
4400000715	E J WARD INC 8801 TRADEWAY ST SAN ANTONIO, TX 78217-6197 US	FUEL	S	B	7	N	N	1		211,183	188,720	102,482	22,463	4/25/2017	C		4/24/2018
4400000749	CDW G INC 230 N MILWAUKEE AVE VERNON HILLS, IL 60061-4304 US	RSA LICENSES AND ENHANCED SUPPORT	S	B	7	N	N	1		9,585	9,585	0	0	5/3/2017	C		1/2/2018
4400000791	MICROSOFT CORP 3000 BAYPORT DR - STE 480 TAMPA, FL 33607 US	MICROSOFT PREMIER SUPPORT	S	B	7	N	N	1		32,920	32,920	0	0	6/28/2017	C		6/27/2018

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4400000823	HANSON AGGREGATES NEW YORK LLC 4800 JAMESVILLE RD PO BOX 513 JAMESVILLE, NY 13078 US	SAND, STONE, AND GRAVEL	E	B	7	N	N	1		10,000	9,357	3,206	643	5/24/2017	C		12/31/2018
4400000865	BETTER POWER INC 508 WHITE SPRUCE BLVD SOUTHVIEW COM ROCHESTER, NY 14623 US	TOWABLE GENERATOR	E	B	7	N	03	1		46,707	46,707	0	0	5/25/2017	C		5/24/2018
4400000886	TRADEBE TREATMENT & RECYCLING NORTH TRADEBE ENVIRONMENTAL SERVICES LLC 47 GRACEY AVE MERIDEN, CT 06450-0902 US	HAZARDOUS WASTE REMOVAL	S	B	5	F	N	1		5,100	5,066	0	34	10/11/2017	C		1/31/2018
4400000913	WASTE MANAGEMENT LLC 2003 BLEEKER ST UTICA, NY 13501 US	RUBBISH REMOVAL	S	B	7	N	N	1		8,000	6,550	5,406	1,450	4/30/2018	C		6/29/2018
4400000920	JOSEPH M BRESS PO BOX 5680 WASHINGTON, DC 20016-1280 US	LABOR NEGOTIATION SERVICES	P	1	5	F	N	1		35,000	4,131	3,886	30,869	6/1/2017	C		5/31/2018
4400000957	FIVE STAR EQUIPMENT INC 6500 E TAFT RD EAST SYRACUSE, NY 13057 US	PARTS FOR PAD SWAP	E	C	5	N	N	3		11,152	10,208	0	944	6/16/2017	C		6/14/2018
4400000980	RICOH USA INC 2500 WESTCHESTER AVE - STE 113 PURCHASE, NY 10577-2515 US	RICOH MP 4504 PRINTER	H	B	7	F	N	1		11,172	11,172	11,172	0	6/19/2017	C		2/20/2018
4400000984	MILLER MARQUART LUMBER CO LLC 35 INDUSTRIAL DR NORTH TONAWANDA, NY 14120-3244 US	LUMBER	E	B	5	N	N	1		8,107	8,107	0	0	7/12/2017	C		12/31/2018
4400001040	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	CARGO VAN	E	B	7	N	N	2		26,185	26,185	26,185	0	6/1/2017	C		12/31/2018
4400001043	J C EHRLICH CO INC BUFFALO EXTERMINATING - RENTOKIL-IN 6300 COLLETT RD W FARMINGTON, NY 14424 US	VEGETATION MANAGEMENT AND EXTERMINATION	S	C	5	N	N	3		7,900	7,867	696	33	11/15/2017	C		6/30/2018
4400001046	NORTH ATLANTIC POWER DBA FOR GREAT LAKES POWER SERVICE C 15 CONTINENTAL DR EXETER, NH 03833-4564 US	MOUNTAIN GOAT CHIPPER PARTS	E	C	5	F	N	2	*	6,577	6,577	0	0	6/30/2017	C		6/18/2018
4400001049	ELLICOTT DREDGES LLC ELLICOTT DREDGE ENTERPRISES LLC, EL 1425 WICOMICO ST BALTIMORE, MD 21230 US	ELECTRICAL WORK FOR ELLICOTT DREDGE	S	1	5	F	N	1		39,074	39,074	0	0	7/6/2017	C		7/4/2018
4400001061	BARTON & LOGUIDICE DPC 443 ELECTRONICS PKWY LIVERPOOL, NY 13088-6056 US	MS4 STORMWATER PROJECT	P	B		N	N	7		64,300	47,034	22,619	17,266	11/20/2017	C		11/19/2018

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4400001067	HANSON AGGREGATES NEW YORK LLC 4800 JAMESVILLE RD PO BOX 513 JAMESVILLE, NY 13078 US	STONE	E	B	7	N	N	1		45,000	38,942	16,174	6,058	7/1/2017	C		7/11/2018
4400001114	BARRETT PAVING MATERIALS INC 4530 WETZEL RD LIVERPOOL, NY 13090-2517 US	STONE	E	B	7	N	N	1		7,000	5,282	0	1,718	11/21/2017	O	4/14/2021	
4400001119	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	LICENSES FOR VSP G400 - G600 REPLICATION	E	B	7	N	04	3		14,026	14,026	0	0	7/24/2017	C		7/23/2018
4400001156	CRANE-HOGAN STRUCTURAL SYSTEMS INC 3001 BROCKPORT RD SPENCERPORT, NY 14559 US	LOCK O-7 REHABILITATION	C	B		N	02	6		24,888,446	12,481,141	11,209,036	12,407,305	7/25/2017	O	6/26/2020	
4400001165	DHI WATER AND ENVIRONMENT 141 UNION BLVD STE 250 LAKEWOOD, CO 80228-2206 US	MAINTENANCE - SHI MIKE DATA MANAGEMENT	S	1		N	N	1		53,487	53,487	0	0	7/1/2017	C		6/30/2018
4400001178	MILLER MARQUART LUMBER CO LLC 35 INDUSTRIAL DR NORTH TONAWANDA, NY 14120-3244 US	LUMBER	E	B	5	N	N	1		10,868	10,868	10,868	0	1/1/2017	C		9/30/2018
4400001179	SISCO MARINE LLC MARINE INLAND FABRICATIONS 1725 BUCHANAN ST PANAMA CITY, FL 32409-1482 US	PUSH BOATS	E	B		F	N	1		564,602	564,602	189,602	0	10/13/2017	C		5/31/2018
4400001188	COMET FLASHER INC 1 BABCOCK ST BUFFALO, NY 14210-2250 US	SIGNAGE FOR GASPORT	E	B	5	N	N	3		5,260	5,260	5,260	0	8/9/2017	C		7/31/2018
4400001207	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	RAM 3500	E	B	7	N	N	1		50,504	50,504	50,504	0	8/10/2017	C		2/28/2018
4400001208	FLEET MAINTENANCE INC 67 RANSIER DR WEST SENECA, NY 14224-2290 US	WESTERN STAR 4900	E	B	7	N	03	1		177,827	177,827	177,827	0	7/25/2017	C		2/28/2018
4400001220	CORE & MAIN LP 14 ARCH ST WATERVLIET, NY 12189 US	HDPE PIPE	E	B	5	N	N	3	*	33,250	33,250	33,250	0	8/11/2017	C		1/1/2018
4400001226	MOHAWK VALLEY MATERIALS INC 9788 RIVER RD MARCY, NY 13403-2049 US	VEGETATION MANAGEMENT	C	B		N	03	2		2,386,382	1,283,544	138,245	1,102,838	10/16/2017	C		6/29/2018
4400001240	MILLER MARQUART LUMBER CO LLC 35 INDUSTRIAL DR NORTH TONAWANDA, NY 14120-3244 US	LUMBER	E	B	5	N	N	1		7,478	7,478	7,478	0	1/1/2017	C		12/31/2018
4400001243	ABELE TRACTOR & EQUIP CO INC 72 EVERETT RD ALBANY, NY 12205-1499 US	GRAPPLE	E	B	5	N	N	1		13,755	13,755	0	0	7/1/2017	C		1/31/2018
4400001244	TIME WARNER CABLE INC 20 CENTURY HILL DR LATHAM, NY 12110-2116 US	TIME WARNER ETHERNET	S	B	7	N	N	1		1,038,986	219,506	158,151	819,480	8/18/2017	O	7/30/2023	
4400001245	C H BURKDORF & SON INC 35 HOUGH ST ST JOHNSVILLE, NY 13452-1241 US	ROOFING SUPPLIES	E	B	5	N	N	3		6,527	6,527	0	0	8/18/2017	C		12/31/2018

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4400001251	SOUTHWORTH-MILTON INC 500 COMMERCE DR CLIFTON PARK, NY 12065 US	WHEEL LOADER	E	B	7	N	N	1		448,365	448,365	448,365	0	8/18/2017	C		12/31/2018
4400001254	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	FLOOD WARNING OPTIMIZATION SYSTEM	P	2	8	N	N	1		443,991	405,197	146,355	38,794	1/1/2017	C		2/28/2018
4400001261	DELOITTE & TOUCHE LLP 4022 SELLS DR HERMITAGE, TN 37076-2903 US	INTERNAL AUDIT COSOURCE	P	B		N	N	4		1,005,780	977,931	510,945	27,849	8/22/2017	C		4/30/2018
4400001278	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	CANAL GIS INTEGRATION AND HOSTING SERVICES	S	2	8	N	N	1		185,921	89,742	86,400	96,179	10/20/2016	O	12/31/2019	
4400001284	DELL MARKETING LP C/O DELL USA LP ONE DELL WAY MS RR3-58 ROUND ROCK, TX 78664-7000 US	MICROSOFT LICENSES	E	B	7	F	N	1		561,670	373,115	187,223	188,555	8/28/2017	O	8/31/2020	
4400001323	ERIE COUNTY SHERIFF'S OFFICE 10 DELAWARE AVE BUFFALO, NY 14202 US	MARINE PATROL	S	1	9	N	N	1		40,000	32,591	32,591	7,409	4/1/2017	C		3/31/2018
4400001325	COUNTY OF MADISON 138 N COURT ST PO BOX 665 WAMPSVILLE, NY 13163 US	MARINE PATROL	S	1	9	N	N	1		39,509	0	0	39,509	4/1/2017	C		3/31/2018
4400001326	COUNTY OF MONROE 130 S PLYMOUTH AVE ROCHESTER, NY 14614 US	MARINE PATROL	S	1	9	N	N	1		39,424	38,552	38,552	872	4/1/2017	C		3/31/2018
4400001327	NIAGARA COUNTY SHERIFF'S OFFICE 5526 NIAGARA ST EXT LOCKPORT, NY 14095 US	MARINE PATROL	S	1	9	N	N	1		40,000	0	0	40,000	4/1/2017	C		3/31/2018
4400001328	COUNTY OF ONEIDA 6065 JUDD RD ORISKANY, NY 13424 US	MARINE PATROL	S	1	9	N	N	1		40,000	0	0	40,000	4/1/2017	C		3/31/2018
4400001329	ONONDAGA COUNTY SHERIFF'S OFFICE 407 SOUTH STATE ST SYRACUSE, NY 13202 US	MARINE PATROL	S	1	9	N	N	1		40,000	0	0	40,000	4/1/2017	C		3/31/2018
4400001330	ORLEANS COUNTY SHERIFF'S OFFICE 13925 STATE ROUTE 31 ALBION, NY 14411 US	MARINE PATROL	S	1	9	N	N	1		10,000	9,282	9,282	718	4/1/2017	C		3/31/2018
4400001331	OSWEGO COUNTY SHERIFF'S OFFICE 39 CHURCHILL ROAD OSWEGO, NY 13126 US	MARINE PATROL	S	1	9	N	N	1		40,000	0	0	40,000	4/1/2017	C		3/31/2018
4400001332	COUNTY OF SCHENECTADY 620 STATE ST SCHENECTADY, NY 12305 US	MARINE PATROL	S	1	9	N	N	1		40,000	0	0	40,000	4/1/2017	C		3/31/2018
4400001333	COUNTY OF WASHINGTON 383 BROADWAY FORT EDWARD, NY 12828 US	MARINE PATROL	S	1	9	N	N	1		10,620	0	0	10,620	4/1/2017	C		3/31/2018
4400001334	A E Y ENTERPRISES INC 1607 COMMONS PKWY MACEDON, NY 14502-9191 US	PAVING	C	B	5	N	N	3		37,368	37,368	0	0	9/8/2017	C		3/31/2018
4400001375	SHELBY CRUSHED STONE INC 10830 BLAIR RD MEDINA, NY 14103 US	STONE, CRUSHED	E	B	7	N	N	1		9,250	727	394	8,523	9/15/2017	C		9/14/2018

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4400001382	BONDED CONCRETE INC PO BOX 189 303 WATERVLIET RD WATERVLIET, NY 12189 US	CONCRETE	E	B	7	N	N	1		25,921	25,921	0	0	11/30/2017	C		11/29/2018
4400001387	TRACEY ROAD EQUIPMENT INC 6803 MANLIUS CENTER RD EAST SYRACUSE, NY 13057-3904 US	EXCAVATOR RENTAL	E	B	7	N	N	1		6,691	0	0	6,691	8/1/2017	C		1/31/2018
4400001394	MILLER MARQUART LUMBER CO LLC 35 INDUSTRIAL DR NORTH TONAWANDA, NY 14120-3244 US	LUMBER	E	B	5	N	N	1		7,460	7,460	0	0	12/6/2016	C		12/31/2018
4400001402	JONS JOHNS PORTABLE TOILETS WEBER SEPTIC & SEWER SERVICE INC 896 WARREN RD MOHAWK, NY 13407 US	PORT-O-JOHNS	E	B	5	N	N	1		5,300	5,212	3,622	88	11/1/2017	C		9/29/2018
4400001475	MILLER MARQUART LUMBER CO LLC 35 INDUSTRIAL DR NORTH TONAWANDA, NY 14120-3244 US	LUMBER	E	B	5	N	N	1		24,428	24,428	24,428	0	1/1/2017	C		12/31/2018
4400001501	TRACEY ROAD EQUIP INC 6803 MANLIUS CENTER RD EAST SYRACUSE, NY 13057 US	TRAILER RENTAL	E	B	5	N	N	3		24,000	24,000	24,000	0	10/11/2017	C		4/30/2018
4400001515	MACLEODS LUMBER & HARDWARE INC PO BOX 217 WHITEHALL, NY 12887-0217 US	LUMBER	E	B	5	N	N	3		8,500	8,500	8,500	0	10/13/2017	C		1/31/2018
4400001533	LYRIS INC 401 CONGRESS AVE - STE 2650 AUSTIN, TX 78701-3708 US	NOTICE TO MARINERS SOFTWARE	E	2	5	F	N	1		34,940	34,940	0	0	10/18/2017	C		9/30/2018
4400001566	C P WARD INC 100 RIVER RD PO BOX 900 SCOTTSVILLE, NY 14546 US	CULVERT CLEANING AND INSPECTION	C	B		N	N	2		374,739	335,338	33,562	39,401	11/30/2017	C		4/3/2018
4400001571	C P WARD INC 100 RIVER RD PO BOX 900 SCOTTSVILLE, NY 14546 US	CULVERT CLEANING AND INSPECTION	C	B		N	N	2		347,984	275,698	138,710	72,286	11/30/2017	C		2/27/2018
4400001590	MILLER MARQUART LUMBER CO LLC 35 INDUSTRIAL DR NORTH TONAWANDA, NY 14120-3244 US	LUMBER	E	B	7	N	N	3		7,906	2,266	2,266	5,640	10/31/2017	C		7/31/2018
4400001594	VANTAGE EQUIPMENT LLC 5985 COURT STREET RD SYRACUSE, NY 13206-1707 US	HAUL TRUCK RENTAL	E	B	7	N	N	1		9,700	9,700	9,700	0	11/1/2017	C		1/31/2018
4400001602	STEPHENSON EQUIPMENT INC 6018 DROTT DR EAST SYRACUSE, NY 13057-2998 US	CRANE RENTAL	E	B	7	N	N	4		36,400	36,400	36,400	0	11/1/2017	C		4/30/2018
4400001606	ELLICOTT DREDGES LLC ELLICOTT DREDGE ENTERPRISES LLC, EL 1425 WICOMICO ST BALTIMORE, MD 21230 US	HYDRAULIC DREDGE	E	B		F	N	2		2,620,650	1,800,000	800,000	820,650	11/6/2017	C		6/30/2018

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4400001638	ELLICOTT DREDGES LLC ELLICOTT DREDGE ENTERPRISES LLC, EL 1425 WICOMICO ST BALTIMORE, MD 21230 US	ELLICOTT PARTS	E	2	5	F	N	1		45,478	45,478	45,478	0	11/7/2017	C		1/30/2018
4400001640	MOHAWK VALLEY MATERIALS INC 9788 RIVER RD MARCY, NY 13403-2049 US	BOND PAYMENT	E	B	5	N	03	1		24,562	24,562	0	0	11/8/2017	C		7/31/2018
4400001649	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	FLEET	E	B	7	N	N	1		36,188	36,188	0	0	12/4/2017	C		12/3/2018
4400001659	PITTSBURGH FOUNDRY & MACHINE CO 20 36TH ST PITTSBURGH, PA 15201 US	STEEL CASTINGS	E	B	7	F	N	1		56,545	55,980	55,980	565	11/15/2017	C		6/1/2018
4400001666	ATLANTIC FLUID POWER INC ATLANTIC HYDRAULIC SYSTEMS INC 90 PRECISION DR SHIRLEY, NY 11967-4702 US	HYDRAULIC PARTS	E	B		N	N	5		24,636	24,636	24,636	0	11/16/2017	C		1/31/2018
4400001673	NRC NY ENVIRONMENTAL SERVICES INC 1260 SCOTTSVILLE RD STE 102 ROCHESTER, NY 14624 US	SPILL CLEANUP	S	C	1	N	N	1		30,000	15,227	15,227	14,773	11/16/2017	C		1/30/2018
4400001675	ATLANTIC FLUID POWER INC ATLANTIC HYDRAULIC SYSTEMS INC 90 PRECISION DR SHIRLEY, NY 11967-4702 US	VALVE HPU	E	B		N	N	5		24,636	24,636	24,636	0	11/16/2017	C		1/31/2018
4400001676	DIVAL SAFETY EQUIPMENT INC 1721 NIAGARA ST BUFFALO, NY 14207-3108 US	AED SYSTEMS	E	B	7	N	N	1		61,123	61,123	0	0	11/20/2017	C		1/31/2018
4400001679	ATLANTIC FLUID POWER INC ATLANTIC HYDRAULIC SYSTEMS INC 90 PRECISION DR SHIRLEY, NY 11967-4702 US	GATE HPU	E	B		N	N	4		203,491	203,491	203,491	0	11/16/2017	C		1/31/2018
4400001680	ATLANTIC FLUID POWER INC ATLANTIC HYDRAULIC SYSTEMS INC 90 PRECISION DR SHIRLEY, NY 11967-4702 US	GATE HPU	E	B	8	N	N	4		203,491	203,491	203,491	0	11/16/2017	C		1/31/2018
4400001687	POSEIDON BARGE LTD 3101 NEW HAVEN AVE FORT WAYNE, IN 46803-2744 US	PRE ENGINEERED BARGE SYSTEM FOR THE UTICA CANAL CORP	E	B		F	N	2		101,573	101,573	101,573	0	12/8/2017	C		5/11/2018
4400001693	POSEIDON BARGE LTD 3101 NEW HAVEN AVE FORT WAYNE, IN 46803-2744 US	FLEXIFLOATS FOR FONDA CANAL LOCATION	E	B		F	N	2		438,453	438,453	438,453	0	12/5/2017	C		4/1/2018
4400001694	STEPHENSON EQUIPMENT INC 1886 DUANESBURG RD DUANESBURG, NY 12056 US	CRANE RENTAL	E	B	7	N	N	1		60,600	60,600	46,800	0	11/20/2017	C		3/30/2018

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4400001710	ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE INC 380 NEW YORK ST REDLANDS, CA 92373-8100 US	MAINTENANCE - ARC GIS	S	B	7	N	N	1		18,506	13,805	13,805	4,701	11/18/2017	C		11/17/2018
4400001715	ELLICOTT DREDGES LLC ELLICOTT DREDGE ENTERPRISES LLC, EL 1425 WICOMICO ST BALTIMORE, MD 21230 US	SUCTION HOSE PARTS	E	2	5	F	N	1		7,747	7,747	7,747	0	11/27/2017	C		4/30/2018
4400001716	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	MAINTENANCE - ACCELA SOFTWARE	S	B	7	N	N	1		65,303	34,803	34,803	30,500	11/8/2017	C		11/7/2018
4400001734	HP INC 1501 PAGE MILL RD PALO ALTO, CA 94304-1126 US	HP ELITEBOOK LAPTOPS WITH MAINTENANCE, CASES	E	B	7	F	N	1		62,604	62,604	62,284	0	12/1/2017	C		1/12/2018
4400001739	HYPACK INC 56 BRADLEY ST MIDDLETOWN, CT 06457 US	DREDGEPACK MONITORING SOFTWARE	I	1	6	F	N	1		33,045	31,579	31,579	1,466	12/4/2017	C		1/1/2018
4400001741	STRATEGIC RESPONSE INITIATIVES LLC 44 DALLIBA AVE STE 204 WATERVLIET, NY 12189-4017 US	FLAMMABLE CABINETS	E	B	7	N	02	1		46,082	46,082	0	0	12/4/2017	C		12/31/2018
4400001764	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	LICENSES AND MAINTENANCE	E	B	6	N	N	3		13,335	13,335	13,335	0	12/8/2017	C		12/7/2018
4400001769	RIG ALL INC 2322 BROAD ST FRANKFORT, NY 13340 US	CRANE RENTAL	E	C	5	N	N	1		7,420	7,420	7,420	0	12/7/2017	C		1/31/2018
4400001770	RIG ALL INC 2322 BROAD ST FRANKFORT, NY 13340 US	CRANE RENTAL	E	C	5	N	N	1		7,420	7,420	7,420	0	12/7/2017	C		4/30/2018
4400001775	QUALITY TOOL & EQUIPMENT INC BEST BUY AUTO EQUIPMENT 42660 RIO NEDO TEMECULA, CA 92590-3710 US	TIRE BALANCER FOR ALBION	E	B	5	F	N	3		8,150	8,150	8,150	0	12/8/2017	C		1/26/2018
4400001780	TRADEBE ENVIRONMENTAL SERVICES LLC 47 GRACEY MERIDEN, CT 06451 US	NON HAZARDOUS WASTE REMOVAL	S	C	5	N	N	1		5,548	5,548	5,548	0	12/11/2017	C		3/20/2018
4400001782	HANES SUPPLY INC RAILROAD AVE COLONIE, NY 12205 US	PORTABLE GANTRY	E	B	5	N	N	3		5,478	5,478	5,478	0	12/11/2017	C		1/31/2018
4400001789	PUMP SERVICE AND SUPPLY OF TROY INC 1 REGATTA PLACE TROY, NY 12180-1229 US	DEWATERING PUMP OUT	E	C	5	N	01	3		10,500	3,000	3,000	7,500	12/12/2017	C		5/30/2018
4400001791	MOBILE MINI INC 1353 INDIAN FIELDS RD FEURA BUSH, NY 12067-1707 US	MINI STORAGE	E	C	5	N	N	3		16,146	16,146	16,146	0	12/12/2017	C		1/31/2018
4400001792	MOBILE MINI INC 1353 INDIAN FIELDS RD FEURA BUSH, NY 12067-1707 US	MOBIL MINI	E	C	5	N	N	3		16,146	16,146	16,146	0	12/12/2017	C		1/31/2018

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4400001803	ENTERPRISE HOLDINGS INC DBA ENTPERPRISE RENT A TRUCK 1320 BROOKS AVE ROCHESTER, NY 14624-3116 US	AUTO RENTALS	E	B	7	N	N	1		73,000	65,179	65,179	7,821	1/1/2018	O	10/18/2019	
4400001809	MILLERS ISLAND PROPELLER INC 2200 SPARROWS POINT RD BALTIMORE, MD 21219-1743 US	PROPELLER FOR SYRACUSE CANAL	E	B	5	F	N	3		5,947	5,947	5,947	0	12/19/2017	C		12/18/2018
4400001818	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	MAINTENANCE - SAP	S	B	7	N	N	1		36,633	36,633	36,633	0	1/1/2018	C		1/31/2018
4400001824	ADMAR SUPPLY CO INC STE 1 1950 BRIGHTON HENRIETTA TL RD ROCHESTER, NY 14623-2597 US	4 MONTH RENTAL AGREEMENT FOR BOOM LIFT AND AIR COMPRESSOR LOCKE 4	E	B	7	N	N	1		11,541	11,521	11,521	20	12/27/2017	C		4/29/2018
4400001827	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	EARTHQUAKE DETECTION AND MONITORING TOOL HOSTING AND SERVICES	S	2	8	N	N	1		190,428	60,855	60,855	129,573	1/1/2018	O	12/31/2019	
4400001834	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	CANAL INTEGRATION-PERMIT ISSUANCE APPLICATION	P	B	7	N	N	1		126,500	118,596	118,596	7,904	8/21/2017	C		8/21/2018
4400001836	TRADEBE ENVIRONMENTAL SERVICES LLC 47 GRACEY MERIDEN, CT 06451 US	NON HAZARDOUS WASTE REMOVAL	S	C	6	F	N	1		5,076	5,076	5,076	0	1/3/2018	C		4/30/2018
4400001844	US DEPT OF AGRICULTURE ANIMAL & PLANT HEALTH INSPECTION PO BOX 979043 ST LOUIS, MO 63197-9000 US	USDA PRIMAL AND PLANT HEALTH INSPECTION SERVICES	S	B	7	N	N	1		243,516	51,095	51,095	192,421	1/1/2017	O	12/31/2019	
4400001852	STONE INDUSTRIES LLC STONE PORTABLE TOILET RENTALS 4305 ROUTE 50 SARATOGA SPRINGS, NY 12866-2914 US	PORTABLE TOILET RENTALS	E	B	5	N	N	1		5,558	5,200	5,200	358	1/3/2018	C		12/31/2018
4400001861	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	CABLES AND ACCESSORIES	E	B		N	N	1		106,073	106,073	106,073	0	1/10/2018	C		12/31/2018
4400001863	HANSON AGGREGATES NEW YORK LLC 4800 JAMESVILLE RD PO BOX 513 JAMESVILLE, NY 13078 US	AGGREGATES	E	B	6	N	N	1		15,000	11,069	11,069	3,931	1/1/2018	O	4/14/2021	
4400001867	UNITED RENTALS (NORTH AMERICA) INC UNITED RENTALS 7178 SCHUYLER RD EAST SYRACUSE, NY 13057-9743 US	TOILET RENTALS	E	B	5	N	N	1		10,000	6,500	6,500	3,500	1/1/2018	O	10/20/2019	
4400001870	STONE INDUSTRIES LLC STONE PORTABLE TOILET RENTALS 4305 ROUTE 50 SARATOGA SPRINGS, NY 12866-2914 US	TOILET RENTALS	E	B	5	N	N	1		8,158	7,280	7,280	878	1/3/2018	C		12/31/2018

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4400001871	NOBLE GAS SOLUTIONS 10 ERIE BLVD STE 1 ALBANY, NY 12204-2523 US	COMPRESSED GAS	E	B	7	N	N	1		5,339	4,246	4,246	1,093	1/1/2018	C		12/31/2018
4400001873	THORPE ELECTRIC SUPPLY NC 27 WASHINGTON ST RENSSELAER, NY 12144 US	ELEC SUPPLIES	E	B	5	N	N	1		5,010	5,010	5,010	0	1/1/2018	C		12/31/2018
4400001875	STONE INDUSTRIES LLC STONE PORTABLE TOILET RENTALS 4305 ROUTE 50 SARATOGA SPRINGS, NY 12866-2914 US	TOILET RENTAL	E	B	5	N	N	1		16,280	7,280	7,280	9,000	1/1/2018	O	4/30/2020	
4400001876	NOBLE GAS SOLUTIONS 10 ERIE BLVD STE 1 ALBANY, NY 12204-2523 US	RENTAL OF CYLINDERS	E	B	5	N	N	1		5,559	5,218	5,218	341	1/10/2018	C		12/31/2018
4400001881	PECKHAM MATERIALS CORP PECKHAM INDUSTRIES INC (PARENT) UNION ST ATHENS, NY 12015 US	GRAVEL	E	B	7	N	N	1		40,000	797	797	39,203	1/1/2018	O	4/14/2021	
4400001892	HERMAN MILLER INC C/O ACCENT COMM FURNITURE INC 855 E MAIN AVE ZEELAND, MI 49464-1372 US	OFFICE RELOCATION AND FURNITURE	E	B	7	N	N	1		76,066	76,066	76,066	0	1/10/2018	C		6/30/2018
4400001933	NOMAR ENTERPRISE LLC DBA RUGGED DEPOT 27060 DECKER PRARIE ROSHEILL RD MAGNOLIA, TX 77355-8437 US	PANASONIC CF-53 TOUGHBOOK AND SMARTCARD KIT	H	2	6	F	N	1		11,482	11,470	11,470	12	1/20/2018	C		2/2/2018
4400001934	MARTIN PILING & LUMBER CO 100 DAVIDSON AVE SUITE 109 SOMERSET, NJ 08873 US	LUMBER	E	B	5	N	N	2		11,277	11,277	11,277	0	1/22/2018	C		3/30/2018
4400001945	BENTLEY SYSTEMS INC 685 STOCKTON DR EXTON, PA 19341-1151 US	MAINTENANCE - BENTLEY SOFTWARE	S	B	7	N	N	1		15,318	15,318	15,318	0	1/31/2018	O	1/30/2019	
4400001955	UNITED UNIFORM DISTRIBUTION LLC SUBSIDIARY OF SAFARILAND LLC 495 N FRENCH RD BUFFALO, NY 14228-2124 US	UNIFORMS	E	B	5	N	N	1		9,300	3,329	3,329	5,971	1/24/2018	O	12/31/2019	
4400001958	UNITED UNIFORM DISTRIBUTION LLC SUBSIDIARY OF SAFARILAND LLC 495 N FRENCH RD BUFFALO, NY 14228-2124 US	UNIFORMS	E	B	5	N	N	1		9,000	4,498	4,498	4,502	1/24/2018	O	12/31/2019	
4400001975	CUSHING STONE CO INC 725 STATE HIGHWAY 5S AMSTERDAM, NY 12010-7669 US	SAND, STONE, AND GRAVEL	E	B	5	N	N	1		28,500	9,996	9,996	18,504	1/25/2018	O	4/14/2021	
4400001997	R M LILL INC 1263 RTE 9 CASTLETON, NY 12033 US	SANDBLASTING	S	B	5	N	N	3		6,660	6,660	6,660	0	1/31/2018	C		2/20/2018
4400001998	BENTLEY SYSTEMS INC 685 STOCKTON DR EXTON, PA 19341-1151 US	PROJECTWISE	E	2	5	F	N	1		22,500	19,500	19,500	3,000	2/1/2018	C		12/31/2018
4400002019	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	CRANE BASKET FOR CRANE LIFT TO ALBION LOCATION ALBION WILL PICK UP FROM VENDOR	E	C	5	N	N	3		8,450	8,450	8,450	0	2/4/2018	C		2/28/2018

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4400002020	BURT CRANE & RIGGING DBA FOR SCHEIB CORP 5 VETERANS MEMORIAL DR GREEN ISLAND, NY 12183 US	CRANE RENTAL	E	M	5	N	03	3		48,496	47,705	47,705	791	2/5/2018	C		6/30/2018
4400002030	JOHN M MULLINS RIGGING & HAULING INC 1 PINE ST GREEN ISLAND, NY 12183-1005 US	CRANE REMOVAL	S	B	5	N	N	3		14,200	14,200	14,200	0	2/6/2018	C		3/31/2018
4400002031	CARVER CONSTRUCTION INC 494 WESTERN TPKE STE 1 ALTAMONT, NY 12009-2095 US	CANAL: TRAILWAY PROJECT FORT HERKIMER TO LOCK E-18	C	B		N	N	9		3,338,334	3,286,356	3,286,356	51,978	3/1/2018	O	5/31/2019	
4400002034	BLUE OX ROOFING DBA FOR RJM ROOFING INC 2139 LOCKPORT RD NIAGARA FALLS, NY 14304-1108 US	ROOF REPAIR	S	C	5	N	N	4		9,073	9,073	9,073	0	2/8/2018	C		4/30/2018
4400002037	NAYLOR PIPE COMPANY 1230 E 92ND ST CHICAGO, IL 60619-7997 US	NAYLOR PIPE COUPLINGS FOR LYONS CANALS LOCATION	E	B	6	N	N	1		6,647	6,647	6,647	0	2/8/2018	C		4/30/2018
4400002043	HP INC 1501 PAGE MILL RD PALO ALTO, CA 94304-1126 US	IT HARDWARE	E	B	7	N	N	1		5,480	995	995	4,485	2/8/2018	C		3/31/2018
4400002049	STONE INDUSTRIES LLC STONE PORTABLE TOILET RENTALS 4305 ROUTE 50 SARATOGA SPRINGS, NY 12866-2914 US	CANALS - T-14160 PORTABLE TOILET RENTAL LYONS	E	B	5	N	N	1		15,658	14,625	14,625	1,033	1/1/2018	O	4/30/2020	
4400002066	BARRETT MARINE INC 485 WEST RIVER RD WATERLOO, NY 13165-8726 US	OUTBOARD MOTOR	E	B	5	N	N	3		8,497	8,497	8,497	0	2/14/2018	C		2/28/2018
4400002084	MOHAWK VALLEY MATERIALS INC 9788 RIVER RD MARCY, NY 13403-2049 US	VEGETATION MANAGEMENT	C	B		N	03	2		65,044	65,044	65,044	0	2/16/2018	C		9/17/2018
4400002104	COUNTY WASTE & RECYCLING SERVICE IN 1927 ROUTE 9 PO BOX 431 CLIFTON PARK, NY 12065 US	RUBBISH REMOVAL	S	B	7	N	N	1		10,000	4,514	4,514	5,486	2/22/2018	O	12/31/2020	
4400002106	WASTE MANAGEMENT LLC 1661 MOUNT READ BLVD ROCHESTER, NY 14606 US	RUBBISH REMOVAL	S	B	7	N	N	1		25,000	16,415	16,415	8,585	2/22/2018	O	2/27/2019	
4400002107	BENTLEY SYSTEMS INC 685 STOCKTON DR EXTON, PA 19341-1151 US	MAINTENANCE - BENTLEY SOFTWARE	S	B	7	F	N	1		21,644	21,643	21,643	1	1/1/2018	C		12/31/2018
4400002119	PENNONI ASSOCIATES INC 3100 HORIZON DR STE 200 KING OF PRUSSIA, PA 19406-2660 US	BYPASS CULVERT CONSTRUCTION SHOP INSPECTION	P	B	5	F	N	1		13,877	13,877	13,877	0	2/27/2018	C		2/27/2018
4400002134	FRENCH CREEK MARINA LLC 250 WAHL ST CLAYTON, NY 13624-1408 US	YANMAR MARINE ENGINE	E	B	8	N	N	1		32,498	32,498	32,498	0	2/28/2018	C		3/31/2018
4400002141	SANDMANS RCD PO BOX 100 MANCHESTER, NY 14504 US	ELEANOR CREW BOAT RECONDITIONING AND REMOVAL OF LBP SOLE/	P	1	8	N	N	2		8,250	8,250	8,250	0	3/2/2018	C		4/2/2018
4400002161	DHI WATER AND ENVIRONMENT 141 UNION BLVD STE 250 LAKEWOOD, CO 80228-2206 US	FLOOD WARNING OPTIMIZATION SYSTEM GAP ANALYSIS	P	1	8	F	N	1		173,067	0	0	173,067	3/6/2018	C		12/31/2018

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4400002170	MOBILE MINI INC 1353 INDIAN FIELDS RD FEURA BUSH, NY 12067-1707 US	STORAGE CONTAINERS	E	B	5	N	N	3		5,298	5,298	5,298	0	3/8/2018	C		3/30/2018
4400002187	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	ACCELA CIVIC PLATFORM SILVER SUBSCRIPTION	I	B	7	N	N	1		12,677	12,677	12,677	0	3/19/2018	O	3/18/2019	
4400002208	CHRIS RAPP CRS MARINE SERVICE INC 2103 CHRISLER AVE SCHENECTADY, NY 12303-1520 US	OUTBOARD ENGINE	E	B	5	N	N	3		6,800	6,800	6,800	0	3/15/2018	C		9/18/2018
4400002210	TRACEY ROAD EQUIP INC 115 RAILROAD AVE ALBANY, NY 12205 US	TRAILER	E	B	7	N	N	1		35,904	35,904	35,904	0	3/15/2018	C		7/30/2018
4400002211	E & V ENERGY CORP 2097 ROUTE 14 GENEVA, NY 14456 US	CAST IRON BOILER WITH INSTALLATION	E	B	5	N	N	1		5,777	5,777	5,777	0	3/15/2018	C		4/30/2018
4400002216	WOODS CRW CORP PO BOX 1099 795 MARSHALL AVE WILLISTON, VT 05495 US	EQUIPMENT RENTAL	E	B	5	N	N	4		74,400	72,200	72,200	2,200	3/20/2018	C		5/31/2018
4400002219	WESCO INSURANCE COMPANY 800 SUPERIOR AVE E STE 2100 CLEVELAND, OH 44114-2601 US	PAID FAMILY LEAVE COVERAGE	P	2	8	N	N	1		5,000	0	0	5,000	3/20/2018	C		12/31/2018
4400002225	HAUN WELDING SUPPLY INC 728 BROAD ST UTICA, NY 13501 US	CANALS - WELDING EQ	E	C	5	N	N	1		6,500	4,337	4,337	2,163	3/20/2018	O	3/6/2019	
4400002234	TROY BOILER WORKS INC 2800 7TH AVE TROY, NY 12180-1587 US	REPLACEMENT OF MAIN CIRCULATION PUMP REPLACEMENT IN MACHINE SHOP	S	C	6	N	01	4		5,109	5,109	5,109	0	3/21/2018	C		3/30/2018
4400002239	EDBAUER CONSTRUCTION DBA FOR KELEMAN-BAUER CONSTRUCTION 2790 CLINTON ST WEST SENECA, NY 14224-1350 US	TRAIL AMHERST TO LOCKPORT PHASE 2	C	B		N	N	5		3,961,000	2,030,668	2,030,668	1,930,332	4/18/2018	O	6/28/2019	
4400002243	CIVES CORPORATION VIKING CIVES 14331 MILL ST HARRISVILLE, NY 13648 US	PLOW	E	B	5	N	N	1		5,950	5,950	5,950	0	3/22/2018	C		4/30/2018
4400002244	ALTEC INDUSTRIES INC PO BOX 11407 BIRMINGHAM, AL 35246-0414 US	BUCKET TRUCK	E	B	7	F	N	1		127,412	127,412	127,412	0	3/22/2018	C		7/31/2018
4400002245	ALTEC INDUSTRIES INC PO BOX 11407 BIRMINGHAM, AL 35246-0414 US	BUCKET TRUCK	E	B	7	F	N	1		127,412	127,412	127,412	0	3/22/2018	C		7/31/2018
4400002254	ROBERT GREEN AUTO & TRUCK INC 236 BRIDGEVILLE RD MONTICELLO, NY 12701-3853 US	SPREADER	E	B	5	N	N	3		14,144	14,144	14,144	0	3/23/2018	C		7/29/2018
4400002255	CAZENOVIA EQUIPMENT CO INC 8186 SENECA TPKE CLINTON, NY 13323 US	MARINE PARTS	E	B	5	N	N	3		12,362	0	0	12,362	3/23/2018	C		7/30/2018
4400002258	LAYER 3 TECHNOLOGIES INC 1645 LYELL AVE STE 200 ROCHESTER, NY 14606-2331 US	MAINTENANCE - SOPHOS	S	B	7	N	03	1		9,200	9,200	9,200	0	3/31/2018	O	3/30/2019	
4400002262	CIVES CORPORATION VIKING CIVES 14331 MILL ST HARRISVILLE, NY 13648 US	REVERSIBLE PLOW	E	B	5	N	N	1		6,000	6,000	6,000	0	3/27/2018	C		10/29/2018

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4400002263	ADMAR SUPPLY CO INC 878 ALBANY SHAKER RD LATHAM, NY 12110-1458 US	45' STRAIGHT BOOM LIFT	E	B	7	N	N	1		80,837	80,837	80,837	0	3/27/2018	C		9/30/2018
4400002264	ADMAR SUPPLY CO INC 878 ALBANY SHAKER RD LATHAM, NY 12110-1458 US	45' ARTICULATING BOOM LIFT	E	B	7	N	N	1		82,465	82,465	82,465	0	3/27/2018	C		9/18/2018
4400002273	PRIORITY CONNECTIONS LLC 6260 S BAY RD CICERO, NY 13039-8812 US	CARD ACCESS INSTALLATION DATABASE SECURITY SYSTEM	P	B	7	N	N	1		11,910	11,910	11,910	0	4/2/2018	C		4/2/2018
4400002284	FLEET MAINTENANCE INC 67 RANSIER DR WEST SENECA, NY 14224-2290 US	4900 CHASSIS	E	B	7	N	03	1		148,143	0	0	148,143	3/29/2018	C		12/31/2018
4400002289	FORT MILLER CO INC PO BOX 98 SCHUYLERVILLE, NY 12871 US	TRAFFIC BARRIERS FOR WATERFORD CANAL LOCATION	E	B	6	N	N	3		9,000	9,000	9,000	0	3/30/2018	C		4/30/2018
4400002291	ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE INC 380 NEW YORK ST REDLANDS, CA 92373-8100 US	MAINTENANCE - SOFTWARE	S	B	7	F	N	1		17,308	17,308	17,308	0	4/2/2018	O	4/1/2019	
4400002293	MIDWAY INDUSTRIAL SUPPLY INC PO BOX 303 - 51 WURZ AVE UTICA, NY 13503-0303 US	PAINT/TINT/ENAMEL	E	B	6	N	N	3		9,326	9,326	9,326	0	4/2/2018	C		6/29/2018
4400002299	AUTOMOTIVE RENTALS INC 40001 LEADENHALL RD MOUNT LAUREL, NJ 08054-4611 US	FLEET MAINTENANCE COST FOR NYS CANAL CORP	E	B	7	N	N	1		700,000	330,897	330,897	369,103	4/6/2018	O	2/2/2020	
4400002303	DELL MARKETING LP C/O DELL USA LP ONE DELL WAY MS RR3-58 ROUND ROCK, TX 78664-7000 US	MICROSOFT TRUE-UP LICENSES	I	B	7	N	N	1		48,503	48,503	48,503	0	4/9/2018	C		6/30/2018
4400002333	DEERE & COMPANY AG & TURF CBD & GOVERNMENT SALES 2000 JOHN DEERE RUN CARY, NC 27513-2789 US	JD TRACTORS	E	B	7	N	N	1		207,801	207,801	207,801	0	4/13/2018	C		8/1/2018
4400002335	DEERE & COMPANY AG & TURF CBD & GOVERNMENT SALES 2000 JOHN DEERE RUN CARY, NC 27513-2789 US	MOWERS	E	B	7	N	N	1		18,170	18,170	18,170	0	4/13/2018	C		8/1/2018
4400002336	DEERE & COMPANY AG & TURF CBD & GOVERNMENT SALES 2000 JOHN DEERE RUN CARY, NC 27513-2789 US	TRACTOR	E	B	7	N	N	1		38,244	38,244	38,244	0	4/13/2018	C		8/1/2018
4400002337	DEERE & COMPANY AG & TURF CBD & GOVERNMENT SALES 2000 JOHN DEERE RUN CARY, NC 27513-2789 US	TRACTOR	E	B	7	N	N	1		50,191	50,191	50,191	0	4/13/2018	C		8/1/2018
4400002366	MICROSOFT CORP 3000 BAYPORT DR - STE 480 TAMPA, FL 33607 US	MICROSOFT SUPPORT	S	B	7	N	N	1		33,935	33,935	33,935	0	6/28/2018	O	6/27/2019	
4400002367	MOLEY MAGNETICS INC 5202 COMMERCE DR LOCKPORT, NY 14094 US	OVERHAUL OF DC MOTOR FOR ALBION CANAL LOCATION	S	C	6	N	N	3	*	16,673	16,673	16,673	0	4/19/2018	C		5/31/2018

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4400002368	C S X TRANSPORTATION INC 6737 SOUTHPOINT DR S - J180 JACKSONVILLE, FL 32216-6177 US	RAILROAD CROSSING MAINTENANCE	S	1	5	N	N	1		10,637	10,637	10,637	0	4/19/2018	C		4/30/2018
4400002371	WASTE MANAGEMENT LLC 1661 MOUNT READ BLVD ROCHESTER, NY 14606 US	DUMPSTER	E	B	7	N	N	1		10,000	0	0	10,000	4/19/2018	O	4/18/2019	
4400002377	THE EMPIRE CRANE CO LLC 7021 PERFORMANCE DR NORTH SYRACUSE, NY 13212 US	CRANE	E	B		N	N	3		365,000	365,000	365,000	0	4/20/2018	C		5/31/2018
4400002390	MOHAWK VALLEY MATERIALS INC 9788 RIVER RD MARCY, NY 13403-2049 US	TREE REMOVAL	C	B		F	03	2		289,000	289,000	289,000	0	4/23/2018	C		9/17/2018
4400002392	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	5	N	N	1		10,000	483	483	9,517	1/1/2017	C		6/30/2018
4400002398	SOUTHWORTH-MILTON INC 500 COMMERCE DR CLIFTON PARK, NY 12065 US	CAT TL	E	B	7	N	N	1		168,345	0	0	168,345	4/23/2018	C		11/30/2018
4400002402	RIG ALL INC 2322 BROAD ST FRANKFORT, NY 13340 US	RIG ALL RENTAL	E	B	5	N	N	1		6,675	6,675	6,675	0	4/24/2018	C		10/29/2018
4400002408	THE EMPIRE CRANE CO LLC 7021 PERFORMANCE DR NORTH SYRACUSE, NY 13212 US	USED RT CRANE	E	B		N	N	4		289,000	289,000	289,000	0	4/25/2018	C		5/30/2018
4400002411	CAPPELLINO CHEVROLET INC 9000 BOSTON STATE RD BOSTON, NY 14025 US	SEDAN	E	B	7	N	N	3		21,523	21,523	21,523	0	4/25/2018	C		9/30/2018
4400002456	ADVANCE MARINE LLC 900 SMITHS BRIDGE RD WILMINGTON, DE 19807-1330 US	MARINE DECK CRANE WATERFORD CANAL LOCATION	E	B		F	N	3		265,000	198,750	198,750	66,250	5/2/2018	O	5/1/2019	
4400002457	ALPHA ANALYTICAL INC 145 FLANDERS RD WESTBOROUGH, MA 01581-1031 US	PAINT TESTING FOR PCB'S AND LEAD MATERIALS	E	B	5	N	N	1		5,696	5,696	5,696	0	5/2/2018	C		5/31/2018
4400002465	NOCO ENERGY CORP 2440 SHERIDAN DR - STE 202 TONAWANDA, NY 14150-9493 US	FUEL	E	B	7	N	N	1		10,000	707	707	9,293	5/3/2018	O	4/30/2019	
4400002477	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	SPREADER	E	B	5	N	N	3		14,144	14,144	14,144	0	5/7/2018	C		8/30/2018
4400002482	WEST MARINE PRODUCTS INC WEST MARINE PRO 500 WESTRIDGE DR WATSONVILLE, CA 95076-4100 US	FLOAT COATS	E	B	5	N	N	4		19,817	6,077	6,077	13,740	5/22/2018	C		11/30/2018
4400002489	POSEIDON BARGE LTD 3101 NEW HAVEN AVE FORT WAYNE, IN 46803-2744 US	2 SPUD BARGES TO BE DELIVERED TO UTICA CANAL LOCATION	E	C	6	F	N	2		29,922	28,972	28,972	950	5/8/2018	C		5/31/2018
4400002493	ANDERSON EQUIPMENT CO 2140 MILITARY RD TONAWANDA, NY 14150-6002 US	TRUCK RENTAL	E	C	6	N	N	3		7,114	7,114	7,114	0	5/9/2018	C		5/9/2018
4400002502	KOFAX INC 15211 LAGUNA CANYON RD IRVINE, CA 92618-3146 US	CONSULTING SERVICES - AP AUTOMATION	P	1	8	N	N	1		19,875	19,875	19,875	0	5/10/2018	O	5/9/2019	

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4400002503	DONJON MARINE CO INC 100 CENTRAL AVE HILLSIDE, NJ 07205-2306 US	VESSEL REEFING	C	C	8	N	N	2		715,435	699,435	699,435	16,000	4/1/2018	C		9/30/2018
4400002504	VILLAGE OF NEWARK 100 E MILLER ST NEWARK, NY 14513 US	CANALS: MILITARY BROOK CULVERT PROJECT	C	B	9	N	N	2		600,000	0	0	600,000	8/1/2018	O	7/31/2019	
4400002506	AMERICAN ROCK SALT CO LLC DBA FOR AMERICAN ROCK SALT HOLDING PO BOX 190 MOUNT MORRIS, NY 14510-0190 US	ROCK SALT	E	B	7	N	N	1		5,000	0	0	5,000	5/14/2018	O	8/31/2019	
4400002507	CHALMERS & KUBECK NORTH INC 24-34 ELISE ST WESTFIELD, MA 01085 US	GEARBOX	E	2	5	F	N	1		14,900	13,561	13,561	1,339	5/14/2018	C		8/30/2018
4400002508	HAWK DRILLING CO INC 354 STONE CHURCH RD BALLSTON SPA, NY 12020-4610 US	WELL DRILLING	E	2	5	N	N	1		16,008	0	0	16,008	5/14/2018	C		7/31/2018
4400002509	PARR INDUSTRIES II INC 500 11TH ST PULASKI, TN 38478 US	DISPOSAL OF CONTAMINATED MATERIAL	S	B	5	N	N	1		5,150	5,150	5,150	0	5/14/2018	C		7/31/2018
4400002511	THRUSTMASTER OF TEXAS INC 6900 THRUSTMASTER DR HOUSTON, TX 77041 US	HYDRAULIC MOTOR REQUEST NEED TO REPAIR SPS 51 OUT DRIVE UNIT	E	C	6	F	N	1	*	8,289	8,289	8,289	0	5/14/2018	C		5/31/2018
4400002520	TRACEY ROAD EQUIP INC 6803 MANLIUS CENTER RD EAST SYRACUSE, NY 13057 US	LOWBOY TRAILER	E	2	8	N	N	1		69,312	69,312	69,312	0	5/17/2018	C		6/30/2018
4400002530	ELDERLEE INC 729 CROSS RD OAKS CORNERS, NY 14518 US	NYS TRAILWAY MARKERS AND SIGNS	E	B	7	N	N	3		20,000	0	0	20,000	5/17/2018	O	5/16/2019	
4400002551	MCQUADE & BANNIGAN INC 1300 STARK ST - PO BOX 476 UTICA, NY 13503 US	GENERATOR	E	B	5	N	N	1		44,398	44,198	44,198	200	5/21/2018	C		6/30/2018
4400002557	MCQUADE & BANNIGAN INC 6300 E MOLLOY RD EAST SYRACUSE, NY 13057 US	GENERATOR	E	B	5	N	N	2		20,324	0	0	20,324	5/22/2018	C		7/31/2018
4400002570	LAFARGE NORTH AMERICA INC 1717 NEW RD NIAGARA FALLS, NY 14304-1547 US	FINE AND COARSE AGGREGATES	E	B	7	N	N	1		15,000	1,307	1,307	13,693	5/25/2018	O	5/1/2019	
4400002574	MCQUADE & BANNIGAN INC 1300 STARK ST - PO BOX 476 UTICA, NY 13503 US	GENERATOR	E	B	5	N	N	1		20,324	20,324	20,324	0	5/30/2018	C		7/31/2018
4400002575	VANTAGE EQUIPMENT LLC 5985 COURT STREET RD SYRACUSE, NY 13206-1707 US	TRUCK	E	B	5	N	N	1		9,700	9,100	9,100	600	5/30/2018	C		7/31/2018
4400002578	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	SOFTWARE AND MAINTENANCE - ACTIVE DIRECTORY	E	B	7	N	N	1		20,264	20,264	20,264	0	6/1/2018	O	5/31/2019	
4400002600	KLEIN STEEL SERVICE INC 105 VANGUARD PKWY ROCHESTER, NY 14606-3100 US	RAW STEEL	E	B	5	N	N	3		24,025	23,940	23,940	85	6/4/2018	C		6/30/2018
4400002603	VANTAGE EQUIPMENT LLC 5985 COURT STREET RD SYRACUSE, NY 13206-1707 US	RENTAL OF HAULER	E	B	5	N	N	1		9,700	9,700	9,700	0	6/6/2018	C		6/6/2018

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4400002613	PARTNERS ENVIRONMENTAL CONSULTING INC 31100 SOLON RD - STE G SOLON, OH 44139-3463 US	ASBESTOS AND PCB REMEDIATION ON ONE OF NYS CANAL BOATS	S	B	5	F	N	1		5,483	5,483	5,483	0	6/7/2018	C		6/30/2018
4400002621	BARRE STONE PRODUCTS INC 14120 W LEE RD ALBION, NY 14411 US	FINE AND COARSE AGGREGATES	E	C	5	N	N	1		20,000	7,862	7,862	12,138	6/10/2018	O	6/9/2019	
4400002623	ALLIANCE DOOR & HARDWARE INC 55 ALLIANCE DR STE 1 ROCHESTER, NY 14623 US	FURNISH, DELIVER, INSTALL GARAGE DOORS	S	C	6	N	N	3		7,342	7,342	7,342	0	6/10/2018	C		6/30/2018
4400002624	WASTE MANAGEMENT LLC 220 KENNETH DR SUITE 500 ROCHESTER, NY 14623 US	RUBBISH REMOVAL AND RECYCLING	S	B	7	N	N	1		15,200	4,705	4,705	10,495	6/10/2018	C		12/31/2018
4400002635	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	HITACHI EQUIPMENT SOFTWARE AND SUPPORT	E	B	7	N	04	1		140,998	140,998	140,998	0	6/12/2018	O	6/11/2019	
4400002644	DELL MARKETING LP 850 ASBURY DR BUFFALO GROVE, IL 60089-4557 US	MICROSOFT LICENSING PRODUCTS CANAL	E	B	7	N	N	1		67,244	22,024	22,024	45,220	7/1/2018	O	6/30/2021	
4400002654	ADMAR SUPPLY CO INC 878 ALBANY SHAKER RD LATHAM, NY 12110-1458 US	SKYTRAK RENTAL	E	B	7	N	N	1		6,450	6,450	6,450	0	6/14/2018	C		9/30/2018
4400002657	BEYER OF MORRISTOWN LLC 200 RIDGEDALE AVE MORRISTOWN, NJ 07960-4089 US	RAM TRADESMAN	E	B	7	F	N	5		54,807	0	0	54,807	6/14/2018	C		10/30/2018
4400002688	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	RAM 3500	E	B	7	N	N	1		103,981	0	0	103,981	6/20/2018	C		11/30/2018
4400002689	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	RAN CAB	E	B	7	N	N	1		53,451	0	0	53,451	6/20/2018	C		11/30/2018
4400002690	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	RAM 5500	E	B	7	N	N	1		122,578	0	0	122,578	6/20/2018	C		11/30/2018
4400002697	DOUGLAS SALES & PROMOTIONS CORP DOUGLAS INDUSTRIAL CO 811 10TH ST WATERVLIET, NY 12189-3133 US	MISCELLANEOUS	E	M	5	N	02	1		6,325	5,914	5,914	411	6/21/2018	C		12/31/2018
4400002701	DHI WATER AND ENVIRONMENT 141 UNION BLVD STE 250 LAKEWOOD, CO 80228-2206 US	MAINTENANCE - MIKE OPERATIONS SOFTWARE	S	1	8	N	N	1		51,222	51,222	51,222	0	7/1/2018	O	6/30/2019	
4400002708	ALL-LIFTS INC 27-39 THATCHER ST ALBANY, NY 12207-3012 US	STAINLESS STEEL WIRE ROPE	E	B	5	N	01	3		6,120	6,120	6,120	0	6/25/2018	C		7/30/2018

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4400002711	DEERE & COMPANY AG & TURF CBD & GOVERNMENT SALES 2000 JOHN DEERE RUN CARY, NC 27513-2789 US	LAWN MOWERS TRACTORS	E	B	5	N	N	1		19,965	19,965	19,965	0	6/26/2018	C		7/31/2018
4400002715	FERRELLGAS LP 5859 STATE RTE 31 VERONA, NY 13478-3713 US	LP GAS	E	B	7	N	N	1		10,000	0	0	10,000	7/1/2018	O	6/30/2022	
4400002733	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	RAM TRADESMAN	E	B	7	N	N	1		42,182	0	0	42,182	6/28/2018	C		12/31/2018
4400002734	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	RAM 3500	E	B	7	N	N	1		68,657	0	0	68,657	6/28/2018	C		9/30/2018
4400002735	TRACEY ROAD EQUIP INC 6803 MANLIUS CENTER RD EAST SYRACUSE, NY 13057 US	TRAILERS	E	B	5	N	N	1		21,424	21,424	21,424	0	6/28/2018	C		10/30/2018
4400002741	HP INC 1501 PAGE MILL RD PALO ALTO, CA 94304-1126 US	X360	E	B	5	F	N	1		8,587	8,587	8,587	0	6/29/2018	C		9/18/2018
4400002742	MAIN MOTORCAR HOWELL & PIERSON INC 224 W MAIN ST JOHNSTOWN, NY 12095 US	RAM PROMASTER	E	B	5	N	N	4		30,177	0	0	30,177	6/29/2018	C		10/30/2018
4400002750	DONJON MARINE CO INC 100 CENTRAL AVE HILLSIDE, NJ 07205-2306 US	REEF PROJECT FOR REMEDIATION, TRANSPORTATION, AND SCUTTLING OF OBSOLETE VESSELS	A	B	8	F	N	3		2,383,583	2,371,583	2,371,583	12,000	11/1/2018	O	1/31/2019	
4400002753	DEERE & COMPANY AG & TURF CBD & GOVERNMENT SALES 2000 JOHN DEERE RUN CARY, NC 27513-2789 US	ZERO TURN MOWERS	E	B	5	N	N	1		28,327	28,327	28,327	0	7/2/2018	C		7/31/2018
4400002755	STEPHENSON EQUIPMENT INC 6018 DROTT DR EAST SYRACUSE, NY 13057-2998 US	GROVE SHUTTLELIFT	E	B		N	N	1		119,500	119,500	119,500	0	7/2/2018	C		8/30/2018
4400002776	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	CANAL CORPORATION REEF PROJECT	S	B	8	N	01	2		115,725	115,725	115,725	0	7/11/2018	C		7/23/2018
4400002783	WASTE MANAGEMENT LLC 1661 MOUNT READ BLVD ROCHESTER, NY 14606 US	RUBBISH REMOVAL	S	B	7	N	N	1		10,000	5,993	5,993	4,007	7/12/2018	O	7/1/2019	
4400002785	WASTE MANAGEMENT LLC 1661 MOUNT READ BLVD ROCHESTER, NY 14606 US	WASTE REMOVAL	E	B	7	N	N	1		8,999	5,042	5,042	3,957	7/12/2018	O	12/31/2019	
4400002794	WOODS CRW CORP 751 COUNTY RTE 37 CENTRAL SQUARE, NY 13036 US	BOOM CRANE	E	2	8	N	N	1		554,467	554,467	554,467	0	7/16/2018	C		8/15/2018

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4400002795	ABELE TRACTOR & EQUIPMENT CO INC 72 EVERETT RD ALBANY, NY 12205 US	DOZER RENTAL	E	B	5	N	N	1		16,700	16,200	16,200	500	7/18/2018	C		8/18/2018
4400002796	GENESEE VALLEY MOTORS 1695 INTERSTATE DR AVON, NY 14414-9540 US	3 TRADESMAN QUAD CABS	E	B	7	N	N	3		111,634	111,634	111,634	0	7/16/2018	C		10/29/2018
4400002797	ATLANTIC FLUID POWER INC ATLANTIC HYDRAULIC SYSTEMS INC 90 PRECISION DR SHIRLEY, NY 11967-4702 US	HYDRAULIC COMPONENTS	E	B	8	N	N	3		361,856	361,856	361,856	0	7/17/2018	C		10/31/2018
4400002803	CAPPELLINO CHEVROLET INC 9000 BOSTON STATE RD BOSTON, NY 14025 US	IMPALA PURCHASE	E	B	5	N	N	3		21,377	21,377	21,377	0	7/16/2018	C		12/31/2018
4400002817	CALLANAN INDUSTRIES INC PO BOX 15097 ALBANY, NY 12212-5097 US	AGGREGATES CRUSHER RUN	E	B	7	N	N	1		10,000	0	0	10,000	7/17/2018	O	7/16/2019	
4400002818	HANSON AGGREGATES NEW YORK LLC 2049 HONEOYE FALLS #6 RD HONEOYE FALLS, NY 14472 US	FINE AND COARSE AGGREGATES	E	B	7	N	N	1		10,000	0	0	10,000	7/17/2018	O	7/16/2019	
4400002821	ANDERSON EQUIPMENT CO 6317 THOMPSON RD SYRACUSE, NY 13206-1407 US	REPAIR WORK	S	C	6	N	N	3		10,182	10,182	10,182	0	7/20/2018	C		10/31/2018
4400002832	ABELE TRACTOR & EQUIPMENT CO INC 72 EVERETT RD ALBANY, NY 12205 US	DOZER RENTAL	E	B	7	N	N	1		19,200	17,935	17,935	1,265	7/25/2018	C		8/24/2018
4400002835	STRATEGIC RESPONSE INITIATIVES LLC 44 DALLIBA AVE STE 204 WATERVLIET, NY 12189-4017 US	GREENLEE PULLER	E	B	5	N	02	1		13,022	13,022	13,022	0	7/25/2018	C		8/31/2018
4400002842	PAVILION DRAINAGE SUPPLY CO INC 6630 ELLICOTT STREET RD PAVILION, NY 14525-9603 US	CANALS: REMOVAL AND REPLACEMENT OF GUIDERAIL	S	M	8	N	04	1		137,154	137,154	137,154	0	7/26/2018	C		8/31/2018
4400002846	WALTER S PRATT & SONS INC 317 COLUMBIA ST - PO BOX 170 RENSSELAER, NY 12144-2920 US	USCG REQUIRED FIRE EQUIPMENT	E	B	5	N	01	3		6,104	6,104	6,104	0	7/26/2018	C		7/26/2018
4400002856	BLUMBERG MACHINERY COMPANY 2101 WAUKEGAN RD STE 305 BANNOCKBURN, IL 60015-1836 US	LATHE	E	B	8	N	N	3		100,990	100,990	100,990	0	7/27/2018	C		8/30/2018
4400002858	COUNTY WASTE & RECYCLING SERVICE IN PO BOX 11760 NEWARK, NJ 07101-4760 US	WASTE PICKUP FOR FONDA	S	B	7	N	N	1		10,000	0	0	10,000	7/31/2018	O	6/30/2019	
4400002865	CLINTON TRACTOR & IMPLEMENT CO PO BOX 262 CLINTON, NY 13323 US	MOWER PARTS	E	B	5	N	N	1		27,834	0	0	27,834	8/1/2018	C		8/31/2018
4400002868	COLD SPRING CONSTRUCTION CO 43 JACKSON ST - PO BOX 358 AKRON, NY 14001-1349 US	EAST GUARD LOCK REHABILITATION	C	B		N	N	5		5,955,116	304,206	304,206	5,650,910	8/29/2018	O	11/28/2019	
4400002869	FIVE STAR EQUIPMENT INC 6500 E TAFT RD EAST SYRACUSE, NY 13057 US	TRACK REPAIRS	E	2	5	N	N	1		10,243	10,243	10,243	0	8/2/2018	C		8/31/2018

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4400002870	DIVAL SAFETY EQUIPMENT INC 1721 NIAGARA ST BUFFALO, NY 14207-3108 US	2 DAY OSHA TRAINING	S	B	6	N	N	3		13,750	0	0	13,750	8/2/2018	O	8/1/2019	
4400002871	CARDIAC LIFE PRODUCTS INC PO BOX 25755 ROCHESTER, NY 14625-0755 US	AED MAINTENANCE AND SERVICE	S	B	5	N	03	1		11,849	11,849	11,849	0	8/6/2018	C		12/31/2018
4400002874	HARBORMASTER MARINE INC 8531 RONDA DR PO BOX 87157 CANTON, MI 48187 US	MARINE PROPELLER HUB	E	2	5	F	N	1	*	7,052	7,052	7,052	0	8/3/2018	C		8/31/2018
4400002877	MOHAWK VALLEY MATERIALS INC 9788 RIVER RD MARCY, NY 13403-2049 US	CANALS: WOODY DEBRIS WASTE MANAGEMENT IN THE EASTERN CANAL AREA	C	M	5	N	03	1		26,787	26,787	26,787	0	8/22/2018	C		9/14/2018
4400002882	FIVE STAR EQUIPMENT INC 6500 E TAFT RD EAST SYRACUSE, NY 13057 US	REPAIR PARTS	E	2	5	N	N	1		16,170	16,170	16,170	0	8/6/2018	C		9/30/2018
4400002883	DRONE NERDS INC 320 NE 1ST AVE HALLANDALE, FL 33009 US	DRONES	E	B	5	F	N	3		22,719	22,719	22,719	0	8/6/2018	C		10/30/2018
4400002886	COLD SPRING CONSTRUCTION CO 43 JACKSON ST - PO BOX 358 AKRON, NY 14001-1349 US	ALBION WASTE WEIR REHABILITATION	C	B		N	N	4		1,460,432	136,200	136,200	1,324,232	8/21/2018	O	7/31/2019	
4400002887	MAIN MOTORCAR HOWELL & PIERSON INC 224 W MAIN ST JOHNSTOWN, NY 12095 US	DURANGOS	E	B	7	N	N	4		55,738	0	0	55,738	8/7/2018	C		12/31/2018
4400002889	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		10,000	4,276	4,276	5,724	8/31/2018	O	8/30/2020	
4400002890	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		10,000	0	0	10,000	8/31/2018	O	8/30/2020	
4400002891	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		10,000	0	0	10,000	8/31/2018	O	8/30/2020	
4400002892	MIRABITO FUEL GROUP 10 CARBON ST ONEONTA, NY 13820 US	FUEL	E	B	7	N	N	1		10,000	700	700	9,300	8/31/2018	O	8/30/2020	
4400002893	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		10,000	0	0	10,000	8/31/2018	O	8/30/2020	
4400002894	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		10,000	0	0	10,000	8/31/2018	O	8/30/2020	
4400002900	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		10,000	0	0	10,000	8/31/2018	O	8/30/2022	
4400002901	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		10,000	0	0	10,000	8/31/2018	O	8/30/2022	
4400002905	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		10,000	0	0	10,000	8/31/2018	O	8/30/2022	

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4400002906	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		10,000	736	736	9,264	8/31/2018	O	8/30/2022	
4400002907	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		10,000	0	0	10,000	8/31/2018	O	8/30/2022	
4400002908	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		40,000	2,882	2,882	37,118	8/31/2018	O	8/30/2022	
4400002909	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		20,000	4,554	4,554	15,446	8/31/2018	O	8/30/2022	
4400002922	ROSICK WELL DRILLING LLC 1175 FARLEY RD HUDSON FALLS, NY 12839-4307 US	INSTALLATION OF A NEW WATER WELL AT C-9 LOCATION IN FORT ANN WASHINGTON COUNTY	C	B	5	N	N	1		15,850	0	0	15,850	8/9/2018	O	8/8/2019	
4400002929	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		20,000	0	0	20,000	8/31/2018	O	8/30/2020	
4400002930	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		20,000	0	0	20,000	8/31/2018	O	8/30/2020	
4400002931	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		20,000	0	0	20,000	8/31/2018	O	8/30/2020	
4400002935	MODERN DISPOSAL SERVICES INC PO BOX 209 MODEL CITY, NY 14107-0209 US	RUBBISH REMOVAL	S	B	7	N	N	1		5,000	2,545	2,545	2,455	8/13/2018	O	8/12/2019	
4400002939	VANTAGE EQUIPMENT LLC 5985 COURT STREET RD SYRACUSE, NY 13206-1707 US	EQUIPMENT RENTAL	E	B	7	N	N	1		17,000	17,000	17,000	0	8/14/2018	C		11/30/2018
4400002946	DEERE & COMPANY AG & TURF CBD & GOVERNMENT SALES 2000 JOHN DEERE RUN CARY, NC 27513-2789 US	TRACK MOWER	E	B	7	N	N	1		9,982	9,982	9,982	0	8/14/2018	C		11/30/2018
4400002954	EMPIRE CRANE CO LLC 7021 PERFORMANCE DR NORTH SYRACUSE, NY 13212 US	CRANE RENTAL	E	B	5	N	N	3		14,700	14,700	14,700	0	8/1/2018	C		11/30/2018
4400002955	SENECA COUNTY SHERIFF 6150 STATE RTE 96 ROMULUS, NY 14541-9552 US	MARINE PATROL	S	B	7	N	N	10		25,000	25,000	25,000	0	8/15/2018	C		8/31/2018
4400002959	WELLS COMMUNICATION SERVICE INC 221 N GREENBUSH RD TROY, NY 12180-8512 US	RADIO EQUIPMENT	E	B	5	N	N	3		6,010	0	0	6,010	8/16/2018	C		9/30/2018
4400002965	VANTAGE EQUIPMENT LLC 5985 COURT STREET RD SYRACUSE, NY 13206-1707 US	RENTALS	E	B	5	N	N	1		17,000	17,000	17,000	0	8/17/2018	C		8/31/2018

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4400002968	DONJON MARINE CO INC 100 CENTRAL AVE HILLSIDE, NJ 07205-2306 US	CANAL REEFING PHASE II	S	B		N	N	2		2,551,975	2,551,975	2,551,975	0	8/22/2018	O	3/31/2019	
4400002972	ERIE COUNTY SHERIFF'S OFFICE 10 DELAWARE AVE BUFFALO, NY 14202 US	MARINE PATROL	S	B	9	N	N	10		40,000	0	0	40,000	8/28/2018	O	3/31/2019	
4400002975	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		45,000	0	0	45,000	8/31/2018	O	8/27/2020	
4400002978	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		25,000	0	0	25,000	8/31/2018	O	8/27/2020	
4400002989	J M TREE SERVICE INC 3567 SWEDEN WALKER RD BROCKPORT, NY 14420-9319 US	TREE REMOVAL FOR PITTSFORD CANAL LOCATION	S	B	6	N	N	3		12,000	0	0	12,000	9/5/2018	O	1/2/2019	
4400002997	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		25,000	0	0	25,000	8/31/2018	O	8/27/2020	
4400002998	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		45,000	8,206	8,206	36,794	8/30/2018	O	8/27/2020	
4400002999	HP INC 1501 PAGE MILL RD PALO ALTO, CA 94304-1126 US	LAPTOPS	H	B	7	N	N	1		17,175	17,175	17,175	0	9/6/2018	C		10/30/2018
4400003001	ABS AMERICAS DBA FOR AMERICAN BUREAU OF SHIPPING 1701 CITY PLAZA DR SPRING, TX 77389-1831 US	TONNAGE MEASUREMENT SERVICES FOR THE VESSEL ERIE GRAND	S	B	6	F	N	1		10,000	0	0	10,000	9/6/2018	O	1/29/2019	
4400003002	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		30,000	15,055	15,055	14,945	8/30/2018	O	8/27/2020	
4400003003	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		30,000	6,429	6,429	23,571	8/30/2018	O	8/27/2020	
4400003004	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		30,000	0	0	30,000	8/30/2018	O	8/27/2020	
4400003005	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		30,000	0	0	30,000	8/30/2018	O	8/27/2020	
4400003006	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		75,000	21,489	21,489	53,511	8/30/2018	O	8/27/2020	
4400003007	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		30,000	4,320	4,320	25,680	8/30/2018	O	8/27/2020	
4400003008	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		50,000	0	0	50,000	8/30/2018	O	8/27/2020	
4400003010	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		20,000	0	0	20,000	8/30/2018	O	8/27/2020	

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4400003011	SENECA STONE CORPORATION 2747 CANOGA RD SENECA FALLS, NY 13148-9523 US	PAVING	C	B	7	N	N	1		69,347	0	0	69,347	9/6/2018	O	9/5/2019	
4400003012	MIRABITO FUEL GROUP 10 CARBON ST ONEONTA, NY 13820 US	FUEL	E	B	7	N	N	1		25,000	0	0	25,000	8/30/2018	O	8/27/2020	
4400003013	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		25,000	0	0	25,000	8/30/2018	O	8/27/2020	
4400003014	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		20,000	0	0	20,000	8/30/2018	O	8/27/2020	
4400003015	KURK FUEL OIL CO DBA FOR GOETZ ENERGY CORP PO BOX A BUFFALO, NY 14217-0305 US	FUEL	E	B	7	N	01	1		15,000	0	0	15,000	8/30/2018	O	8/27/2020	
4400003016	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		20,000	0	0	20,000	8/30/2018	O	8/27/2020	
4400003017	KURK FUEL OIL CO DBA FOR GOETZ ENERGY CORP PO BOX A BUFFALO, NY 14217-0305 US	FUEL	E	B	7	N	01	1		20,000	2,349	2,349	17,651	8/30/2018	O	8/27/2020	
4400003034	EMPIRE CRANE CO LLC 7021 PERFORMANCE DR NORTH SYRACUSE, NY 13212 US	CRANE RENTAL	E	B	5	N	N	2		29,700	9,900	9,900	19,800	11/1/2018	O	4/30/2019	
4400003050	MOHAWK VALLEY MATERIALS INC 9788 RIVER RD MARCY, NY 13403-2049 US	REMOVAL OF TREES THAT POSES A HAZARD TO THE PUBLIC	S	B	5	N	03	1		36,000	36,000	36,000	0	9/13/2018	O	1/18/2019	
4400003062	PULVER ROOFING INC 1418 ERIE STREET UTICA, NY 13502 US	UTICA SHOP SHINGLE OVERLAY	S	M	8	N	03	1		74,000	74,000	74,000	0	9/18/2018	C		10/31/2018
4400003063	AMSEC ENGINEERING OF NEW YORK PC DBA AENY 112 W 34TH ST FL 18 NEW YORK, NY 10120-0001 US	SURVEY AND ASSESSMENT OF THE TUG URGER VESSEL	P	B	9	N	N	1		81,153	36,434	36,434	44,719	9/22/2018	O	9/21/2019	
4400003064	MIDLAKES HIREBOATS LTD 11 JORDAN ST SKANEATELES, NY 13152 US	EXHIBIT FOR NYS FAIR AGREEMENT	E	1	8	N	N	1		10,000	10,000	10,000	0	9/13/2018	C		9/13/2018
4400003067	ADMAR SUPPLY CO INC 878 ALBANY SHAKER RD LATHAM, NY 12110-1458 US	BRUSH CUTTER	E	B	5	N	N	3		6,080	6,080	6,080	0	9/17/2018	C		10/1/2018
4400003077	COUNTY OF MADISON 138 N COURT ST PO BOX 665 WAMPSVILLE, NY 13163 US	MARINE PATROL	S	C	6	N	N	1		34,463	0	0	34,463	9/18/2018	O	3/31/2019	
4400003078	MONROE COUNTY DEPT OF ENVIRONMENTAL SERVICES 50 WEST MAIN ST - STE 7100 ROCHESTER, NY 14614 US	MARINE PATROL	S	C	6	N	N	1		39,424	0	0	39,424	9/18/2018	O	3/31/2019	

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4400003079	PRECISION PROPELLER REPAIR PROPELLER & POWER TOOL SERVICE CTR 78 BRIDGE ST NEWBURGH, NY 12550 US	PROPELLER TUG ROOSEVELT	E	2	5	N	N	1		14,663	14,663	14,663	0	9/19/2018	C		9/25/2018
4400003083	COUNTY OF NIAGARA NIAGARA COUNTY COURTHOUSE 175 HAWLE LOCKPORT, NY 14094 US	MARINE PATROL	S	C	9	N	N	1		40,000	0	0	40,000	9/19/2018	O	3/31/2019	
4400003084	COUNTY OF ONEIDA 6065 JUDD RD ORISKANY, NY 13424 US	MARINE PATROL	S	C	9	N	N	1		40,000	0	0	40,000	9/19/2018	O	3/31/2019	
4400003085	Y S I INC ATTN: ORDER ENTRY 9843 18TH ST N STE 1200 ST PETERSBURG, FL 33716-4208 US	XYLEM WATER GAGING EQ	E	2	8	F	N	1		133,166	0	0	133,166	9/20/2018	O	9/19/2019	
4400003103	BEDFORD BLACKTOP LLC 7361 WHEELER RD LOCKPORT, NY 14094-9418 US	PAVING	C	C	5	N	N	3		42,000	42,000	42,000	0	9/21/2018	C		10/31/2018
4400003106	MARCY EXCAVATION SERVICES LLC 5835 ROUTE 5 HERKIMER, NY 13350 US	DREDGE SPOIL REMOVAL	S	B		N	N	4		799,477	794,957	794,957	4,520	9/25/2018	C		12/31/2018
4400003107	ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE INC 380 NEW YORK ST REDLANDS, CA 92373-8100 US	MAINTENANCE - ESRI SOFTWARE	S	B	7	F	N	1		15,545	15,545	15,545	0	9/25/2018	O	9/24/2019	
4400003108	LYRIS INC 401 CONGRESS AVE - STE 2650 AUSTIN, TX 78701-3708 US	AUREA LYRIS SUBSCRIPTION LICENSES	I	2	8	N	N	1		43,680	43,680	43,680	0	10/1/2018	O	9/30/2019	
4400003121	MAGNOLIA METAL CORPORATION PO BOX 34370 OMAHA, NE 68134 US	BRONZE PARTS	E	B	5	F	N	3		12,543	12,543	12,543	0	9/26/2018	C		10/29/2018
4400003131	SPRAGUE RESOURCES LP SPRAGUE OPERATING RESOURCES LLC 185 INTERNATIONAL DR PORTSMOUTH, NH 03801-6836 US	FUEL	E	B	7	N	N	1		20,000	2,457	2,457	17,543	8/31/2018	O	8/27/2020	
4400003132	SPRAGUE RESOURCES LP SPRAGUE OPERATING RESOURCES LLC 185 INTERNATIONAL DR PORTSMOUTH, NH 03801-6836 US	FUEL	E	B	7	N	N	1		30,000	0	0	30,000	8/31/2018	O	8/27/2020	
4400003154	CARVER CONSTRUCTION INC 494 WESTERN TPKE STE 1 ALTAMONT, NY 12009-2095 US	DREDGING OF SYRACUSE INNER HARBOR	C	B		N	N	2		10,344,450	0	0	10,344,450	10/26/2018	O	7/30/2019	
4400003157	SENTEC PROMOTIONS INC SUSIE SPECIALTIES 3960 HARLEM RD - STE 8 AMHERST, NY 14226-4706 US	BAGS FOR NYS FAIR	E	M	5	N	03	1		19,950	19,950	19,950	0	10/4/2018	C		10/4/2018
4400003159	ONONDAGA COUNTY SHERIFF'S OFFICE 407 SOUTH STATE ST SYRACUSE, NY 13202 US	MARINE PATROL	S	C	9	N	N	11		40,000	0	0	40,000	10/5/2018	O	3/31/2019	

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4400003160	ORLEANS COUNTY SHERIFF'S OFFICE 13925 STATE ROUTE 31 ALBION, NY 14411 US	MARINE PATROL	S	C	9	N	N	11		12,500	0	0	12,500	10/5/2018	O	3/31/2019	
4400003161	OSWEGO COUNTY SHERIFF'S OFFICE 39 CHURCHILL ROAD OSWEGO, NY 13126 US	MARINE PATROL	S	C	9	N	N	11		40,000	0	0	40,000	10/5/2018	O	3/31/2019	
4400003163	SENECA COUNTY SHERIFF 6150 STATE RTE 96 ROMULUS, NY 14541-9552 US	MARINE PATROL	S	C	9	N	N	11		40,000	0	0	40,000	10/5/2018	O	3/31/2019	
4400003170	MCQUADE & BANNIGAN INC 1300 STARK ST - PO BOX 476 UTICA, NY 13503 US	PLANER	E	B	5	N	N	1		7,974	7,974	7,974	0	10/8/2018	C		10/30/2018
4400003171	SOUTHWORTH-MILTON INC 294 AINSLEY DR SYRACUSE, NY 13205 US	CATERPILLAR PARTS	E	B	7	N	N	1	*	12,506	12,506	12,506	0	10/8/2018	C		10/30/2018
4400003180	J M POWER AGGREGATES INC 808 PROCTOR AVENUE OGDENSBURG, NY 13669 US	NATURAL CINDERS	E	M	5	N	01	1		6,637	6,637	6,637	0	10/10/2018	C		10/31/2018
4400003181	WOODS CRW CORP PO BOX 1099 795 MARSHALL AVE WILLISTON, VT 05495 US	CRANE RENTAL	E	M	8	N	N	3		78,750	0	0	78,750	11/1/2018	O	3/31/2019	
4400003185	ELLICOTT DREDGES LLC ELLICOTT DREDGE ENTERPRISES LLC, EL 1425 WICOMICO ST BALTIMORE, MD 21230 US	ELLICOTT OEM PARTS	E	1	5	F	N	1		7,433	7,433	7,433	0	10/10/2018	C		11/30/2018
4400003186	PUMP SERVICE AND SUPPLY OF TROY INC 1 REGATTA PLACE TROY, NY 12180-1229 US	PUMP SERVICE	E	B	5	N	01	1		6,000	3,000	3,000	3,000	11/1/2018	C		12/1/2018
4400003189	NICHOLS LONG & MOORE CONSTRUCTION CORP 770 RIVERVIEW BLVD STE 1 TONAWANDA, NY 14150-7880 US	REHABILITATION OF DIVE CULVERT 125	C	B		N	N	2		1,346,155	84,600	84,600	1,261,555	10/25/2018	O	6/30/2019	
4400003191	COUNTY OF SCHENECTADY 620 STATE ST SCHENECTADY, NY 12305 US	MARINE PATROL	S	C	9	N	N	11		40,000	0	0	40,000	10/10/2018	O	3/31/2019	
4400003195	COUNTY OF WASHINGTON 383 BROADWAY FORT EDWARD, NY 12828 US	MARINE PATROL	S	C	9	N	N	11		13,240	0	0	13,240	10/10/2018	O	3/31/2019	
4400003198	BETLEM SERVICE CORPORATION EMCOR SERVICES BETHLEM 704 CLINTON AVE S ROCHESTER, NY 14620-1499 US	STEAM BOILER REGASKET FOR ALBION LOCATION	S	C	9	N	N	3		9,584	9,584	9,584	0	10/11/2018	O	1/18/2019	
4400003210	BARRETT PAVING MATERIALS INC 4530 WETZEL RD LIVERPOOL, NY 13090-2517 US	PAVING	S	B	7	N	N	2		74,517	0	0	74,517	10/16/2018	O	10/15/2019	
4400003218	PITTSBURGH FOUNDRY & MACHINE CO 20 36TH ST PITTSBURGH, PA 15201 US	STEEL CASTINGS	E	B	7	F	N	1		247,310	0	0	247,310	10/17/2018	O	1/7/2019	
4400003221	PULVER ROOFING INC 1418 ERIE STREET UTICA, NY 13502 US	FONDA ROOF REPLACEMENT	S	M	5	N	03	1		49,000	49,000	49,000	0	10/18/2018	C		10/31/2018

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4400003222	A P PLUMBING LAURAMAR CORPORATION 1195 RIDGEWAY AVE ROCHESTER, NY 14615 US	OIL WATER SEPARATOR SYSTEM	E	B	5	N	N	2		16,200	0	0	16,200	10/18/2018	O	1/31/2019	
4400003224	GRANDESIGN ADVERTISTING FIRM INC PO BOX 840331 DALLAS, TX 75284-0331 US	NYS FAIR BOOTH DESIGN AND INSTALL	S	2	5	N	N	1		22,150	22,150	22,150	0	10/18/2018	C		10/18/2018
4400003229	MARSH USA INC 1166 AVENUE OF THE AMERICAS NEW YORK, NY 10036-2708 US	VALUATION OF CANAL ASSETS FOR INSURANCE PURPOSES	P	2		N	N	1		49,804	0	0	49,804	11/1/2018	O	2/28/2019	
4400003242	EMPIRE CRANE CO LLC 7021 PERFORMANCE DR NORTH SYRACUSE, NY 13212 US	CRANE RENTAL	E	B	5	N	N	3		36,000	9,000	9,000	27,000	11/1/2018	O	5/31/2019	
4400003248	A-VERDI COS LLC 14150 RTE 31 SAVANNAH, NY 13146 US	STORAGE CONTAINERS	E	B	5	N	N	2		5,600	2,800	2,800	2,800	10/23/2018	C		11/30/2018
4400003249	HUNT UNDERWATER SPECIALTIES 200 E MAIN ST PO BOX 832 WATERTOWN, NY 13601 US	LOCK E-19 DIVE WORK	S	B	5	N	N	3		16,571	0	0	16,571	10/24/2018	C		11/30/2018
4400003251	NORTHLAND TRAILERS LLC 9280 RIVER RD MARCY, NY 13403-2069 US	TRAILERS	E	B	5	N	N	3		9,990	0	0	9,990	10/25/2018	C		12/31/2018
4400003258	TIOGA CONSTRUCTION CO INC 333 GROS BLVD HERKIMER, NY 13350-1497 US	CRANE RENTAL	E	B	5	N	N	3		15,000	0	0	15,000	11/1/2018	O	4/30/2019	
4400003263	THE VISUAL BRAND LLC 24 WHITNEY ST WESTPORT, CT 06880-3735 US	NYS FAIR BOOTH UPDATES	E	2	5	N	N	1		7,303	7,303	7,303	0	10/26/2018	C		10/27/2018
4400003264	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	CANALS: LOCKPORT FLIGHT OF FIVE PROJECT	C	B		N	01	1		1,246,893	0	0	1,246,893	10/31/2018	O	8/30/2019	
4400003266	WOODS CRW CORP 751 COUNTY RTE 37 CENTRAL SQUARE, NY 13036 US	CRANE RENTAL	E	B	5	N	N	3		48,000	0	0	48,000	11/5/2018	O	3/5/2019	
4400003269	CRANE INDUSTRY SERVICES LLC 176 MURPHY CAMPUS BLVD WACO, GA 30182-2407 US	RIGGING CLASS CERTIFICATION	S	B	5	N	N	3		20,000	14,326	14,326	5,674	10/29/2018	C		10/29/2018
4400003280	SOUDER'S LLC SOUDERS PROMOTIONS 26 F CONGRESS ST NO 263 SARATOGA SPRINGS, NY 12866 US	MARKETING MATERIALS	E	B	5	N	N	1		5,500	0	0	5,500	10/30/2018	C		10/30/2018
4400003290	NORTHEAST CRANE SALES & SERVICE LLC 500 OHIO ST LOCKPORT, NY 14094-4222 US	CRANE REPAIR	S	2	5	N	N	1		5,335	5,335	5,335	0	10/31/2018	C		10/31/2018
4400003304	MCFARLAND CASCADE HOLDINGS INC DBA MCFARLAND CASCADE 1400 IRON HORSE PARK NORTH BILLERICA, MA 01862 US	LUMBER	E	C	6	N	N	4		13,976	0	0	13,976	11/5/2018	O	11/4/2019	
4400003305	MCFARLAND CASCADE HOLDINGS INC DBA MCFARLAND CASCADE 1400 IRON HORSE PARK NORTH BILLERICA, MA 01862 US	LUMBER	E	C	6	N	N	4		13,530	0	0	13,530	11/5/2018	O	11/4/2019	

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4400003320	WASTE MANAGEMENT LLC 2003 BLEEKER ST UTICA, NY 13501 US	WASTE MANAGEMENT FOR UTICA LOCATION	S	B	6	N	N	1		10,000	0	0	10,000	11/6/2018	O	11/5/2019	
4400003325	DONJON SHIPBUILDING & REPAIR LLC 220 EAST BAYFRONT PKWY ERIE, PA 16507-2402 US	CANAL HOPPER BARGE -2022	E	B		N	N	4		5,060,797	364,308	364,308	4,696,489	11/7/2018	O	1/31/2023	
4400003330	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	LICENSE AND MAINTENANCE - ACCELA SOFTWARE	I	B	7	F	N	1		67,077	0	0	67,077	11/8/2018	O	11/7/2019	
4400003332	SISCO MARINE LLC MARINE INLAND FABRICATIONS 1725 BUCHANAN ST PANAMA CITY, FL 32409-1482 US	CANAL PUSH BOATS -2022	E	B		N	N	4		3,465,808	415,000	415,000	3,050,808	11/7/2018	O	6/15/2019	
4400003352	KLEIN STEEL SERVICE INC 105 VANGUARD PKWY ROCHESTER, NY 14606-3100 US	STEEL BARS	E	B	5	N	N	3		14,123	0	0	14,123	11/14/2018	C		11/30/2018
4400003355	PARKS & TRAILS NEW YORK 29 ELK ST ALBANY, NY 12207 US	MISCELLANEOUS CANALWAYS COMMUNITY PROJECTS	S	2	3	N	N	1		116,956	116,956	116,956	0	11/15/2018	C		11/15/2018
4400003367	4950 GENESEE ST LLC C/O CIMINELLI REAL ESTATE CORP 350 ESSJAY RD - STE 101 WILLIAMSVILLE, NY 14221-8200 US	CONSTRUCTION OF A WALL	C	C	5	N	N	1		5,519	0	0	5,519	12/6/2018	O	12/5/2019	
4400003369	BURT CRANE & RIGGING DBA FOR SCHEIB CORP 5 VETERANS MEMORIAL DR GREEN ISLAND, NY 12183 US	CRANE RENTAL	E	M	5	N	03	1		41,001	0	0	41,001	11/20/2018	O	4/1/2019	
4400003397	NEW YORK STATE FENCE INC 858 MANITOU RD HILTON, NY 14468 US	CHAIN LINK FENCE	E	B	5	N	N	3		6,980	0	0	6,980	11/27/2018	O	1/31/2019	
4400003398	BURT CRANE & RIGGING DBA FOR SCHEIB CORP 5 VETERANS MEMORIAL DR GREEN ISLAND, NY 12183 US	PUSH BOAT REMOVAL - CRANE RENTAL	E	M	5	N	03	1		8,242	0	0	8,242	12/3/2018	C		12/31/2018
4400003409	BURT CRANE & RIGGING DBA FOR SCHEIB CORP 5 VETERANS MEMORIAL DR GREEN ISLAND, NY 12183 US	CRANE RENTAL	E	M	5	N	03	1		28,164	0	0	28,164	12/17/2018	C		12/21/2018
4400003421	EARTHCAM INC 650 E CRESCENT AVE STE 100 UPPER SADDLE RIVER, NJ 07458-1843 US	CANALS - EARTHCAM - WEB CAM EQUIPMENT AND SERVICES	H	B	7	F	N	1		393,558	0	0	393,558	12/3/2018	O	12/2/2019	
4400003425	ELLICOTT DREDGES LLC ELLICOTT DREDGE ENTERPRISES LLC, EL 1425 WICOMICO ST BALTIMORE, MD 21230 US	ELLICOTT OEM PARTS	E	2	8	F	N	1		64,455	0	0	64,455	12/4/2018	C		12/31/2018
4400003441	DELL COMPUTER CORP ONE DELL WAY ROUND ROCK, TX 78682 US	DELL DATA PROTECTION (DDPE) SERVER	I	2	5	F	N	1		8,762	8,762	8,762	0	12/6/2018	O	12/5/2019	
4400003444	ISCO INDUSTRIES INC 100 WITHERSPOON ST 2WEST LOUISVILLE, KY 40202-1396 US	DREDGE PIPE AND COUPLERS FOR LYONS LOCATION	E	B		N	N	1		75,796	0	0	75,796	12/6/2018	O	4/1/2019	

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4400003457	J M POWER AGGREGATES INC 808 PROCTOR AVENUE OGDENSBURG, NY 13669 US	NATURAL CINDERS - SS	E	M	5	N	01	1		43,400	43,400	43,400	0	12/11/2018	C		12/31/2018
4400003477	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		105,000	0	0	105,000	12/19/2018	O	12/18/2021	
4400003478	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		80,000	0	0	80,000	12/19/2018	O	12/18/2021	
4400003479	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		70,000	0	0	70,000	12/19/2018	O	12/18/2021	
4400003480	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		160,000	0	0	160,000	12/19/2018	O	12/18/2021	
4400003483	OEM AIR COMPRESSOR CORP 4600 S KOLIN AVE CHICAGO, IL 60632-4414 US	AIR COMPRESSOR	E	C	5	F	N	4		8,234	0	0	8,234	12/14/2018	C		12/31/2018
4400003485	M S C INDUSTRIAL SUPPLY CO SID TOOL CO INC 6020 N BAILEY AVE SUITE 1 AMHERST, NY 14226 US	BED LATHE	E	C	5	N	N	1		13,474	0	0	13,474	12/14/2018	C		12/31/2018
4400003486	R M LILL INC 1263 RTE 9 CASTLETON, NY 12033 US	SANDBLASTING VALVES	E	C	5	N	N	3		29,900	0	0	29,900	12/14/2018	C		12/31/2018
4400003511	SEAWAY DIVING & SALVAGE CO INC 10 GUIDEBOARD RD WATERFORD, NY 12188-1913 US	SEAWAY DIVING - URGENT	E	C	5	N	N	2		6,992	0	0	6,992	12/18/2018	C		12/18/2018
4400003516	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		50,000	0	0	50,000	12/19/2018	O	12/18/2022	
4400003537	A+ TECH & SECURITY SOLUTIONS INC 1490 NORTH CLINTON AVENUE BAY SHORE, NY 11706-4049 US	EQUIPMENT FOR CANALS AT DRY DOCK RD	H	B	7	N	N	1		19,885	0	0	19,885	12/24/2018	O	12/23/2019	
4400003545	MOLEY MAGNETICS INC 5202 COMMERCE DR LOCKPORT, NY 14094 US	REPAIR OF DC MOTOR FOR EXCHANGE ST LIFT BRIDGE IN ALBION	S	C	6	N	N	3		16,551	0	0	16,551	12/28/2018	O	6/1/2019	
4400003582	NOCO ENERGY CORP 2440 SHERIDAN DR - STE 202 TONAWANDA, NY 14150-9493 US	FUEL	E	B	7	N	N	1		90,000	0	0	90,000	12/19/2018	O	12/18/2021	
4400003583	SUNOCO LLC 3801 WEST CHESTER PIKE NEWTOWN SQUARE, PA 19073-2320 US	FUEL	E	B	7	N	N	1		45,000	0	0	45,000	12/19/2018	O	12/18/2021	
4400003584	SUNOCO LLC 3801 WEST CHESTER PIKE NEWTOWN SQUARE, PA 19073-2320 US	FUEL	E	B	7	N	N	1		190,000	0	0	190,000	12/19/2018	O	12/21/2021	
4400003585	SUNOCO LLC 3801 WEST CHESTER PIKE NEWTOWN SQUARE, PA 19073-2320 US	FUEL	E	B	7	N	N	1		65,000	0	0	65,000	12/19/2018	O	12/18/2021	

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4400003683	HILLER SYSTEMS A DIVISON OF THE HILLER CO INC 1242 EXECUTIVE BLVD CHESAPEAKE, VA 23320-2807 US	DESIGN, FURNISH AND INSTALL AUTOMATIC FIRE DETECTION SYSTEMS AND GENERAL ALARM SYSTEMS ON VARIOUS TOWING VESSELS	A	B		N	N	2		117,384	0	0	117,384	8/21/2018	O	5/31/2019	
4700000000	AECOM USA INC 605 3RD AVE NEW YORK, NY 10158-0180 US	CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES	P	B		N	N	5		30,000	22,098	22,098	7,902	1/2/2017	O	12/31/2021	
4700000001	ARCADIS OF NEW YORK INC 44 S BROADWAY - FL 15 WHITE PLAINS, NY 10601-4411 US	CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES	P	B	8	N	N	18		850,000	434,280	423,363	415,720	1/2/2017	O	12/31/2021	
4700000002	GREENMAN-PEDERSEN INC 80 WOLF RD - STE 300 ALBANY, NY 12205-2608 US	CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES	P	B	8	N	N	18		1,500,000	366,168	366,168	1,133,832	1/2/2017	O	12/31/2021	
4700000003	MOTT MACDONALD NY INC 1400 BROADWAY - FL 30 NEW YORK, NY 10018-5330 US	CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES	P	B	8	N	N	18		4,000,000	942,842	895,764	3,057,158	1/2/2017	O	12/31/2021	
4700000004	RAVI ENGINEERING & LAND SURVEYING PC 2110 S CLINTON AVE STE 1 ROCHESTER, NY 14618 US	CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES	P	B	8	N	04	18		3,620,000	871,002	871,002	2,748,998	1/2/2017	O	12/31/2021	
4700000005	BERGMANN ASSOC ARCHITECTS ENGINEERS LANDSCAPE ARCHITECTS&SURVEYORS DPC 280 E BROAD ST - STE 200 ROCHESTER, NY 14604-1740 US	ENGINEERING SERVICES	P	C	8	N	N	18		2,899,321	655,930	540,685	2,243,391	1/2/2017	O	12/31/2021	
4700000006	CHA CONSULTING INC III WINNERS CIRCLE ALBANY, NY 12205-0269 US	ENGINEERING SERVICES	P	C	8	N	N	18		2,000,000	1,453,887	1,453,887	546,113	1/2/2017	O	12/31/2021	
4700000007	LABELLA ASSOCIATES D P C 300 STATE ST - STE 201 ROCHESTER, NY 14614-1019 US	ENGINEERING SERVICES	P	C	8	N	N	18		741,828	187,928	187,928	553,900	1/2/2017	O	12/31/2021	
4700000008	GILMAN CORPORATION PO BOX 68 GILMAN, CT 06336-0068 US	CUSTOM BUOYS	E	2	8	F	01	1		73,370	60,109	17,369	13,261	3/20/2017	C		12/31/2018
4700000009	O'BRIEN & GERE ENGINEERS INC 333 W WASHINGTON ST - STE 610 SYRACUSE, NY 13202-9203 US	ENGINEERING SERVICES	P	C	8	N	N	18		1,942,500	464,904	464,904	1,477,596	1/2/2017	O	12/31/2021	
4700000010	PAUL C RIZZO ENGINEERING - NEW YORK PLLC 580 WHITE PLAINS RD - STE 4250 TARRYTOWN, NY 10591-5189 US	ENGINEERING SERVICES	P	C	8	N	N	18		3,000,000	2,106,236	1,183,135	893,764	1/2/2017	O	12/31/2021	
4700000012	NRC NY ENVIRONMENTAL SERVICES INC 6392 DEERE RD - STE 1 SYRACUSE, NY 13206-1323 US	EMERGENCY SPILL RESPONSE AND RECOVERY	P	B		N	N	3		1,500,000	18,836	18,836	1,481,164	12/12/2017	O	12/31/2020	
4700000013	CLEAN HARBORS ENVIRONMENTAL SERVICES INC 761 MIDDLE ST BRISTOL, CT 06010-7442 US	EMERGENCY SPILL RESPONSE AND RECOVERY	P	B		N	N	3		1,500,000	3,561	3,561	1,496,439	12/12/2017	O	12/31/2020	
4700000014	KLEINSCHMIDT ASSOCIATES PA PC PO BOX 650 PITTSFIELD, ME 04967-0650 US	GENERAL ENVIRONMENTAL SERVICES	P	B		F	N	29		1,600,000	786,957	786,957	813,043	12/14/2017	O	12/31/2020	

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4700000015	LABELLA ASSOCIATES PC 300 STATE ST ROCHESTER, NY 14614 US	GENERAL ENVIRONMENTAL SERVICES	P	B		N	N	29		300,000	46,938	46,938	253,062	12/14/2017	O	12/31/2020	
4700000016	LOUIS BERGER & ASSOC PC 48 WALL ST - FL 16 NEW YORK, NY 10005-2927 US	GENERAL ENVIRONMENTAL SERVICES	P	B		N	N	29		200,000	0	0	200,000	12/14/2017	O	12/31/2020	
4700000017	LIRO ENGINEERS INC 3 AERIAL WAY SYOSSET, NY 11791-5501 US	GENERAL ENVIRONMENTAL SERVICES	P	B		N	N	29		600,000	0	0	600,000	12/14/2017	O	12/31/2020	
4700000018	BERGMANN ASSOC ARCHITECTS ENGINEERS LANDSCAPE ARCHITECTS&SURVEYORS DPC 280 E BROAD ST - STE 200 ROCHESTER, NY 14604-1740 US	GENERAL ENVIRONMENTAL SERVICES	P	B		N	N	29		300,000	56,842	56,842	243,158	12/14/2017	O	12/31/2020	
4700000019	LOUIS BERGER & ASSOC PC 48 WALL ST - FL 16 NEW YORK, NY 10005-2927 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		N	N	10		100,000	0	0	100,000	12/15/2017	O	12/14/2020	
4700000020	THE RESEARCH FOUNDATION FOR SUNY PO BOX 9 ALBANY, NY 12201-0009 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B	8	N	N	10		100,000	0	0	100,000	12/15/2017	O	12/14/2020	
4700000021	LANDMARK ARCHAEOLOGY INC 6242 HAWES RD ALTAMONT, NY 12009-4606 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		N	03	10		100,000	11,500	11,500	88,500	12/17/2017	O	12/14/2020	
4700000022	TIOGA CONSTRUCTION CO INC 333 GROS BLVD HERKIMER, NY 13350-1497 US	ON DEMAND REPAIR AND RECOVERY	C	B		N	N	3		4,181,663	3,732,284	3,732,284	449,379	1/19/2018	O	12/31/2019	
4700000023	TIOGA CONSTRUCTION CO INC 333 GROS BLVD HERKIMER, NY 13350-1497 US	ON DEMAND REPAIR AND RECOVERY	C	B		N	N	3		8,111,600	6,049,553	6,049,553	2,062,047	1/19/2018	O	12/31/2019	
4700000024	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	ON DEMAND REPAIR AND RECOVERY	C	B		N	01	1		2,878,800	1,500,501	1,500,501	1,378,299	1/19/2018	O	12/31/2019	
4700000025	RICHARD GRUBB AND ASSOCIATES INC 259 PROSPECT PLAINS RD - BLDG D CRANBURY, NJ 08512-3706 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		F	03	10		75,000	0	0	75,000	12/20/2017	O	12/14/2020	
4700000026	AECOM TECHNICAL SERVICES INC 257 W GENESEE ST - STE 400 BUFFALO, NY 14202-2657 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		N	N	10		75,000	0	0	75,000	12/30/2017	O	12/14/2020	
4700000027	LOUIS BERGER US INC 412 MOUNT KEMBLE AVE MORRISTOWN, NJ 07962-6666 US	GENERAL ENVIRONMENTAL SERVICES	P	B		N	N	29		3,000,000	134,394	134,394	2,865,606	1/17/2018	O	12/31/2020	
4700000028	LOUIS BERGER US INC 412 MOUNT KEMBLE AVE MORRISTOWN, NJ 07962-6666 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		N	N	10		175,000	0	0	175,000	1/16/2018	O	12/14/2020	
4700000029	HARTGEN ARCHEOLOGICAL ASSOCIATES INC 1744 WASHINGTON AVE EXT RENSSELAER, NY 12144-9510 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		N	N	10		110,000	2,000	2,000	108,000	10/2/2017	O	10/1/2022	
4700000030	ARCHAEOLOGY & HISTORIC RESOURCE SERVICES LLC 605 TWIN ARCH RD ROCK TAVERN, NY 12575-5324 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	C		N	N	10		100,000	0	0	100,000	1/22/2018	O	12/14/2020	

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4700000031	ENVIRONMENTAL DESIGN & RESEARCH LNDSCPE ARCHIT ENGN & ENVIR SRV DPC 274 N GOODMAN ST ROCHESTER, NY 14607 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		N	03	10		75,000	0	0	75,000	2/4/2018	O	12/14/2020	
4700000032	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	FLOOD WARNING OPTIMIZATION SYSTEM CONSULTING SERVICES	P	2	8	N	N	1		600,000	244,443	244,443	355,557	3/1/2018	O	2/28/2019	
4700000033	TETRA TECH INC 6 CENTURY DR - STE 3 PARSIPPANY, NJ 07054-4611 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		F	N	10		90,000	9,878	9,878	80,122	3/14/2018	O	12/14/2020	
4700000035	BERGMANN ASSOC ARCHITECTS ENGINEERS LANDSCAPE ARCHITECTS&SURVEYORS DPC 280 E BROAD ST - STE 200 ROCHESTER, NY 14604-1740 US	STATEWIDE DAM SAFETY ENGINEERING SERVICES	P	B		N	N	13		5,000,000	0	0	5,000,000	8/8/2018	O	8/7/2023	
4700000036	GRAINGER DBA FOR W W GRAINGER INC DEPT 807245360 PALATINE, IL 60038-0001 US	MRO INDUSTRIAL SUPPLIES STATEWIDE	E	B		F	N	4		5,000,000	0	0	5,000,000	10/8/2018	O	10/7/2021	
4700000037	TIOGA CONSTRUCTION CO INC 333 GROS BLVD HERKIMER, NY 13350-1497 US	STATEWIDE ON DEMAND MARINE VESSEL RECOVERY	C	B		N	N	3		8,869,500	0	0	8,869,500	11/20/2018	O	11/19/2023	
4700000038	TIOGA CONSTRUCTION CO INC 333 GROS BLVD HERKIMER, NY 13350-1497 US	STATEWIDE ON DEMAND INFRASTRUCTURE REPAIRS	C	B		N	N	6		18,721,000	0	0	18,721,000	11/20/2018	O	11/19/2023	
4700000039	D A COLLINS CONSTRUCTION CO INC 269 BALLARD RD WILTON, NY 12831-1357 US	STATEWIDE ON DEMAND INFRASTRUCTURE REPAIRS	C	B		N	N	6		18,512,500	0	0	18,512,500	11/15/2018	O	11/14/2023	
4700000040	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	STATEWIDE ON DEMAND INFRASTRUCTURE REPAIRS	C	B		N	01	6		20,119,900	0	0	20,119,900	11/15/2018	O	11/14/2023	
4700000042	FINGER LAKES INDUSTRIAL CONTRACTING CORP 3195 E BAYARD STREET EXT SENECA FALLS, NY 13148-9702 US	DIVING SERVICES	S	M	8	N	03	2		150,000	26,401	26,401	123,599	11/13/2018	O	11/12/2019	
C010238	JOSEPH M BRESS PO BOX 5680 WASHINGTON, DC 20016-1280 US	ASSISTANCE WITH NEGOTIATION OF LABOR AGREEMENTS	P	B		N	N	1		183,854	0	0	183,854	5/23/2012	C		8/31/2018
C010242	ROSE & KIERNAN INC 99 TROY RD EAST GREENBUSH, NY 12061-1027 US	HEALTH INSURANCE BROKER	P	B		N	N	1		390,000	0	0	390,000	1/1/2014	C		12/30/2018
C010243	ROSE & KIERNAN INC 99 TROY RD EAST GREENBUSH, NY 12061-1027 US	INSURANCE BROKER SERVICES	S	B		N	N	1		210,000	0	0	210,000	11/7/2013	C		11/5/2018
C010259	PROFESSIONAL HEALTH SERVICES INC 83 S EAGLE RD HAVERTOWN, PA 19083 US	ON SITE OCCUPATIONAL MEDICAL SERVICES	S	B		N	N	1		164,276	32,819	10,624	131,457	12/1/2013	C		10/31/2018

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C010281	ENERGETIX CORPORATION 87 SAINT PAULS RD N HEMPSTEAD, NY 11550 US	EMPLOYEE DRUG AND ALCOHOL TESTING	S	B	1	N	N	1		133,501	8,343	3,681	125,158	1/1/2015	O	12/31/2019	
C010290	DAVIS VISION INC PO BOX 848376 DALLAS, TX 75284-8376 US	EMPLOYEE VISION CARE SERVICES	S	B		N	N	1		1,453,551	22,111	10,284	1,431,440	3/1/2015	O	2/28/2020	
C010306	BUFFALO NIAGARA RIVERKEEPER 721 MAIN ST BUFFALO, NY 14203 US	SCAJAQUADA CREEK PADDLESPORT LAUNCH	C	B		N	N	1		150,000	103,999	61,890	46,001	5/1/2015	C		12/30/2018
C010308	VILLAGE OF MONTOUR FALLS 408 WEST MAIN ST MONTOUR FALLS, NY 14865 US	CATHERINE TRAIL CONNECTOR PROJECT	C	B		N	N	1		30,000	0	0	30,000	12/12/2014	C		12/30/2018
C010311	FAIRPORT INDUSTRIAL DEVELOPMENT AGE 31 SOUTH MAIN ST FAIRPORT, NY 14450 US	THOMAS CREEK WETLAND PHASE II	C	B		N	N	1		50,000	0	0	50,000	12/12/2014	C		12/30/2018
C010318	N Y S OFFICE OF GENERAL SERVICES OGS - AGENCY 01050 EMPIRE STATE PLZ PO BOX 2166 ALBANY, NY 12220 US	MEDIA SERVICES	P	B		N	N	1		104,387	0	0	104,387	11/14/2014	O	11/13/2020	
C010324	WAGEWORKS INC 29 COUNTRY FAIR FL 2 TALLAHASSEE, FL 32303 US	EMPLOYEE FLEXIBLE SPENDING PROGRAM	S	B		N	N	1		33,498	1,888	1,062	31,610	8/1/2015	O	4/30/2021	
C010343	ERIE CANALWAY HERITAGE FUND INC PO BOX 219 WATERFORD, NY 12188 US	COMMUNITY AND MARKETING SERVICES	S	B	7	N	N	1		205,000	202,290	50,000	2,710	1/1/2016	C		12/31/2018
C010351	TOWN OF HALFMOON 2A HALFMOON TOWN PLZ HALFMOON, NY 12065 US	CRESCENT PARK BOAT LAUNCH PROJECT	C	B		N	N	1		100,000	0	0	100,000	12/10/2015	C		12/30/2018
C010352	TOWN OF NISKAYUNA 1 NISKAYUNA CIRCLE NISKAYUNA, NY 12309 US	AQUEDUCT PARK ACCESS IMPROVEMENT PROJECT	C	B		N	N	1		150,000	0	0	150,000	12/10/2015	C		12/30/2018
C010353	VILLAGE OF PALMYRA 144 EAST MAIN ST PALMYRA, NY 14522-1018 US	PALMYRA CANAL TRAIL CONNECTOR AND TERMINAL WALL EXTENSION	C	B		N	N	1		124,000	0	0	124,000	12/10/2015	C		12/30/2018
C010354	VILLAGE OF GREEN ISLAND 20 CLINTON ST GREEN ISLAND, NY 12183 US	BLACK BRIDGE CONNECTOR TRAIL PROJECT	C	B		N	N	1		44,000	38,707	38,707	5,293	12/10/2015	C		12/30/2018
C010356	VILLAGE OF BROCKPORT 49 STATE ST BROCKPORT, NY 14420 US	BROCKPORT CANAL IMPROVEMENT PROJECT	C	B		N	N	1		75,000	0	0	75,000	12/10/2015	C		12/30/2018
C010357	MONTGOMERY COUNTY 9 PARK ST FONDA, NY 12068 US	BIKE TRAIL RESTORATION PROJECT	C	B		N	N	1		100,000	100,000	100,000	0	12/10/2015	C		12/30/2018
C010358	VILLAGE OF FONDA PO BOX 447 8 E MAIN ST FONDA, NY 12068-9999 US	VILLAGE OF FONDA CANALSIDE PARK IMPROVEMENTS PROJECT	C	B		N	N	1		30,000	0	0	30,000	12/10/2015	C		12/30/2018
C010359	VILLAGE OF FULTONVILLE 10 ERIE ST PO BOX 337 FULTONVILLE, NY 12072-7507 US	VILLAGE OF FULTONVILLE DOCK PHASE 2	C	B		N	N	1		50,000	0	0	50,000	1/31/2016	C		12/30/2018
C1175393	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	COUNTERWEIGHT CABLES	E	B		N	N	1		93,595	93,595	93,595	0	10/18/2016	C		12/30/2018

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D214181	BERGMANN ASSOCIATES INC BERGMA 200 FIRST FEDERAL PLZ 28 E MAIN ST ROCHESTER, NY 14614 US	STATEWIDE CANAL STRUCTURES DAM SAFETY INSPECTION	S	B		N	N	1		3,503,628	1,897,343	426,914	1,606,285	4/15/2013	C		4/12/2018
D214233	K C I ENGINEERING OF NEW YORK PC PO BOX 791479 BALTIMORE, MD 21279-1479 US	STEEL REPAIRS AND PAINTING OF TOWERS	C	B		N	N	1		934,000	412,892	34,081	521,108	1/1/2014	O	1/23/2019	
D214282	RAVI ENGINEERING & LAND SURVEYING PC 2110 S CLINTON AVE STE 1 ROCHESTER, NY 14618 US	TERM AGREEMENT FOR CONSTRUCTION INSPECTION SERVICES IN WESTERN NY	S	B		N	04	1		1,500,000	0	0	1,500,000	12/3/2013	C		3/30/2018
D214285	W S A GROUP PE-PC WILBUR SMITH ASSOCIATES 11 BRITISH AMERICAN BLVD SUITE 200 LATHAM, NY 12110 US	FORT HERKIMER CHURCH TO ERIE CANAL LOCK 18: CONSTRUCT CANALWAY TRAIL, HERKIMER COUNTY	C	B		N	N	1		2,000,000	134,910	20,330	1,865,090	1/2/2014	C		3/30/2018
D214295	GREENMAN-PEDERSEN INC 80 WOLF RD STE 300 ALBANY, NY 12205 US	CLEAR AND GRUB FORT EDWARD TO FORT ANN TRAIL	C	B		N	N	1		325,000	264,533	218,090	60,467	5/21/2014	C		10/26/2018
D214297	GANNETT FLEMING ENGINEERS & ARCHITE PO BOX 829160 PHILADELPHIA, PA 19182-9160 US	CURRENT ROOF REPLACEMENT CANAL SECTION 5 OFFICE AND SHOP LYSANDER	C	B		N	N	1		1,937,933	0	0	1,937,933	4/29/2014	C		6/5/2018
D214309	CHA CONSULTING INC PO BOX 5269 ALBANY, NY 12205-0269 US	CANALWAY TRAIL PART 2 ERIE AND NIAGARA COUNTIES 8 MILES	C	B		N	N	1		1,057,000	342,598	71,408	714,402	12/1/2014	O	12/31/2019	
D214354	U S DEPARTMENT OF THE INTERIOR PO BOX 71362 PHILADELPHIA, PA 19176-1362 US	CANAL FLOOD WARNING SYSTEM	S	B		N	N	1		2,218,656	939,020	385,855	1,279,636	3/1/2014	C		9/30/2018
D214370	TIOGA CONSTRUCTION CO INC 333 GROS BLVD HERKIMER, NY 13350-1497 US	ON DEMAND INFRASTRUCTURE REPAIRS TO CANAL FACILITIES AND MARINE VESSEL RECOVERY	C	B		N	N	1		1,651,034	1,147,565	39,740	503,469	12/26/2014	C		12/30/2018
D214395	POPLI ARCHITECTURE + ENGINEERING & LS DPC 555 PENBROOKE DR PENFIELD, NY 14526-2035 US	MAY'S POINT MOVABLE DAM 18 APRON REHABILITATION SENECA COUNTY	C	B		N	04	1		2,706,010	246,445	58,540	2,459,565	4/14/2015	C		6/29/2018
D214405	SHUMAKER CONSULTING ENGINEERING & L 143 COURT ST BINGHAMTON, NY 13901 US	STORMWATER PROGRAM	C	B		N	03	1		1,000,000	11,068	103	988,932	10/22/2015	O	10/21/2019	
D214406	AECOM USA INC AECOM TECHNOLOGY CORPORATION 1178 PAYSHERE CIRCLE CHICAGO, IL 60674 US	AMSTERDAM PEDESTRIAN BRIDGE MOHAWK - ERIE CANAL	C	B		N	N	1		1,361,211	2,050	0	1,359,161	7/6/2015	C		12/5/2018
D214420	RAVI ENGINEERING & LAND SURVEYING PC 2110 S CLINTON AVE STE 1 ROCHESTER, NY 14618 US	TERM AGREEMENT FOR CONSTRUCTION INSPECTION SERVICES IN THE BUFFALO DIVISION	S	B		N	04	1		1,500,000	221,888	2,862	1,278,112	7/16/2015	C		8/30/2018
D214440	GREENMAN-PEDERSEN INC 80 WOLF RD STE 300 ALBANY, NY 12205 US	BELOW WATER INSPECTION SERVICES	S	B		N	N	1		1,800,000	1,137,832	1,050,661	662,168	9/6/2016	O	9/8/2019	

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D214441	COLLINS ENGINEERS INC 277 ALEXANDER ST - STE 307 ROCHESTER, NY 14607-1941 US	ABOVE WATER INSPECTION SERVICES	S	B		N	N	1		1,930,000	1,111,569	459,324	818,431	7/25/2016	O	7/24/2019	
D214464	ERDMAN ANTHONY AND ASSOCIATES INC 145 CULVER RD STE 200 ROCHESTER, NY 14620-1679 US	REPLACEMENT OF THE LYONS DRY DOCK MITER GATES	C	B		N	N	1		1,494,777	28,223	1,328	1,466,554	3/10/2016	O	3/29/2019	
D214500	T Y LIN INTERNATIONAL ENGINEERING A 255 EAST AVE ROCHESTER, NY 14604 US	DESIGN ENGINEERING SERVICES	S	B	8	N	N	1		3,000,000	127,789	127,789	2,872,211	3/1/2018	O	11/17/2020	
		CANALS TOTALS								252,476,765	71,954,636	58,729,038	180,522,129				

Total Number of Contracts	519	
Total Contract Value		$252,476,765
Total Expended to Date		$71,954,636
Total Expended in Report Year		$58,729,038
Status Summary	Count	Contract Value
Open Contracts	198	$210,178,116
Closed Contracts	321	$42,298,649
Method of Award Summary		
Competitive Bid	402	$236,013,346
Sole Source	23	$796,868
Single Source	30	$2,792,170
Competitive Search	49	$12,151,010
MWBE/SBE	15	$723,371
Commitment Type Summary		
Architectural and Engineering Services	2	$2,500,967
Construction	49	$154,281,209
Equipment / Goods / Commodities	307	$30,598,696
IT Hardware	5	$453,272
IT Software	6	$213,744
Legal Services	0	$0
Maintenance and Outage Services	0	$0
Personal Services	47	$39,200,121
IT Consulting and Development	0	$0
Other Non-Personal Services	103	$25,228,756
Contingent Workforce	0	$0

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4500213743	UTILITY SYSTEMS INC DBA FOR MAGNETIC INSTRUMENTATION 8431 CASTLEWOOD DR INDIANAPOLIS, IN 46250-1534 US	FURNISH AND DELIVER (1) DFR/PMU AT THE MARCY SUBSTATION	E	B		F	N	5		146,004	136,340	0	9,664	2/13/2012	C		12/31/2018
4500232674	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	AUTO-TRANSFORMERS AND REACTORS REFURBISHMENT	C	B		F	N	1		20,487,429	17,819,590	4,068,916	2,667,839	6/11/2013	O	6/30/2019	
4500235557	CASSONE LEASING INC 1950 LAKELAND AVE RONKONKOMA, NY 11779-7400 US	RENTAL - CONSTRUCTION TRAILER	E	M	8	N	03	1		23,686	23,457	0	229	9/1/2013	C		9/1/2018
4500283291	AUTOMOTIVE RENTALS INC 40001 LEADENHALL RD MOUNT LAUREL, NJ 08054-4611 US	EQUIPMENT AND VEHICLE MAINTENANCE	S	B	7	F	N	1		200,000	179,260	0	20,740	10/11/2017	C		10/10/2018
4500283775	ASSETWORKS LLC DBA FOR TRAPEZE SOFTWARE GROUP INC 998 OLD EAGLE SCHOOL RD - STE 1215 WAYNE, PA 19087-1862 US	GPS/TELEMATICS SERVICE FEE	S	B	7	F	N	1		135,000	129,364	42,650	5,636	3/28/2017	C		3/27/2018
4500285288	PRESIDIO NETWORKED SOLUTIONS GROUP DBA FOR PRESIDIO HOLDINGS INC 30 STANFORD DR - STE 2 FARMINGTON, CT 06032-2453 US	CISCO EQUIPMENT	H	B	7	N	N	2		8,913	0	0	8,913	6/5/2017	C		9/20/2018
4500285425	AMETEK PROGRAMMABLE POWER INC 9250 BROWN DEER RD SAN DIEGO, CA 92121-2267 US	SORENSEN POWER SUPPLY	E	1	1	F	N	1	*	78,762	78,762	19,625	0	5/12/2017	C		2/14/2018
4500287186	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	INSULATORS	E	B		N	N	4		51,192	51,192	51,192	0	7/5/2017	C		1/12/2018
4500287253	MAIN MOTORCAR DBA FOR HOWELL & PIERSON INC 224 W MAIN ST JOHNSTOWN, NY 12095-2306 US	DODGE DURANGO SSV	E	B	7	N	N	2		98,552	98,552	98,552	0	7/7/2017	C		2/28/2018
4500287874	LINDSEY MANUFACTURING CO 760 N GEORGIA AVE - PO BOX 877 AZUSA, CA 91702-2248 US	ERS PARTS AND DRAWINGS	E	1	1	N	N	1		132,000	110,000	110,000	22,000	7/25/2017	C		7/24/2018
4500288304	MOHAWK VALLEY FREIGHTLINER DBA FOR CADY BROOK ENTERPRISES LLC 703 ORISKANY BLVD - PO BOX 201 YORKVILLE, NY 13495-1339 US	FREIGHTLINER 114SD DUMP TRUCK WITH PLOW	E	B		N	N	4		207,292	207,292	207,292	0	8/7/2017	C		7/26/2018
4500289771	PROFESSIONAL TRADESMEN INC 235 HARRISON ST SYRACUSE, NY 13202-3023 US	COOLING TOWERS #2/#3	E	2	1	N	03	1		81,200	81,200	81,200	0	9/20/2017	C		2/16/2018
4500289989	UNITED RENTALS (NORTH AMERICA) INC UNITED RENTALS 7178 SCHUYLER RD EAST SYRACUSE, NY 13057-9743 US	RENTAL SCISSOR LIFTS	E	B	5	N	N	1		6,053	4,069	764	1,984	10/24/2017	C		12/22/2018

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4500290000	HEALTH LOGISTICS RN AND NP ADULT PASSPORT HEALTH OF NEW YORK STATE 2805 WEHRLE DR STE 2 WILLIAMSVILLE, NY 14221-7383 US	IMMUNIZATIONS	S	2	1	N	N	1		10,475	8,944	8,944	1,531	9/26/2017	C		7/12/2018
4500290001	PRIMUS ELECTRONICS CORP 4180 SAND RIDGE RD MORRIS, IL 60450-9139 US	EMERGENCY - SAT PHONES	E	2	1	F	N	1		15,585	15,585	15,585	0	9/26/2017	C		1/22/2018
4500290251	GEXPRO DBA FOR GENERAL SUPPLY & SERV INC 6460 DEERE RD - STE 1 SYRACUSE, NY 13206-1344 US	GE TRANSFORMER	E	B	6	F	N	2		8,164	8,164	8,164	0	10/3/2017	C		1/8/2018
4500290589	SNAP-ON INDUSTRIAL A DIVISION OF IDSC HOLDINGS LLC 21755 NETWORK PL CHICAGO, IL 60673-1217 US	SHOPKEY TRUCKWORKS SOFTWARE	S	1	5	N	N	1		13,605	13,605	13,605	0	10/18/2017	C		3/22/2018
4500290609	FRITEL AND ASSOCIATES LLC DIVERSIFIED PRODUCT DEVELOPMENT 1001 WEBSTER AVE WACO, TX 76706-1545 US	PHASER LIFTER	E	B		F	N	2		275,995	275,995	275,995	0	10/13/2017	C		5/1/2018
4500290733	H F BROWN MACHINE CO INC 708 STATE ST - PO BOX 849 UTICA, NY 13503 US	FABRICATE 6 COPPER TERMINALS	E	B	5	N	01	2		26,775	0	0	26,775	10/17/2017	C		1/2/2018
4500290866	PROMETEK INC 1005 NORDIQUE AVE QUEBEC CITY, PQ G1C 0C7 CA	STRUCTURE STEEL NATL	E	B	5	F	N	1		33,625	33,625	33,625	0	10/25/2017	C		6/25/2018
4500291021	LIFTECH EQUIPMENT COMPANIES INC 6847 ELLICOTT DR EAST SYRACUSE, NY 13057-1045 US	AIR COMPRESSOR PART	E	B	5	N	N	3		7,035	7,035	7,035	0	10/26/2017	C		2/9/2018
4500291039	NESCO SALES & RENTALS 3112 EAST STATE RD 124 BLUFFTON, IN 46714-9301 US	RENTAL CABLE PULLER	E	B	5	F	N	2		19,904	16,545	3,259	3,359	11/22/2017	C		1/16/2018
4500291223	MULTI MACHINE INC 2 VILET FARM RD ASBURY, NJ 08802-1171 US	PRINOTH TROOPER TRACK MACHINES	E	B		F	N	3		603,165	603,165	603,165	0	11/3/2017	C		8/3/2018
4500291286	DOBLE ENGINEERING CORP 85 WALNUT ST WATERTOWN, MA 02472 US	LEAKAGE INTERFACE	E	B	5	F	N	1		6,900	6,900	6,900	0	11/3/2017	C		1/9/2018
4500291295	EGGAN EXCAVATING EQUIPMENT CO INC 7439 TOWNLINE RD ROME, NY 13440-1450 US	ENVIRONMENTAL SERVICES	S	2	5	N	01	1		20,000	5,520	5,520	14,480	11/3/2017	C		11/1/2018
4500291432	ASCO POWER SERVICES INC 160 PARK AVE FLORHAM PARK, NJ 07932-1049 US	SPARE TRANSFER SWITCHES 400A/600A	E	B	5	F	N	3		16,609	16,609	16,609	0	11/7/2017	C		1/15/2018
4500291433	JPJ ELECTRONICS COMMUNICATIONS INC 1 W WHITESBORO ST YORKVILLE, NY 13495 US	TOWER SUPPORT PARTS	E	B	5	N	N	1		56,145	56,145	56,145	0	11/7/2017	C		7/31/2018
4500291496	NESCO SALES & RENTALS 3112 EAST STATE RD 124 BLUFFTON, IN 46714-9301 US	RENTAL HOGG AND DAVIS REEL TRAILER	E	B	5	F	N	2		9,053	9,053	1,450	0	11/9/2017	C		2/22/2018

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4500291500	ABELE TRACTOR & EQUIPMENT CO INC 72 EVERETT RD ALBANY, NY 12205 US	RENTAL D8T DOZER	E	B	5	N	N	2		16,000	16,000	16,000	0	11/9/2017	C		1/4/2018
4500291583	LITHIA OF YORKVILLE-2 LLC DON'S FORD / DON'S FORD SUPERSTORE 5712 HORATIO ST UTICA, NY 13502-1016 US	DODGE CAB AND CHASSIS	E	B	7	N	N	4		81,949	0	0	81,949	11/13/2017	O	1/30/2019	
4500291721	NORTRAX INC 1486 US HIGHWAY 11 GOUVERNEUR, NY 13642-3407 US	JRB SNOW PLOW	E	B	5	N	N	2		11,500	11,500	11,500	0	11/16/2017	C		1/15/2018
4500291803	SATCOM DIRECT INC SD 1050 SATCOM LN MELBOURNE, FL 32940-7010 US	SATELLITE PHONES	E	1	5	F	N	1		23,826	23,820	23,820	6	11/17/2017	C		1/26/2018
4500291862	DEJANA TRUCK & UTILITY EQUIPMENT COMPANY LLC 490 PULASKI RD KINGS PARK, NY 11754-1317 US	SANDER	E	B	5	N	N	2		6,035	6,035	6,035	0	12/1/2017	C		3/27/2018
4500292077	FLEET MAINTENANCE INC 67 RANSIER DR WEST SENECA, NY 14224-2290 US	FREIGHTLINER M2-106 WITH ALTEC LS87 AERIAL TRUCK	E	B	7	N	03	2		283,307	0	0	283,307	11/29/2017	C		12/21/2018
4500292441	VIKING-CIVES (USA) RR#2 BOX 36-1/2 HARRISVILLE, NY 13648-9519 US	FACTORY MOUNTS FOR PLOW HITCH	E	1	5	N	N	1		5,663	5,663	5,663	0	12/11/2017	C		1/11/2018
4500292495	GETSNO LLC 1778 VT ROUTE 105 NEWPORT, VT 05855-9717 US	LADDER RACK AND BRUSH GUARD	E	B	5	F	N	2		27,772	27,772	27,772	0	12/12/2017	C		4/17/2018
4500292539	SKYWORKS LLC 100 THIELMAN DR BUFFALO, NY 14206-2359 US	JLG 340AJ ARTICULATING BOOM LIFT	E	B		N	N	3		51,175	51,175	51,175	0	12/13/2017	C		2/9/2018
4500292561	GRAYBAR ELECTRIC CO INC 6605 DEERE RD SYRACUSE, NY 13206-1325 US	TRANSITION CABINET PARTS	E	B	5	N	N	1		23,567	23,567	23,567	0	12/13/2017	C		1/8/2018
4500292563	MEGGER 4271 BRONZE WAY DALLAS, TX 75237 US	OIL TEST SET	E	B	5	F	N	2	*	13,082	13,082	13,082	0	12/13/2017	C		3/7/2018
4500292567	VALVE INDUSTRIES INC 4 SLATE CT - APT D-2 WOODLAND PARK, NJ 07424-4247 US	TLEM PARTS	E	B	5	F	N	2		26,087	26,087	26,087	0	12/13/2017	C		1/31/2018
4500292927	SNAP-ON INDUSTRIAL A DIVISION OF IDSC HOLDINGS LLC 21755 NETWORK PL CHICAGO, IL 60673-1217 US	BRAKE FORCE METER	E	B	5	F	N	1		6,592	6,526	6,526	66	12/27/2017	C		1/17/2018
4500292952	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	FALL PROTECTION/ FLUSH CONVERTERS	E	B	5	N	01	3		17,563	17,387	17,387	176	12/27/2017	C		1/18/2018
4500292971	SNAP-ON INDUSTRIAL A DIVISION OF IDSC HOLDINGS LLC 21755 NETWORK PL CHICAGO, IL 60673-1217 US	PRO LINK ULTRA ELITE V3	E	1	6	F	N	1		73,800	73,062	73,062	738	12/28/2017	C		1/17/2018

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4500293063	NORTHLAND TRAILERS LLC 9280 RIVER RD MARCY, NY 13403-2069 US	UNITED CARGO TRAILERS	E	B		N	N	4		192,996	192,996	192,996	0	1/3/2018	C		6/26/2018
4500293080	MOHAWK VALLEY FREIGHTLINER DBA FOR CADY BROOK ENTERPRISES LLC 703 ORISKANY BLVD - PO BOX 201 YORKVILLE, NY 13495-1339 US	FREIGHTLINER CLASS EIGHT TRUCK	E	B		N	N	3		155,372	155,372	155,372	0	1/3/2018	C		11/14/2018
4500293114	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	F	N	1		6,972	6,959	6,959	13	1/4/2018	C		1/15/2018
4500293183	CITY ELECTRIC CO INC 910 FACTORY OUTLET BLVD NIAGARA FALLS, NY 14304-1596 US	TLEM CABLES/765 BREAKER	E	B		N	N	2	*	121,450	121,450	121,450	0	1/5/2018	C		4/12/2018
4500293622	ELECTRIC POWER GROUP LLC 251 S LAKE AVE STE 300 PASADENA, CA 91101-3055 US	MAINTENANCE - EPDC/PA SOFTWARE	S	2	5	F	N	1		11,090	11,090	11,090	0	1/19/2018	C		1/26/2018
4500293725	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	CISCO EQUIPMENT	H	B	7	F	04	6		6,189	6,189	6,189	0	1/22/2018	C		1/26/2018
4500294218	SIEMENS INDUSTRY INC 10900 WAYZATA BLVD - STE 400 MINNETONKA, MN 55305-5602 US	IT SUPPORT AND SERVICE	S	2	1	F	N	1		486,203	381,338	381,338	104,865	2/2/2018	O	2/1/2019	
4500294305	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	STRUCTURAL STEEL	E	B		N	01	4		53,400	53,400	53,400	0	2/6/2018	C		11/7/2018
4500294414	NATHAN STEEL CORP 36 WURZ AVE - PO BOX 299 UTICA, NY 13502-2534 US	STEEL REBAR	E	B	5	N	N	1		8,335	8,335	8,335	0	2/9/2018	C		3/7/2018
4500294597	MIRABITO FUEL GROUP 44 GRAND ST SIDNEY, NY 13838-1183 US	FUEL	E	B	7	F	N	1	*	6,200	6,200	6,200	0	2/14/2018	C		2/28/2018
4500294603	SIEMENS INDUSTRY INC 10900 WAYZATA BLVD - STE 400 MINNETONKA, MN 55305-5602 US	ANNUAL SOFTWARE	S	2	1	F	N	1		390,839	178,821	178,821	212,018	2/14/2018	O	2/13/2019	
4500294605	IBM CORP 80 STATE ST - STE 5 ALBANY, NY 12207-2543 US	MAINTENANCE AND SERVICE	S	B	7	F	N	4		77,587	77,587	77,587	0	2/14/2018	C		3/8/2018
4500294671	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	F	N	1		5,100	5,090	5,090	10	2/15/2018	C		3/1/2018
4500294742	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	SYNC PROTOCOL	E	B	5	N	01	2		34,128	34,128	34,128	0	2/20/2018	C		5/11/2018
4500294750	WESCO DISTRIBUTION INC PO BOX 390 SYRACUSE, NY 13201-0390 US	BARE COPPER WIRE	E	B	5	F	N	3		8,400	8,400	8,400	0	2/20/2018	C		3/14/2018
4500294790	BEATON INDUSTRIAL 6083 TRENTON RD UTICA, NY 13502 US	LIFTING DEVICE	E	2	5	N	N	1	*	15,144	15,144	15,144	0	2/20/2018	C		4/19/2018

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4500294798	TRACEY ROAD EQUIPMENT INC 6803 MANLIUS CENTER RD EAST SYRACUSE, NY 13057-3912 US	LOW BOY TRAILER	E	B	8	N	N	2		102,698	102,698	102,698	0	2/20/2018	C		8/3/2018
4500294809	CITY ELECTRIC CO INC 910 FACTORY OUTLET BLVD NIAGARA FALLS, NY 14304-1596 US	JUMBO 4U	E	B	5	N	N	2		17,946	17,946	17,946	0	2/21/2018	C		4/17/2018
4500294955	SIEMENS INDUSTRY INC 10900 WAYZATA BLVD - STE 400 MINNETONKA, MN 55305-5602 US	SOFTWARE SUPPORT SERVICES	S	1	1	F	N	1		391,432	391,432	391,432	0	2/26/2018	C		3/8/2018
4500295048	NESCO SALES & RENTALS 3112 EAST STATE RD 124 BLUFFTON, IN 46714-9301 US	RENTAL - DIGGER DERRICK/ BUCKET TRUCK	E	B	5	N	N	2		42,260	38,943	38,943	3,317	2/28/2018	C		6/9/2018
4500295162	SCHWEITZER ENGINEERING LAB INC C/O ROBINSON SALES INC 100 W SIXH ST - STE 4 MEDIA, PA 19063-2433 US	SEL EQUIPMENT	E	B		F	N	1		55,750	55,750	55,750	0	3/2/2018	C		4/13/2018
4500295261	J & J EQUIPMENT LLC 9055 BREWERTON RD BREWERTON, NY 13029-8509 US	RENTAL - SWEEPER	E	B	5	N	N	1		9,450	9,450	9,450	0	3/6/2018	C		5/31/2018
4500295622	OLDCASTLE PRECAST INC 1002 15TH ST SW - STE 110 AUBURN, WA 98001-6502 US	CABLE TRENCH 7302/3302	E	B		F	N	1		229,304	229,304	229,304	0	3/16/2018	C		6/27/2018
4500295807	SKYWORKS LLC 100 THIELMAN DR BUFFALO, NY 14206-2359 US	TEREX HP 32/35	E	B	5	N	N	1		26,500	22,315	22,315	4,185	3/22/2018	C		6/5/2018
4500295814	VANTAGE EQUIPMENT LLC 5985 COURT STREET RD SYRACUSE, NY 13206-1707 US	RENTAL CAT D8T	E	B	5	N	N	1		8,999	7,398	7,398	1,601	3/22/2018	C		5/15/2018
4500295815	ABELE TRACTOR & EQUIP CO INC 72 EVERETT RD ALBANY, NY 12205-1499 US	D8T DOZER RENTAL	E	B	5	N	N	1		27,000	23,464	23,464	3,536	3/22/2018	C		5/15/2018
4500295869	XL HYBRIDS INC 145 NEWTON ST BOSTON, MA 02135-1508 US	ELECTRIC VEHICLE CONVERSION	S	B	5	N	N	1		10,990	10,990	10,990	0	3/23/2018	C		6/14/2018
4500296009	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	F	N	1		6,120	6,104	6,104	16	3/29/2018	C		4/5/2018
4500296041	H F BROWN MACHINE CO INC 708 STATE ST - PO BOX 849 UTICA, NY 13503 US	METAL FABRICATION	E	B	5	N	01	1		21,840	21,840	21,840	0	3/29/2018	C		6/18/2018
4500296108	MIRABITO FUEL GROUP 44 GRAND ST SIDNEY, NY 13838-1183 US	FUEL	E	B	7	F	N	1		5,950	5,941	5,941	9	4/3/2018	C		4/3/2018
4500296193	AUTOMOTIVE RENTALS INC 40001 LEADENHALL RD MOUNT LAUREL, NJ 08054-4611 US	FLEET MAINTENANCE	S	B	7	F	N	1		400,000	99,835	99,835	300,165	4/4/2018	O	4/3/2019	
4500296239	SNAP-ON TOOLS CORP 91 CEDAR ST MILFORD, MA 01757 US	SNAP-ON TOOL SET	E	B	5	N	N	3		13,349	13,349	13,349	0	4/5/2018	C		5/7/2018
4500296251	LEBERGE & CURTIS INC 5984 CR27 CANTON, NY 13617 US	EXCAVATOR RENTAL	E	B	5	N	N	1		26,600	26,600	26,600	0	4/5/2018	C		5/3/2018

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4500296261	UNITED RENTALS (NORTH AMERICA) INC UNITED RENTALS 7178 SCHUYLER RD EAST SYRACUSE, NY 13057-9743 US	F650 RENTAL	E	B	5	N	N	2		17,250	17,175	17,175	75	4/6/2018	C		9/12/2018
4500296360	ABELE TRACTOR & EQUIP CO INC 72 EVERETT RD ALBANY, NY 12205-1499 US	EXCAVATOR RENTAL	E	B	5	N	N	2		58,300	47,770	47,770	10,530	4/9/2018	C		10/11/2018
4500296424	CENTRAL NEW YORK CONSTRUCTION INC 8228 STATE RT 28 BARNEVELD, NY 13304 US	EMERGENCY SPRINKLER LEAK	S	2	5	N	03	1		21,799	21,799	21,799	0	4/10/2018	C		4/11/2018
4500296507	HAUN WELDING SUPPLY INC 728 BROAD ST UTICA, NY 13501 US	MILLERMATIC WELDING SYSTEM	E	B	5	N	N	4		6,592	6,592	6,592	0	4/12/2018	C		7/20/2018
4500296518	DIANE M SCHNIER 10081 MULANEY RD MARCY, NY 13403-2038 US	TRAINING - VOICE OVER SERVICES	S	2	9	N	N	1		5,000	2,048	2,048	2,952	4/12/2018	O	4/11/2019	
4500296533	WESCO DISTRIBUTION INC PO BOX 390 SYRACUSE, NY 13201-0390 US	SOUTHERN STATES FUSE HOLDERS	E	B	6	F	N	2		13,125	13,125	13,125	0	4/13/2018	C		7/20/2018
4500296644	VERIZON CONNECT NWF INC 9868 SCRANTON RD SAN DIEGO, CA 92121 US	GPS/TELEMATICS SERVICE	S	B	7	F	N	1		135,000	58,075	58,075	76,925	4/17/2018	O	4/16/2019	
4500296948	UNITED RENTALS (NORTH AMERICA) INC UNITED RENTALS 7178 SCHUYLER RD EAST SYRACUSE, NY 13057-9743 US	TRUCK RENTAL	E	B	5	N	N	2		19,574	19,574	19,574	0	4/26/2018	C		12/7/2018
4500297083	ABELE TRACTOR & EQUIP CO INC 72 EVERETT RD ALBANY, NY 12205-1499 US	RENTAL EXCAVATOR	E	B	5	N	N	3		24,700	9,100	9,100	15,600	4/30/2018	C		7/24/2018
4500297251	MEGGER 4271 BRONZE WAY DALLAS, TX 75237 US	TRANSDUCER	E	B	5	F	N	2	*	6,278	6,278	6,278	0	5/4/2018	C		6/5/2018
4500297253	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	RAD EQUIPMENT	E	B	5	N	01	2		8,713	8,626	8,626	87	5/4/2018	C		7/2/2018
4500297439	YOKOGAWA CORPORATION OF AMERICA C/O APPLIED MEASUREMENT & CONTROL 314 HOGAN RD FAIRPORT, NY 14450-8414 US	YOKOGAWA COMPONENTS	E	B	5	F	N	3		13,235	13,235	13,235	0	5/10/2018	C		8/31/2018
4500297516	UNITED RENTALS (NORTH AMERICA) INC UNITED RENTALS 7178 SCHUYLER RD EAST SYRACUSE, NY 13057-9743 US	JLG M400AJPN	E	B		N	N	2		57,539	57,539	57,539	0	5/11/2018	C		7/24/2018
4500297529	MILTON CAT 294 AINSLEY DR SYRACUSE, NY 13210-4203 US	BROOM ATTACHMENT	E	B	7	N	N	1		6,422	6,422	6,422	0	5/11/2018	C		6/20/2018

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4500297571	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	5	F	N	1		7,614	7,605	7,605	9	5/15/2018	C		5/21/2018
4500297609	PIONEER MOTORSPORT INC 12220 OLEAN RD CHAFFEE, NY 14030-9767 US	ELECTRIC VEHICLES	E	B		N	N	1		124,087	124,087	124,087	0	5/15/2018	C		12/17/2018
4500297658	LEAD DATA TECHNOLOGIES INC PO BOX 295 NANUET, NY 10954-0295 US	CHECKPOINT ENTERPRISE	S	B	7	N	N	1		42,129	42,129	42,129	0	5/16/2018	C		6/8/2018
4500297665	HASGO POWER EQUIPMENT SALES INC 151 E MAIN RD - PO BOX 400 LE ROY, NY 14482-1237 US	ARCHING CONTACT	E	B	5	N	N	2		32,992	0	0	32,992	5/16/2018	O	5/15/2019	
4500297666	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	INSULATORS	E	B	5	N	N	2		22,050	0	0	22,050	5/16/2018	O	5/15/2019	
4500297668	WESCO DISTRIBUTION INC PO BOX 390 SYRACUSE, NY 13201-0390 US	POWER SUPPLY	E	B	5	N	N	3		22,225	22,225	22,225	0	5/16/2018	C		7/25/2018
4500297763	MIRABITO FUEL GROUP 44 GRAND ST SIDNEY, NY 13838-1183 US	FUEL	E	B	7	F	N	1		7,279	7,265	7,265	14	5/21/2018	C		7/20/2018
4500297901	ROBERT GREEN AUTO & TRUCK INC 236 BRIDGEVILLE RD MONTICELLO, NY 12701-3853 US	DODGE DURANGO SSV	E	B	7	N	N	2		65,728	65,728	65,728	0	5/24/2018	C		11/13/2018
4500297924	HERC RENTALS INC 4578 BUCKLEY RD LIVERPOOL, NY 13088-2509 US	RENTAL DUMP TRUCK	E	B	5	N	N	1		12,046	12,046	12,046	0	5/24/2018	C		8/3/2018
4500298281	WARNER SALES & SERVICE INC 6470 GREENWAY NEW LONDON RD ROME, NY 13440-1606 US	BOBCAT SKIDSTEER/TOOLCAT	E	B	7	N	N	1		135,050	135,050	135,050	0	6/7/2018	C		9/28/2018
4500298331	ENTERPRISE HOLDINGS INC DBA ENTPERPRISE RENT A TRUCK 1320 BROOKS AVE ROCHESTER, NY 14624-3116 US	RENTAL OF COMPACT SUV NIA	E	B	5	N	N	1		6,488	5,564	5,564	924	6/8/2018	C		11/30/2018
4500298513	DOBLE ENGINEERING CORP 85 WALNUT ST WATERTOWN, MA 02472 US	PROTECTION SOFTWARE RENEWAL	S	1	5	F	N	1		6,800	6,800	6,800	0	6/14/2018	C		7/26/2018
4500298558	GRASSLAND EQUIPMENT & IRRIGATION CORP 892-898 TROY SCHENECTADY RD LATHAM, NY 12110-1698 US	ELECTRIC UTILITY VEHICLE	E	B	5	N	N	3		15,423	15,423	15,423	0	6/18/2018	C		8/13/2018
4500298833	SOUTHWORTH-MILTON INC 294 AINSLEY DR SYRACUSE, NY 13205 US	EXCAVATOR ATTACHMENT	E	B	7	N	N	1		39,865	39,865	39,865	0	6/26/2018	C		8/1/2018
4500298962	NYE AUTOMOTIVE GROUP INC 1479 GENESEE ST ONEIDA, NY 13421 US	5 FORD F250	E	B	7	N	N	9		183,069	183,069	183,069	0	6/29/2018	C		11/16/2018
4500299002	NORTHLAND TRAILERS LLC 9280 RIVER RD MARCY, NY 13403-2069 US	SPLIT DECK TRAILER	E	B	5	N	N	1		12,377	12,377	12,377	0	7/2/2018	C		10/9/2018
4500299044	D & W DIESEL INC 51 SICKER RD LATHAM, NY 12110 US	REMANUFACTURE ENGINE	E	B	5	N	N	1		17,647	14,647	14,647	3,000	7/5/2018	C		7/30/2018

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4500299141	ROBERT GREEN AUTO & TRUCK INC 236 BRIDGEVILLE RD MONTICELLO, NY 12701-3853 US	RAM 5500	E	B	7	N	N	4		85,427	85,427	85,427	0	7/9/2018	C		11/14/2018
4500299152	HENDERSON FORD MV1 OF ROCHESTER HENDERSON FORD WEBSTER FORD INC 810 RIDGE RD WEBSTER, NY 14580 US	FORD F550	E	B	7	N	04	5		85,222	0	0	85,222	7/9/2018	O	4/8/2019	
4500299153	MERCEDES-BENZ OF SYRACUSE DBA FOR ROMANO MOTORS LTD 5433 N BURDICK ST FAYETTEVILLE, NY 13066-8601 US	MERCEDES VAN	E	B	5	N	N	3		30,190	0	0	30,190	7/9/2018	O	4/8/2019	
4500299174	WARNER SALES & SERVICE INC 6470 GREENWAY NEW LONDON RD ROME, NY 13440-1606 US	T770 TRACK LOADER	E	B	7	N	N	1		92,842	92,842	92,842	0	7/10/2018	C		9/27/2018
4500299224	THREADED FASTENERS INC 358 SAINT LOUIS ST MOBILE, AL 36602-2825 US	CORTEN BOLTS	E	B	5	F	N	2		13,400	11,399	11,399	2,001	7/11/2018	C		9/12/2018
4500299225	MIRABITO FUEL GROUP 44 GRAND ST SIDNEY, NY 13838-1183 US	FUEL	E	B	7	F	N	1	*	6,816	6,816	6,816	0	7/11/2018	C		8/8/2018
4500299272	DRIVERS VILLAGE INC 5885 E CIRCLE DR STE 200 CICERO, NY 13039-8753 US	MITSUBISHI OUTLANDERS	E	B		N	N	2		65,740	65,740	65,740	0	7/12/2018	C		7/25/2018
4500299430	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	F	N	1		6,810	6,805	6,805	5	7/18/2018	C		8/8/2018
4500299488	H F BROWN MACHINE CO INC 708 STATE ST - PO BOX 849 UTICA, NY 13503 US	COPPER TERMINALS	E	B	5	N	01	1		20,280	20,280	20,280	0	7/19/2018	C		9/26/2018
4500299639	LITHIA OF YORKVILLE-2 LLC DON'S FORD / DON'S FORD SUPERSTORE 5712 HORATIO ST UTICA, NY 13502-1016 US	3 SUBARU OUTBACK 2.5I	E	B	7	N	N	1		79,500	79,500	79,500	0	7/24/2018	C		11/14/2018
4500299651	J & J EQUIPMENT LLC 9055 BREWERTON RD BREWERTON, NY 13029-8509 US	THREE (3) YEAR AGREEMENT FOR RENTAL OF A TYMCO 600 SWEEPER STL	E	B	5	N	N	2		28,350	0	0	28,350	7/24/2018	O	6/1/2021	
4500299738	BEYER OF MORRISTOWN LLC 200 RIDGEDALE AVE MORRISTOWN, NJ 07960-4089 US	FOUR CHRYSLER PACIFICA TOURING HYBRID VEHICLES	E	B	7	N	N	3		164,697	0	0	164,697	7/26/2018	O	1/4/2019	
4500299755	VAN BORTEL FORD INC FAIRPORT FORD MERGED WITH VAN BORTE 71 MARSH RD EAST ROCHESTER, NY 14445 US	FORD F350 XL CREW CAB	E	B	7	N	N	5		42,839	42,839	42,839	0	7/26/2018	C		12/5/2018
4500299835	FILTREC CORP 5440 LOCKWOOD RD AUBURN, NY 13021-8110 US	LIFT INSTALL	S	B	5	N	N	1		13,315	0	0	13,315	7/30/2018	O	7/29/2019	
4500299901	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	CONDUCTOR	E	B	5	N	01	2		66,438	65,779	65,779	659	8/1/2018	C		10/9/2018

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4500299902	VALVE INDUSTRIES INC 4 SLATE CT - APT D-2 WOODLAND PARK, NJ 07424-4247 US	ROOFTOP PACKED SYSTEM	E	B	5	F	N	1		13,545	13,545	13,545	0	8/1/2018	C		10/17/2018
4500299951	NESCO SALES & RENTALS 3112 EAST STATE RD 124 BLUFFTON, IN 46714-9301 US	RENTAL OF A CABLE REEL TRAILER NIA	E	B	6	N	N	2		10,056	10,056	10,056	0	8/2/2018	C		8/20/2018
4500299954	MULTI MACHINE INC 2 VILET FARM RD ASBURY, NJ 08802-1171 US	RENTAL OF A PRINOTH PANTHER T14R RUBBER TRACK CARRIER STL	E	B	5	N	N	3		27,800	27,800	27,800	0	8/2/2018	C		9/16/2018
4500299956	NESCO SALES & RENTALS 3112 EAST STATE RD 124 BLUFFTON, IN 46714-9301 US	RENTAL OF A 2010 TEREX RMS-75 AERIAL ON PRINOTH GT2000 CHASSIS	E	B	5	N	N	2		88,445	77,978	77,978	10,467	8/2/2018	C		12/17/2018
4500299958	SKYWORKS LLC 100 THIELMAN DR BUFFALO, NY 14206-2359 US	RENTAL OF TWO JLG MODEL 450AJ BOOM LIFTS BG	E	B	5	N	N	3		8,217	4,140	4,140	4,077	8/2/2018	C		10/18/2018
4500299979	UNITED RENTALS (NORTH AMERICA) INC UNITED RENTALS 7178 SCHUYLER RD EAST SYRACUSE, NY 13057-9743 US	RENTAL - TELEHANDLER	E	B	5	N	N	2		7,424	3,887	3,887	3,537	8/3/2018	C		8/27/2018
4500300002	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	TRIPWIRE ENTERPRISE	S	B	7	F	N	1		47,173	47,173	47,173	0	8/3/2018	C		10/24/2018
4500300004	GOVERNMENT MARKETING & PROCUREMENT LLC 13350 RANCH RD 12 WIMBERLEY, TX 78676-5304 US	SECUNIA VULNERABILITY INTELLIGENCE FEED	S	B	7	F	N	1		42,317	42,317	42,317	0	8/3/2018	C		9/12/2018
4500300005	CENTRAL NEW YORK CONSTRUCTION INC 8228 STATE RT 28 BARNEVELD, NY 13304 US	EXCAVATE AND REPLACE PIV'S	C	B	5	N	03	1		7,400	7,400	7,400	0	8/3/2018	C		9/12/2018
4500300015	UNITED RENTALS (NORTH AMERICA) INC UNITED RENTALS 7178 SCHUYLER RD EAST SYRACUSE, NY 13057-9743 US	JLG 660SJC (2)	E	B		N	N	1		244,655	244,655	244,655	0	8/3/2018	C		10/10/2018
4500300017	VALVE INDUSTRIES INC 4 SLATE CT - APT D-2 WOODLAND PARK, NJ 07424-4247 US	INSULATORS	E	B		F	N	1		302,763	0	0	302,763	8/3/2018	O	1/17/2019	
4500300036	CARMODY FORD INC 1111 STATE ROUTE 29 GREENWICH, NY 12834-6108 US	ONE FORD F350 REG CAB, ONE FORD F350 CREW CAB	E	B	7	N	N	6		77,215	77,215	77,215	0	8/6/2018	C		12/12/2018
4500300040	DEERE & COMPANY AG & TURF CBD & GOVERNMENT SALES 2000 JOHN DEERE RUN CARY, NC 27513-2789 US	FOUR XUV835M JOHN DEERE ATV	E	B	7	N	N	1		111,676	111,676	111,676	0	8/6/2018	C		11/13/2018

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4500300151	UNITED RENTALS (NORTH AMERICA) INC UNITED RENTALS 7178 SCHUYLER RD EAST SYRACUSE, NY 13057-9743 US	RENTAL OF BOOM LIFT	E	B	5	N	N	2		16,337	11,795	11,795	4,542	8/8/2018	O	2/20/2019	
4500300216	VALVE INDUSTRIES INC 4 SLATE CT - APT D-2 WOODLAND PARK, NJ 07424-4247 US	TEST TERMINALS	E	B	5	F	N	1		11,795	11,795	11,795	0	8/9/2018	C		11/5/2018
4500300323	VANTAGE EQUIPMENT LLC 5985 COURT STREET RD SYRACUSE, NY 13206-1707 US	ASPHALT ROLLER RENTAL	E	B	5	N	N	2		7,000	5,800	5,800	1,200	8/14/2018	C		10/3/2018
4500300368	CONCORDE SPECIALTY GASES INC 36 EATON RD EATONTOWN, NJ 07724 US	SF6 REMOVAL	S	B	5	N	N	1		23,685	7,895	7,895	15,790	8/15/2018	O	8/14/2019	
4500300436	MITCHELL 1 PO BOX 509044 SAN DIEGO, CA 92150-9044 US	SNAP-ON SHOPKEY	I	2	5	F	N	1		21,538	20,050	20,050	1,488	8/16/2018	O	8/15/2019	
4500300525	SKYWORKS LLC 100 THIELMAN DR BUFFALO, NY 14206-2359 US	RENTAL OF JLG 1200SJP	E	B	5	N	N	2		24,154	24,154	24,154	0	8/20/2018	C		12/20/2018
4500300553	OCUTO BLACKTOP & PAVING CO INC 846 LAWRENCE ST ROME, NY 13440-8102 US	PAVING	M	B	5	N	03	1		78,646	78,646	78,646	0	8/20/2018	C		11/30/2018
4500300625	SKYWORKS LLC 100 THIELMAN DR BUFFALO, NY 14206-2359 US	RENTAL HYDRA PLATFORM HP35/180 STL	S	B	6	N	N	4		20,170	16,465	16,465	3,705	8/22/2018	C		10/3/2018
4500300894	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	F	N	1		7,798	7,798	7,798	0	8/30/2018	C		11/30/2018
4500300895	MIRABITO FUEL GROUP 44 GRAND ST SIDNEY, NY 13838-1183 US	FUEL	E	B	7	F	N	1	*	6,810	6,810	6,810	0	8/30/2018	C		10/2/2018
4500300920	NAVISTAR INC INTERNATIONAL TRUCK & ENGINE CORP 399 ALBANY SHAKER RD SUITE 202 LOUDONVILLE, NY 12211 US	DUMP TRUCK PURCHASE	E	B	7	N	N	1		1,579,161	0	0	1,579,161	8/30/2018	O	5/23/2019	
4500300971	EMPIRE CRANE CO LLC 7021 PERFORMANCE DR NORTH SYRACUSE, NY 13212 US	RENTAL OF TEREX CD225 CRANE	E	B	5	F	N	1		5,320	3,320	3,320	2,000	9/4/2018	C		9/13/2018
4500301083	ANDERSON EQUIPMENT CO 2140 MILITARY RD TONAWANDA, NY 14150-6002 US	RENTAL OF EXCAVATOR WITH SHEAR ATTACHMENT NIA	E	B	5	N	N	3		5,745	5,245	5,245	500	9/6/2018	C		10/9/2018
4500301210	VIKING-CIVES (USA) RR#2 BOX 36-1/2 HARRISVILLE, NY 13648-9519 US	DETACHABLE SNOW BLOWER PURCHASE	E	B		N	N	4		92,696	92,696	92,696	0	9/10/2018	C		11/1/2018
4500301475	HUBBELL POWER SYSTEMS INC 210 N ALLEN ST CENTRALIA, MO 65240-1302 US	TELEMETRY	E	B		F	N	1		211,553	174,711	174,711	36,842	9/18/2018	O	1/3/2019	

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4500301486	JOHNSON CONTROLS INC 130 JOHN MUIR DR - STE 100 AMHERST, NY 14228-1139 US	JCI RENEWAL	R	B	7	N	N	1		71,748	39,223	39,223	32,525	9/18/2018	O	9/17/2019	
4500301491	MULTI MACHINE INC 2 VILET FARM RD ASBURY, NJ 08802-1171 US	PRINOTH PANTHER T14R TRACKED VEHICLE	E	B		N	N	1		357,305	357,305	357,305	0	9/18/2018	C		12/6/2018
4500301504	VALVE INDUSTRIES INC 4 SLATE CT - APT D-2 WOODLAND PARK, NJ 07424-4247 US	AAON HVAC	E	B	5	F	N	2		15,418	15,418	15,418	0	9/18/2018	C		12/19/2018
4500301700	VERMEER NORTHEAST DBA FOR NYNE EQUIPMENT LLC 224 SOUTH ST HOPKINTON, MA 01748-2209 US	RENTAL OF VAC-TRON VACUUM TRAILER STL	E	B	5	N	N	2		18,900	13,100	13,100	5,800	9/24/2018	C		11/19/2018
4500301702	S & W SERVICES INC 6057 CORPORATE DR - STE 3 EAST SYRACUSE, NY 13057-1068 US	EMERGENT SUMP REPLACEMENT	S	2	5	N	N	1		12,632	12,632	12,632	0	9/24/2018	C		12/4/2018
4500301718	PAT'S TIRE & SERVICE INC 501 ERIE BLVD W ROME, NY 13440-4805 US	MOUNT AND DISMOUNT MICHELIN XZA4 TIRES ON TMS8 CRANE	E	B	5	F	N	1		11,280	11,280	11,280	0	9/25/2018	C		10/31/2018
4500301797	WESCO DISTRIBUTION INC 120 GALLERIA DR CHEEKTOWAGA, NY 14225-5193 US	ASSEMBLY BOARD	E	B	5	N	N	2		6,850	6,850	6,850	0	9/27/2018	C		10/23/2018
4500301834	LITHIA OF YORKVILLE-2 LLC CARBONE CHRYSLER DODGE JEEP RAM 5017 COMMERCIAL DR YORKVILLE, NY 13495-1105 US	FORD F150 PICKUP TRUCKS (8)	E	B		N	N	1		298,224	0	0	298,224	9/27/2018	O	1/30/2019	
4500302015	HERC RENTALS INC 4578 BUCKLEY RD LIVERPOOL, NY 13088-2509 US	RENTAL OF FORD F550 DUMP TRUCK WITH PLOW AND SANDER	E	B	5	N	N	1		22,155	5,075	5,075	17,080	10/3/2018	O	1/16/2019	
4500302115	FLEET MAINTENANCE INC 67 RANSIER DR WEST SENECA, NY 14224-2290 US	CLASS 8 HEAVY DUTY TRUCKS	E	B		N	03	6		403,369	0	0	403,369	10/5/2018	O	3/31/2019	
4500302156	TRS INC 7314 SCHUYLER RD EAST SYRACUSE, NY 13057-9737 US	TRAILER REFURBISHMENT	S	B		N	N	1		68,042	0	0	68,042	10/9/2018	O	5/2/2019	
4500302170	GRASSLAND EQUIPMENT & IRRIGATION CORP 892-898 TROY SCHENECTADY RD LATHAM, NY 12110-1698 US	TORO GROUNDSMASTER MODEL 7210	E	B	7	N	N	1		55,890	55,890	55,890	0	10/9/2018	C		12/11/2018
4500302297	ABELE TRACTOR & EQUIPMENT CO INC 72 EVERETT RD ALBANY, NY 12205 US	RENTAL OF KOBELCO SK300LC-10 EXCAVATOR WITH BUCKET AND THUMB	E	B	5	N	N	1		9,750	0	0	9,750	10/15/2018	C		11/13/2018
4500302307	CAPPELLINO CHEVROLET INC 9000 BOSTON STATE RD BOSTON, NY 14025 US	THREE CHEVY BOLT EV'S, ONE CHEVY VOLT	E	B	7	N	N	1		132,132	31,000	31,000	101,132	10/15/2018	O	3/17/2019	
4500302325	CARMODY FORD INC 1111 STATE ROUTE 29 GREENWICH, NY 12834-6108 US	2019 FORD XL SUPERCREW F150 4X4 WITH 5.5 BOX (FIVE)	E	B	7	N	N	6		179,194	0	0	179,194	10/15/2018	O	1/17/2019	
4500302341	LEBERGE & CURTIS INC 5984 CR27 CANTON, NY 13617 US	RENTAL OF POLARIS GEM E4 VEHICLE - STL	E	B	5	N	N	1		5,010	2,505	2,505	2,505	10/16/2018	O	2/1/2019	

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4500302459	MORBARK LLC PO BOX 1000 WINN, MI 48896-1000 US	2 DRUM CHIPPERS LINE CREW	E	B	7	N	N	1		96,590	0	0	96,590	10/18/2018	C		12/27/2018
4500302520	TRANSITOWNE MITSUBISHI DBA FOR TRANSITOWNE WILLIAMSVILLE L 7428 TRANSIT RD WILLIAMSVILLE, NY 14221-6019 US	SEVEN MITSUBISHI OUTLANDER PHEV	E	B		N	N	2		239,540	239,540	239,540	0	10/19/2018	C		11/20/2018
4500302628	TEREX UTILITIES INC DBA TEREX SERVICES N4W22610 BLUEMOUND RD WAUKESHA, WI 53186-1623 US	HYDRAULIC CYLINDER	E	1	5	F	N	1		9,936	9,936	9,936	0	10/23/2018	O	10/22/2019	
4500302650	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	F	N	1	*	7,618	7,618	7,618	0	10/24/2018	C		11/30/2018
4500302724	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	F	N	1	*	8,367	8,367	8,367	0	10/26/2018	C		11/30/2018
4500302739	ADMAR SUPPLY CO INC 1394 MILITARY RD BUFFALO, NY 14217 US	RENTAL OF WACKER NEUSON EW100 WHEELED EXCAVATOR - NIA	E	B	5	N	N	3		6,635	5,340	5,340	1,295	10/26/2018	C		11/15/2018
4500302868	NOWAK INDUSTRIAL LLC 145 SUZETTE DR CHEEKTOWAGA, NY 14227-3701 US	FOUR (4) TOYOTA RAV4 HYBRID VEHICLES	E	B		N	02	2		126,876	126,876	126,876	0	10/31/2018	C		12/6/2018
4500302906	GRAYBAR ELECTRIC CO INC 229 CHURCH ST ALBANY, NY 12202-1060 US	TLEM PARTS	E	B	5	N	N	1		54,110	54,110	54,110	0	11/1/2018	C		12/27/2018
4500302968	ROBERT GREEN AUTO & TRUCK INC 236 BRIDGEVILLE RD MONTICELLO, NY 12701-3853 US	TWO DODGE RAM 550 CAB AND CHASSIS	E	B		N	N	2		153,785	0	0	153,785	11/2/2018	O	2/5/2019	
4500303027	LAKE ASSAULT BOATS LLC 1 CLOUGH AVE SUPERIOR, WI 54880-1300 US	TWO 2019 LAKE ASSAULT WORK BOATS	E	B		N	N	2		109,457	0	0	109,457	11/5/2018	O	4/30/2019	
4500303169	LITHIA OF YORKVILLE-2 LLC CARBONE CHRYSLER DODGE JEEP RAM 5017 COMMERCIAL DR YORKVILLE, NY 13495-1105 US	FOUR 2019 FORD F550 CAB AND CHASSIS	E	B		N	N	1		333,087	0	0	333,087	11/7/2018	O	8/31/2019	
4500303175	JAMES CAR OF ROME LLC 1925 BLACK RIVER BLVD N ROME, NY 13440-2429 US	THREE MITSUBISHI OUTLANDER PHEV'S	E	B		N	N	4		98,937	98,937	98,937	0	11/7/2018	C		11/29/2018
4500303270	STEET PONTE FORD INC 5074 COMMERCIAL DR YORKVILLE, NY 13495-1106 US	SEVEN 2019 FORD F350 SRW CAB CHASSIS	E	B		N	N	2		427,903	0	0	427,903	11/9/2018	O	5/9/2019	
4500303274	ABELE TRACTOR & EQUIPMENT CO INC 72 EVERETT RD ALBANY, NY 12205 US	RENTAL OF A CAT D8T DOZER AND BOMAG BW213 VIBRATORY ROLLER NIA	E	B	5	N	N	1		35,000	21,000	21,000	14,000	11/9/2018	C		12/13/2018
4500303289	NESCO SALES & RENTALS 3112 EAST STATE RD 124 BLUFFTON, IN 46714-9301 US	RENTAL OF HYDRA 985 CABLE REEL TRAILER - NIA	E	B	5	N	N	1		16,812	9,856	9,856	6,956	11/13/2018	C		12/13/2018
4500303492	EMPIRE CRANE CO LLC 7021 PERFORMANCE DR NORTH SYRACUSE, NY 13212 US	2019 TEREX DEMAG AC55-3 60 TON ALL TERRAIN CRANE	E	B		N	N	3		839,500	0	0	839,500	11/20/2018	O	4/30/2019	

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4500303498	HERC RENTALS INC 4578 BUCKLEY RD LIVERPOOL, NY 13088-2509 US	RENTAL 2 ELECTRIC JLG E450AJ LIFTS - GRAHAMSVILLE	E	B	5	N	N	1		7,069	0	0	7,069	11/20/2018	C		12/13/2018
4500303545	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	BLASTOFF MAXI CABINET	E	B	5	N	01	1		7,225	0	0	7,225	11/21/2018	O	11/20/2019	
4500303580	JAMES CAR OF ROME LLC 1925 BLACK RIVER BLVD N ROME, NY 13440-2429 US	MITSUBISHI OUTLANDER PHEV SEL (1)	E	B	5	N	N	1		35,279	35,279	35,279	0	11/26/2018	C		12/21/2018
4500303696	CONTINUUM SYSTEMS DBA FOR RTB INC 2401 BURNET AVE SYRACUSE, NY 13206-3029 US	VOICE RECORDER MAINTENANCE	R	2	5	N	N	1		6,734	6,734	6,734	0	11/29/2018	C		11/29/2018
4500303723	EGGAN EXCAVATING EQUIPMENT CO INC 7439 TOWNLINE RD ROME, NY 13440-1450 US	ENVIRONMENTAL SERVICES	S	2	5	N	01	1		20,000	0	0	20,000	11/29/2018	O	11/28/2019	
4500303729	ELECTRIC POWER GROUP LLC 251 S LAKE AVE STE 300 PASADENA, CA 91101-3055 US	PHASOR SUPPORT AND MAINTENANCE	I	2	5	F	N	1		11,090	11,090	11,090	0	11/29/2018	C		12/13/2018
4500303794	IBM CORP 80 STATE ST - STE 5 ALBANY, NY 12207-2543 US	MAINTENANCE - IBM	R	B	7	F	N	1		57,397	0	0	57,397	12/3/2018	O	12/2/2019	
4500303839	HATCH ASSOCIATES CONSULTANTS INC 100 SYLVAN PKWY AMHERST, NY 14228-1146 US	MAINTENANCE - VISTA DSS	I	1	5	F	N	1		25,000	0	0	25,000	12/4/2018	O	12/3/2019	
4500303880	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	TRANSFER SWITCHES	E	B	5	N	01	1		49,900	0	0	49,900	12/5/2018	O	2/15/2019	
4500303922	MULTI MACHINE INC 2 VILET FARM RD ASBURY, NJ 08802-1171 US	PRINOTH TROOPER TRACKED VEHICLE	E	B			N	N	1		218,400	0	0	218,400	12/5/2018	O	1/30/2019	
4500303938	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	DEAD END ASSEMBLY	E	B	5	N	N	1		11,984	0	0	11,984	12/6/2018	O	12/5/2019	
4500304019	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	F	N	1		7,280	7,172	7,172	108	12/10/2018	O	1/8/2019	
4500304022	REGIONAL INTERNATIONAL OF WNY INC 1007 LEHIGH STATION HENRIETTA, NY 14467 US	2019 TRAIL-EZE TE401A SLIDING AXLE TILT DECK TRAILER	E	B			N	N	1		65,325	0	0	65,325	12/10/2018	O	4/30/2019	
4500304063	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	F	N	1		5,861	5,819	5,819	42	12/11/2018	O	1/8/2019	
4500304080	ACCESS COMPLIANCE LLC 776A WATERVLIET SHAKER RD LATHAM, NY 12110-2209 US	MEDICAL SERVICES	S	2	5	N	N	1		47,000	1,065	1,065	45,935	12/11/2018	O	12/10/2019	
4500304131	VANTAGE EQUIPMENT LLC 5985 COURT STREET RD SYRACUSE, NY 13206-1707 US	TWO -2019 JUNGHEINRICH EFT220-36 ELECTRIC FORKLIFTS	E	B			N	N	6		68,248	0	0	68,248	12/12/2018	O	4/30/2019	

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4500304229	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	ACRONIS BACKUP	I	B	5	N	04	2		20,520	0	0	20,520	12/14/2018	O	1/3/2019	
4500304372	THOMPSON & JOHNSON EQUIPMENT CO INC 6926 FLY RD EAST SYRACUSE, NY 13057-9660 US	2 CLARK C25 FORKLIFTS, 1 DREXEL SLT-30AC FORKLIFT	E	B		N	N	6		119,126	0	0	119,126	12/19/2018	O	4/30/2019	
4500304494	H F BROWN MACHINE CO INC 708 STATE ST - PO BOX 849 UTICA, NY 13503 US	COPPER TERMINALS	E	B	5	N	01	1		20,280	0	0	20,280	12/21/2018	O	12/20/2019	
4500304495	INDUSTRIAL PRECISION PRODUCTS INC 350 MITCHELL ST RD #1 OSWEGO, NY 13126-3620 US	RUNNER SEAL FLANGE	E	B	5	N	01	1		13,900	0	0	13,900	12/21/2018	O	12/18/2019	
4500304534	GLOBAL INDUSTRIES INC C/O HUMMELS 17 W STOW RD MARLTON, NJ 08053-3116 US	FURNITURE	E	B	7	F	N	1		7,256	0	0	7,256	12/26/2018	O	1/18/2019	
4600002761	NORTHLINE UTILITIES LLC DBA FOR NORTHLINE VENTURES INC 15 SCHOOL LN - STE 200 AU SABLE FORKS, NY 12912 US	TRANSMISSION EMERGENCY RESPONSE SERVICES	S	B		N	01	3		2,500,000	0	0	2,500,000	2/7/2014	O	2/6/2019	
4600002762	MICHELS POWER A DIV OF MICHELS CORP 1775 E SHADY LN NEENAH, WI 54956 US	TRANSMISSION EMERGENCY RESPONSE SERVICES	S	B		F	N	3		2,500,000	0	0	2,500,000	2/7/2014	O	2/6/2019	
4600002825	AVIATION SERVICES UNLIMITED LLC PO BOX 629 ORISKANY, NY 13424 US	HELICOPTER SERVICES	S	B		N	N	2		900,000	656,170	132,604	243,830	8/1/2014	C		12/31/2018
4600002977	CONCORDE SPECIALTY GASES INC 36 EATON RD EATONTOWN, NJ 07724 US	SF6	E	B		F	N	3		250,000	56,171	5,870	193,829	7/1/2015	C		6/30/2018
4600003160	WASTE MANAGEMENT OF NY-UTICA 2003 BLEECKER ST UTICA, NY 13501-1711 US	WASTE REMOVAL FROM CLARK ENERGY CENTER	S	B	7	N	N	2		80,000	28,746	13,517	51,254	4/1/2016	O	3/31/2020	
4600003271	HAVERFIELD AVIATION INC 1750 EMMITSBURG RD GETTYSBURG, PA 17325 US	AERIAL INSPECTIONS	S	B		F	N	2		999,999	742,815	322,925	257,184	1/27/2017	O	1/26/2022	
4600003318	LECHASE CONSTRUCTION SERVICES LLC 1473 ERIE BLVD SCHENECTADY, NY 12305-1004 US	CONSTRUCTION OF EMERGENCY ENERGY CONTROL CENTER	C	B		N	N	2		12,000,000	9,602,376	9,081,065	2,397,624	6/1/2017	O	7/31/2019	
		CEC TOTALS								55,758,910	37,522,484	21,732,411	18,236,426				

POWER AUTHORITY OF THE STATE OF NEW YORK
2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS
REQUIRED BY N.Y. PUBLIC AUTHORITIES LAW, SECTION 2879

Total Number of Contracts	210	
Total Contract Value		$55,758,910
Total Expended to Date		$37,522,484
Total Expended in Report Year		$21,732,411
Status Summary	Count	Contract Value
Open Contracts	56	$46,416,516
Closed Contracts	154	$9,342,394
Method of Award Summary		
Competitive Bid	183	$53,798,071
Sole Source	10	$760,824
Single Source	16	$1,176,329
Competitive Search	0	$0
MWBE/SBE	1	$23,686
Commitment Type Summary		
Architectural and Engineering Services	0	$0
Construction	3	$32,494,829
Equipment / Goods / Commodities	166	$13,324,024
IT Hardware	2	$15,102
IT Software	4	$78,148
Legal Services	0	$0
Maintenance and Outage Services	1	$78,646
Personal Services	0	$0
IT Consulting and Development	3	$135,879
Other Non-Personal Services	31	$9,632,282
Contingent Workforce	0	$0

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4300011241	CAMEROTA TRUCK PARTS TRADE NAME FOR S CAMEROTA & SONS IN PO BOX 1134 ENFIELD, CT 06083-1134 US	TRANSMISSION	E	C	5	N	N	5		6,010	6,010	6,010	0	8/17/2018	C		8/30/2018
4500211243	BENTLY NEVADA INC 475 CREAMERY WAY EXTON, PA 19341-2546 US	FURNISH, DELIVER, INSTALL CONDITION MONITORING SYSTEMS	E	B		F	N	1		815,412	668,396	0	147,016	1/3/2012	O	12/31/2022	
4500260915	CRYSTAL ROCK LLC DBA FOR CRYSTAL ROCK HOLDINGS INC 840 AERO DR CHEEKTOWAGA, NY 14225-1451 US	BOTTLED WATER DELIVERY AND COOLER PURCHASE/RENTAL	E	B	5	N	N	1		33,000	32,594	8,016	406	7/1/2015	C		6/30/2018
4500277535	DIVAL SAFETY EQUIPMENT INC 1721 NIAGARA ST BUFFALO, NY 14207-3108 US	SAFETY EYEWEAR	E	B	5	F	N	2		15,000	13,470	5,694	1,530	10/3/2016	C		12/31/2018
4500277540	KORRECT OPTICAL 3801 BISHOP LN LOUISVILLE, KY 40218-2905 US	SAFETY EYEWEAR	E	B	5	F	N	2		5,000	2,080	921	2,920	10/3/2016	C		12/31/2018
4500280634	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	TRIPWIRE ENTERPRISE LICENSES AND SERVICE	E	B	7	N	N	1		61,539	60,475	3,684	1,064	1/13/2017	C		2/20/2018
4500280641	OVIVO USA LLC PO BOX 673076 DETROIT, MI 48267-3076 US	TRAVELLING SCREEN PARTS AND ON-SITE INSTALL ASSISTANCE	E	1	8	F	N	1		131,803	114,253	0	17,550	1/26/2017	C		1/19/2018
4500281604	SIEMENS INDUSTRY INC 85 NORTHPOINTE PKWY - STE 8 AMHERST, NY 14228-1886 US	SIEMENS SERVICE BLDG AUTOMATION SYSTEM	S	B	5	N	N	1		23,263	23,263	5,816	0	2/1/2017	C		1/31/2018
4500281791	MODERN DISPOSAL SERVICES INC PO BOX 209 MODEL CITY, NY 14107-0209 US	TLEM REFUSE REMOVAL/DISPOSAL	S	B	5	N	N	1		18,000	3,046	0	14,954	2/6/2017	C		2/5/2018
4500281975	SIMMERS CRANE DESIGN & SERVICES CO DBA FOR POLLOCK REASEARCH & DESIGN 1134 SALEM PKWY SALEM, OH 44460-1063 US	RMNPP 100T GANTRY BUS PARAPET REPAIRS AND UPGRADE	C	B			F	N	1	2,044,637	2,044,014	102,142	623	2/7/2017	C		2/6/2018
4500282191	JOHNSON CONTROLS INC 130 JOHN MUIR DR - STE 100 AMHERST, NY 14228-1139 US	PACS SERVICE AND MAINTENANCE AGREEMENT	S	B	7	N	N	1		114,588	114,588	0	0	3/1/2017	C		2/28/2018
4500282774	KAMAN INDUSTRIAL TECHNOLOGIES CORP PO BOX 30672 HARTFORD, CT 06150 US	DACS MAINTENANCE AND SUPPORT SERVICES	S	1	8	N	N	1		99,000	87,500	85,800	11,500	3/1/2017	C		2/28/2018
4500283443	WARTSILA DEFENSE INC 3617 KOPPENS WAY CHESAPEAKE, VA 23323-2531 US	TURBINE GUIDE BEARING	E	B		F	N	5		123,350	122,550	122,550	800	12/7/2017	C		2/20/2018
4500283625	BUFFALO INDUSTRIAL CHEMICALS INC PO BOX 664 NORTH TONAWANDA, NY 14120 US	WATER COOLING TOWER TREATMENT SERVICES	S	B	5	N	N	1		17,000	10,616	6,888	6,384	3/27/2017	C		3/26/2018
4500283738	CINTAS CORP NO 2 5740 GENESEE ST LANCASTER, NY 14086-9734 US	FLOOR MAT RENTAL	E	B	5	N	N	3		23,000	13,223	6,567	9,777	4/6/2017	C		4/5/2018

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4500283960	DORITEX CORP 11980 WALDEN AVE ALDEN, NY 14004-9709 US	SORBENT RUGS AND INDUSTRIAL WIPERS SERVICE	S	B		N	N	2		95,000	88,909	24,997	6,091	4/4/2017	C		4/3/2018
4500284064	ENCORUS GROUP ENGINEERING PC 23 MECHANIC ST - PO BOX 344 SPRINGVILLE, NY 14141-0344 US	RM ASSEMBLY BAY FLOOR ENG. INSPECTIONS	S	M	8	N	02	1		111,778	111,778	33,442	0	10/23/2017	C		6/1/2018
4500284241	UNITED RENTALS (NORTH AMERICA) INC DBA RELIABLE ONSITE SERVICES 100 FIRST STAMFORD PL - STE 700 STAMFORD, CT 06902-9200 US	RESTROOM TRAILER RENTAL AND SERVICE	E	B	5	N	N	1		34,480	34,480	9,235	0	4/27/2017	C		4/26/2018
4500284349	FOX FENCE INC 2637 LOCKPORT RD NIAGARA FALLS, NY 14305 US	SECURITY FENCE MAINTENANCE AGREEMENT	S	B	5	N	01	1		24,500	11,632	5,479	12,868	4/20/2017	C		4/19/2018
4500285254	DIGITAL SURVEILLANCE SOLUTIONS INC STE 4 2727 BROADWAY ST BUFFALO, NY 14227-1070 US	ICE BOOM CAMERA SERVICE AGREEMENT	S	B	5	N	N	1		25,000	25,000	0	0	5/15/2017	C		5/1/2018
4500285389	CADIMENSIONS INC 180 LAWRENCE BELL DR STE 104 WILLIAMSVILLE, NY 14221-7888 US	SOLIDWORKS SOFTWARE	E	B	5	N	N	1		7,990	7,990	0	0	5/19/2017	C		3/26/2018
4500285399	SIEMENS INDUSTRY INC 85 NORTHPOINTE PKWY - STE 8 AMHERST, NY 14228-1886 US	FIRMWARE UPGRADES	E	B	5	N	N	1		14,515	14,515	7,257	0	5/12/2017	C		5/30/2018
4500285583	GE INTELLIGENT PLATFORMS INC C/O AUTOMATECH INC 138 INDUSTRIAL PARK RD PLYMOUTH, MA 02360-7243 US	GE GLOBALCARE SOFTWARE SUPPORT	S	1	5	N	N	1		25,625	25,625	0	0	6/27/2017	C		6/26/2018
4500286522	HASGO POWER EQUIPMENT SALES INC 151 E MAIN RD - PO BOX 400 LE ROY, NY 14482-1237 US	242KV BREAKER PARTS AND REPAIRS	E	B	5	N	N	1		51,645	51,645	20,910	0	6/14/2017	C		2/21/2018
4500288090	GROVE ROOFING SERVICES INC 131 READING ST BUFFALO, NY 14220 US	HOIST BUILDING ROOF REPAIRS	S	B		N	N	1		117,260	81,810	81,810	35,450	8/1/2017	C		11/30/2018
4500288102	DAVIS-ULMER SPRINKLER CO INC 1 COMMERCE DR AMHERST, NY 14228-2395 US	FIRE PROTECTION SYSTEMS MAINTENANCE/REPAIRS	S	B	5	N	N	1		24,900	3,531	1,841	21,369	8/1/2017	C		7/31/2018
4500288857	AMERICAN ROCK SALT CO LLC DBA FOR AMERICAN ROCK SALT HOLDING PO BOX 190 MOUNT MORRIS, NY 14510-0190 US	ROCK SALT	E	B	5	N	N	1		19,263	19,149	19,149	114	9/6/2017	C		5/1/2018
4500289017	BRENNTAG NORTH AMERICA INC BWE-LLC (NOCO LUBRICANTS) 42 RUMSEY RD EAST HARTFORD, CT 06108-1133 US	TURBINE LUBE OIL	E	B		N	N	1		127,283	62,402	46,953	64,881	8/28/2017	O	12/30/2019	
4500289082	TP WOODSIDE INC 60 LAWRENCE BELL DR WILLIAMSVILLE, NY 14221-7074 US	VARIABLE FREQUENCY DRIVES	E	B	5	F	N	2		48,816	39,016	1,400	9,800	11/3/2017	O	3/31/2019	
4500289119	ANNESE & ASSOCIATES INC 7 SUTTON PL - STE E BREWSTER, NY 10509-3537 US	NETWORK SERVICES - POWER VISTA WIFI	E	M	5	F	03	1		20,811	20,811	0	0	10/29/2017	C		10/28/2018

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4500289162	APPLIED INSPECTION SERVICES INC 153 WALES AVE TONAWANDA, NY 14150-2507 US	NON-DESTRUCTIVE EXAMINATION SERVICES	S	B	5	N	N	2		28,305	2,741	2,741	25,564	9/5/2017	C		9/4/2018
4500289220	TP WOODSIDE INC 60 LAWRENCE BELL DR WILLIAMSVILLE, NY 14221-7074 US	AIR HANDLING UNIT	E	B	5	F	N	1		39,425	38,425	38,425	1,000	9/5/2017	C		4/30/2018
4500289741	MORRIS MASONRY RESTORATION LLC 441 BAILEY AVE BUFFALO, NY 14210-1732 US	CORRUGATED SIDING INSTALLATION	C	B	5	N	N	3		81,225	81,225	81,225	0	10/19/2017	C		4/1/2018
4500290598	INDUSTRIAL ELECTRICAL AND TECHNICAL SERVICES INC (IETS) 7265 SLOCUM RD LIMA, NY 14485-9455 US	BREAKER REFURBISHMENT AND ENTILLIGUARD INSTALLATION	S	B	5	N	N	2		56,025	56,025	8,275	0	12/5/2017	C		1/12/2018
4500290606	CITY ELECTRIC CO INC 910 FACTORY OUTLET BLVD NIAGARA FALLS, NY 14304-1596 US	AMP CERTI CRIMP TOOL	E	B	5	N	N	2		10,350	10,350	10,350	0	10/13/2017	C		2/20/2018
4500290632	NORTHERN SAFETY CO INC 232 INDUSTRIAL PARK DR UTICA, NY 13504-4250 US	PPE CAVITATION REPAIRS	E	B	5	N	N	2		5,732	5,533	0	199	10/13/2017	C		1/2/2018
4500290656	WILMAC BUSINESS EQUIPMENT CO INC 73 STATE ST ROCHESTER, NY 14614-1369 US	SERVICE AGREEMENT NICE NPX SYSTEM	S	1	5	N	N	1		10,390	10,390	0	0	1/1/2018	C		12/31/2018
4500290846	HASGO POWER EQUIPMENT SALES INC 151 E MAIN RD - PO BOX 400 LE ROY, NY 14482-1237 US	INTERRUPTER REPAIR KITS	E	B	5	F	N	1		34,247	34,247	34,247	0	10/20/2017	C		1/31/2018
4500290912	ST LAWRENCE VALLEY CONCRETE LLC 1600 STATE ROUTE 11 BRUSHTON, NY 12916-4305 US	CONCRETE PLANKS	E	B	5	N	N	2		8,625	8,625	8,625	0	10/23/2017	C		1/31/2018
4500291103	3075109 CANADA INC THERMOFIN 47 MARIE-VICTORIN CANDIAC, PQ J5R 1B6 CA	THRUST BEARING COOLERS	E	B		F	N	1		53,176	53,176	53,176	0	11/3/2017	C		11/30/2018
4500291172	ABB INC 10300 HENRI-BOURASSA WEST ST LAURENT, PQ H4S 1N6 CA	POWER SUPPLY UNIT	E	B	5	F	N	1		9,797	9,797	9,797	0	10/31/2017	C		2/20/2018
4500291454	HAFCO FOUNDRY & MACHINE CO INC 301 GREENWOOD AVE MIDLAND PARK, NJ 07432-1484 US	SHEAR PINS	E	B	5	N	N	3		21,300	21,300	21,300	0	11/8/2017	C		3/31/2018
4500291461	MODERN DISPOSAL SERVICES INC PO BOX 209 MODEL CITY, NY 14107-0209 US	GENERAL REFUSE REMOVAL SERVICES	S	B	7	N	N	1		98,000	72,382	67,530	25,618	11/10/2017	C		11/9/2018
4500291585	AMERICAN GOVERNOR CO 27 RICHARD RD IVYLAND, PA 18974-1512 US	WOODWARD GOVERNOR FILTERS	E	B	5	F	N	1		21,684	21,684	19,877	0	11/13/2017	C		11/12/2018
4500291727	GENERAL ELECTRIC INTERNATIONAL INC 4200 WILDWOOD PKWY ATLANTA, GA 30339 US	BOAT PROPELLER SHAFT REFURBISHMENT	S	B	5	F	N	1		41,054	14,182	14,182	26,872	11/16/2017	C		9/20/2018

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4500291748	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	PACS MONITORING SYSTEM RENEWAL	E	B	5	F	N	1		8,931	8,931	0	0	1/13/2018	O	1/31/2019	
4500291760	TP WOODSIDE INC 60 LAWRENCE BELL DR WILLIAMSVILLE, NY 14221-7074 US	VARIABLE FREQUENCY DRIVES	E	B	5	F	N	1		22,075	21,375	21,375	700	12/6/2017	C		11/16/2018
4500291924	DILO COMPANY INC 11642 PYRAMID DR ODESSA, FL 33556-3449 US	SF6 MEASURING DEVICE	E	B	5	F	N	3		17,960	17,960	17,960	0	11/22/2017	C		2/20/2018
4500291941	FM OFFICE EXPRESS INC DBA FM OFFICE PRODUCTS 106 DESPATCH DR - STE 2 EAST ROCHESTER, NY 14445-1448 US	MECHANICS TOOLS	E	B	5	F	04	2		10,879	6,664	5,188	4,215	11/22/2017	C		3/31/2018
4500292035	HEWLETT PACKARD CO ATTN: EXPRESS SUPPORT QUOTES 8000 FOOTHILLS BLVD ROSEVILLE, CA 95747-5754 US	MAINTENANCE - HP SCADA COMPUTER	S	B	5	N	N	1		11,543	11,543	11,543	0	11/1/2017	C		10/31/2018
4500292069	ENTERPRISE TECHNOLOGY SOLUTIONS INC 323 W HUNTER LN FREMONT, CA 94539-6308 US	INDUSTRIAL COMPACT COMPUTERS	E	B		F	N	3		81,100	81,100	81,100	0	11/29/2017	C		2/20/2018
4500292156	JOHN W DANFORTH CO 300 COLVIN WOODS PKWY TONAWANDA, NY 14150-6976 US	DUCT RISERS	E	B	5	N	N	2		27,000	27,000	27,000	0	11/30/2017	C		1/31/2018
4500292287	INDUSTRIAL ELECTRICAL AND TECHNICAL SERVICES INC (IETS) 7265 SLOCUM RD LIMA, NY 14485-9455 US	CIRCUIT BREAKER REPAIRS	E	B	5	N	N	3		25,940	25,940	25,940	0	12/5/2017	C		6/30/2018
4500292316	NIAGARA LAWN & GARDEN INC 4833 SAUNDERS SETTLEMENT RD NIAGARA FALLS, NY 14305 US	SNOW REMOVAL SERVICES	S	2	5	N	N	1		6,825	6,500	6,500	325	12/6/2017	C		4/30/2018
4500292355	WATERLOGIC USA INC PO BOX 677867 DALLAS, TX 75267-7867 US	WATER FILTRATION UNITS AND INSTALLATION/MAINTENANCE	E	B	5	F	01	1		42,250	39,500	39,500	2,750	12/7/2017	O	6/23/2019	
4500292391	DIVAL SAFETY EQUIPMENT INC 1721 NIAGARA ST BUFFALO, NY 14207-3108 US	PAPR WELDING SUPPLIES	E	B	5	N	N	2		5,816	5,816	5,816	0	12/8/2017	C		3/26/2018
4500292508	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	CISCO SPARE PARTS	E	B	5	F	04	2		9,328	9,328	9,328	0	12/12/2017	C		2/20/2018
4500292513	SIEMENS INDUSTRY INC 10900 WAYZATA BLVD - STE 400 MINNETONKA, MN 55305-5602 US	HVAC AUTOMATION CONTROL PACKAGE	E	1	8	N	N	1		124,409	62,205	62,205	62,204	12/12/2017	O	3/31/2019	
4500292568	H & V SALES INC 2800 WALDEN AVE STE A CHEEKTOWAGA, NY 14225-4749 US	CONTROL DAMPERS	E	B	5	F	N	1		9,825	9,825	9,825	0	12/13/2017	C		2/20/2018
4500292581	S & B COMPUTER & OFFICE PRODUCTS INC 17 WOOD RD - STE 700 ROUND LAKE, NY 12151 US	OFFICE SUPPLIES	E	M	8	N	04	1		61,750	44,175	44,175	17,575	1/1/2018	C		12/31/2018
4500292597	DIVAL SAFETY EQUIPMENT INC 1721 NIAGARA ST BUFFALO, NY 14207-3108 US	MUSTANG SURVIVAL SUITS AND EQUIPMENT	E	B	5	F	N	2		9,152	9,152	9,152	0	12/14/2017	C		3/31/2018

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4500292726	FLOWER CITY COMMUNICATIONS INC 1848 LYELL AVE ROCHESTER, NY 14606-2318 US	MOTOROLA EQUIPMENT	E	B	5	N	N	2		11,183	11,183	11,183	0	12/19/2017	C		2/21/2018
4500292821	WNY OCCUPATIONAL HEALTH CARE 621 10TH ST - PO BOX 708 NIAGARA FALLS, NY 14301-1813 US	PRE-EMPLOYMENT / OFF SITE ANNUAL PHYSICALS	P	B	5	N	N	3		41,158	16,494	16,494	24,664	1/1/2018	C		12/31/2018
4500292893	GEXPRO DBA FOR GENERAL SUPPLY & SERV INC 6460 DEERE RD - STE 1 SYRACUSE, NY 13206-1344 US	LPGP HEADGATE INSPECTION LAMPS	E	B	5	N	N	2		7,226	7,226	7,226	0	12/26/2017	C		3/26/2018
4500292940	CITY ELECTRIC CO INC 910 FACTORY OUTLET BLVD NIAGARA FALLS, NY 14304-1596 US	SOLAR LIGHTING SYSTEM	E	B	5	N	N	3	*	21,975	21,975	21,975	0	12/27/2017	C		6/30/2018
4500293009	REXEL INC 505 DUKE RD - STE 400 CHEEKTOWAGA, NY 14225-5101 US	COMBINATION STARTERS	E	B	5	F	N	1		5,925	5,925	5,925	0	1/2/2018	C		2/20/2018
4500293012	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	HPE PROLIANT DL380	E	B	5	F	04	2		11,496	11,496	11,496	0	1/2/2018	C		1/24/2018
4500293016	FRONTIER INSULATION CONTRACTORS 2101 KENMORE AVE BUFFALO, NY 14207 US	INSULATION SERVICES	S	B	5	N	N	2		45,000	0	0	45,000	3/21/2018	O	3/20/2019	
4500293057	ANIXTER INC 2301 PATRIOT BLVD GLENVIEW, IL 60026 US	ELECTRICAL CABLES	E	B	5	F	N	1	*	37,052	37,052	37,052	0	1/3/2018	C		2/20/2018
4500293076	R P ADAMS DBA FOR ADAMS SFC INC 225 E PARK DR TONAWANDA, NY 14150-7813 US	AFTERCOOLER AND MOISTURE SEPARATOR	E	B	5	N	N	1		14,188	14,188	14,188	0	1/3/2018	C		4/30/2018
4500293086	LAKES PIPE & SUPPLY CORP PO BOX 429 NIAGARA FALLS, NY 14302-5966 US	LPGP BIG CHILL PIPES	E	B	5	N	N	1		9,908	9,710	9,710	198	1/3/2018	C		2/20/2018
4500293090	NOCO ENERGY CORP 2440 SHERIDAN DR - STE 202 TONAWANDA, NY 14150-9493 US	UNLEADED GAS	E	B	5	N	N	1		7,334	7,334	7,334	0	1/4/2018	C		2/20/2018
4500293102	ASCENSION INDUSTRIES INC 1254 ERIE AVE N TONAWANDA, NY 14120 US	AIR RECEIVING TANKS	E	B	5	N	N	2		14,320	14,320	14,320	0	1/4/2018	C		4/2/2018
4500293340	JOHN W DANFORTH CO 300 COLVIN WOODS PKWY TONAWANDA, NY 14150-6976 US	EXHAUST FAN INSTALLATION - TE-1 PV	S	B	5	N	N	1		8,900	8,900	8,900	0	1/11/2018	C		3/31/2018
4500293361	R P ADAMS DBA FOR ADAMS SFC INC 225 E PARK DR TONAWANDA, NY 14150-7813 US	REDUCER GEAR	E	B	5	F	N	2		8,342	8,342	8,342	0	1/11/2018	C		2/20/2018
4500293373	SCOTT ELECTRIC SUPPLY INC 3253 WALDEN AVE DEPEW, NY 14043-2821 US	GENERATOR PROTECTION RELAY	E	B	5	F	N	2		13,353	13,353	13,353	0	1/11/2018	C		2/20/2018

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4500293406	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	HOIST SNATCH BLOCKS	E	B	5	F	N	1		9,351	9,351	9,351	0	1/12/2018	C		2/20/2018
4500293786	NORTHLAND COMMUNICATIONS PO BOX 419 HOLLAND PATENT, NY 13354-0419 US	PBX PHONE SYSTEM FOR E. ACTION PLAN	S	2	5	N	N	1		7,000	7,000	7,000	0	1/24/2018	C		6/30/2018
4500293990	GRAYBAR ELECTRIC CO INC 229 CHURCH ST ALBANY, NY 12202-1060 US	CHILLER INSTALL PARTS	E	B	5	N	N	2	*	7,213	7,213	7,213	0	1/30/2018	C		3/26/2018
4500294186	INDUSTRIAL ELECTRICAL AND TECHNICAL SERVICES INC (IETS) 7265 SLOCUM RD LIMA, NY 14485-9455 US	BREAKER REFURBISHMENTS	E	B	5	N	N	4		23,000	23,000	23,000	0	2/2/2018	C		6/30/2018
4500294207	NOCO ENERGY CORP 2440 SHERIDAN DR - STE 202 TONAWANDA, NY 14150-9493 US	FUEL	E	B	5	N	N	1		7,778	7,778	7,778	0	2/2/2018	C		2/20/2018
4500294397	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	HPE SERVER PARTS	E	B	5	N	04	1		8,300	8,300	8,300	0	2/8/2018	C		3/26/2018
4500294424	ALPINE POWER SYSTEMS INC 24355 CAPITOL AVE - STE 1 REDFORD, MI 48239-2466 US	BATTERY SYSTEM UPGRADE EQUIPMENT	E	B		F	N	10		107,124	107,124	107,124	0	2/9/2018	C		7/30/2018
4500294449	R P ADAMS DBA FOR ADAMS SFC INC 225 E PARK DR TONAWANDA, NY 14150-7813 US	AUTOMATIC WATER STRAINERS	E	B		N	N	4		147,680	147,680	147,680	0	2/9/2018	C		9/23/2018
4500294461	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	FIREWALLS - CISCO EQUIPMENT	H	B	7	F	04	5		11,976	11,976	11,976	0	2/9/2018	C		2/23/2018
4500294558	KURK FUEL OIL CO DBA FOR GOETZ ENERGY CORP PO BOX A BUFFALO, NY 14217-0305 US	FUEL	E	B	5	N	01	1		8,272	8,272	8,272	0	2/13/2018	C		3/26/2018
4500294576	AMERICAN GOVERNOR CO 27 RICHARD RD IVYLAND, PA 18974-1512 US	WOODWARD GOVERNOR SPARE PARTS	E	B	5	F	N	1		27,961	26,177	26,177	1,784	2/14/2018	C		4/30/2018
4500294610	DOWD BATTERY CO INC 1571 BRONSON RD GRAND ISLAND, NY 14072-2910 US	DEKA BATTERIES	E	B	5	F	01	1		26,040	26,040	26,040	0	2/14/2018	C		3/26/2018
4500294618	LAKES PIPE & SUPPLY CORP PO BOX 429 NIAGARA FALLS, NY 14302-5966 US	ROSS VALVE	E	B	5	N	N	2		13,400	13,132	13,132	268	2/14/2018	C		6/30/2018
4500294749	SIEMENS INDUSTRY INC 7000 SIEMENS RD WENDELL, NC 27591-8309 US	SCADA SM2 REPLACEMENT UPGRADES	E	1	5	F	N	1		40,445	40,445	40,445	0	2/20/2018	C		6/30/2018
4500294872	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	THREADING MACHINE	E	B	5	F	N	3		8,558	8,558	8,558	0	2/22/2018	C		3/26/2018
4500294967	JOHNSON CONTROLS INC 130 JOHN MUIR DR - STE 100 AMHERST, NY 14228-1139 US	MAINTENANCE - SECURITY SYSTEMS	S	B	7	N	N	1		135,000	135,000	135,000	0	3/1/2018	O	2/28/2019	
4500294980	STEELCASE INC C/O PRENTICE OFFICE ENVIRONMENTS 901 44TH ST SE GRAND RAPIDS, MI 49508-7594 US	FURNITURE	E	B	5	N	N	1		17,294	17,294	17,294	0	2/26/2018	C		6/30/2018

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4500294998	WESCO DISTRIBUTION INC 500 PRIME PL HAUPPAUGE, NY 11788-5305 US	IMMERSION HEATERS	E	B	5	N	N	2		12,460	12,460	12,460	0	2/27/2018	C		6/30/2018
4500295024	CITY ELECTRIC CO INC 910 FACTORY OUTLET BLVD NIAGARA FALLS, NY 14304-1596 US	ELECTRICAL MATERIALS	E	B	5	F	N	3		7,274	7,274	7,274	0	2/27/2018	C		4/16/2018
4500295051	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	ASA MODULES	E	B	5	F	04	1		28,938	28,938	28,938	0	2/28/2018	C		6/30/2018
4500295131	HADLEY EXHIBITS INC 1700 ELMWOOD AVE BUFFALO, NY 14207-2408 US	REGISTRATION KIOSKS AND MOBILE EXHIBITS	E	1	8	N	N	1		168,773	168,773	168,773	0	3/1/2018	C		11/16/2018
4500295245	SIEMENS INDUSTRY INC 85 NORTHPOINTE PKWY - STE 8 AMHERST, NY 14228-1886 US	SIEMENS SERVICE BLDG AUTOMATION SYSTEM	S	B	5	N	N	1		23,984	17,988	17,988	5,996	3/1/2018	O	2/28/2019	
4500295249	TOWN OF LEWISTON DEPT OF WATER PO BOX 109 MODEL CITY, NY 14107 US	FIRE HYDRANT INSTALLATION	C	1	5	N	N	1		42,000	0	0	42,000	3/6/2018	C		12/31/2018
4500295367	EMERGENCY ONE DBA FOR ANDERSON MEDICAL PC 40 HURLEY AVE KINGSTON, NY 12401-3738 US	ANNUAL ON-SITE PHYSICALS STL/NIA	P	B		N	04	2		163,050	163,050	163,050	0	3/9/2018	C		7/31/2018
4500295414	DOWD BATTERY CO INC 1571 BRONSON RD GRAND ISLAND, NY 14072-2910 US	PVC TERMINAL PLATE COVERS	E	B	5	F	01	1		9,884	9,884	9,884	0	3/12/2018	C		3/26/2018
4500295504	THREE GALS INDUSTRIAL LLC PO BOX 177 OYSTER BAY, NY 11771-0177 US	RM SHELVING	E	B	5	N	03	1		9,847	9,847	9,847	0	3/13/2018	C		6/30/2018
4500295541	NOCO ENERGY CORP 2440 SHERIDAN DR - STE 202 TONAWANDA, NY 14150-9493 US	FUEL	E	B	5	N	N	1		7,396	7,396	7,396	0	3/14/2018	C		3/16/2018
4500295553	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	HOIST EQUIPMENT	E	B	5	F	N	1		8,280	8,280	8,280	0	3/15/2018	C		4/16/2018
4500295605	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	LIGHTNING ARRESTORS AND SURGE COUNTERS	E	B	5	F	N	1		22,955	22,955	22,955	0	3/16/2018	C		10/18/2018
4500295764	INSIGHT SERVICES INC TESTOIL 20338 PROGRESS DR STRONGSVILLE, OH 44149-3220 US	OIL TESTING SERVICES	E	1	5	F	N	1		17,000	0	0	17,000	3/22/2018	O	3/21/2019	
4500295769	GRAYBAR ELECTRIC CO INC 229 CHURCH ST ALBANY, NY 12202-1060 US	MULTI METER HAND HELD FLUKE KIT	E	B	5	N	N	1		6,214	6,214	6,214	0	3/22/2018	C		6/30/2018
4500295847	AMERICAN GOVERNOR CO 27 RICHARD RD IVYLAND, PA 18974-1512 US	INSPECTION OF WOODWARD GOVERNOR EQUIPMENT	S	B	5	N	N	1		16,160	11,687	11,687	4,473	3/23/2018	C		6/30/2018
4500295909	BUFFALO INDUSTRIAL CHEMICALS INC PO BOX 664 NORTH TONAWANDA, NY 14120 US	WATER COOLING TOWER TREATMENT SERVICES	S	B	5	N	N	1		17,000	10,952	10,952	6,048	4/1/2018	C		11/30/2018
4500295949	CINTAS CORP NO 2 5740 GENESEE ST LANCASTER, NY 14086-9734 US	FLOOR MAT RENTAL AND SERVICE	S	B	5	N	N	2		23,000	8,855	8,855	14,145	4/6/2018	O	4/5/2019	

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4500295976	NIAGARA UNIVERSITY PO BOX 1936 NIAGARA UNIVERSITY, NY 14109-1936 US	NIA EAP TABLETOP AND FUNCTIONAL EXERCISE (FERC)	P	2	5	N	N	1		22,333	22,333	22,333	0	3/28/2018	C		9/20/2018
4500295989	STEELCASE INC C/O PRENTICE OFFICE ENVIRONMENTS 901 44TH ST SE GRAND RAPIDS, MI 49508-7594 US	FURNITURE	E	B	5	N	N	1		9,161	9,161	9,161	0	3/28/2018	C		6/30/2018
4500296172	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	WIRE ROPE	E	B	5	N	N	1		11,759	11,759	11,759	0	4/4/2018	C		9/20/2018
4500296179	WILMAC BUSINESS EQUIPMENT CO INC 73 STATE ST ROCHESTER, NY 14614-1369 US	NICE RECORDING SYSTEM UPGRADES AND SUPPORT	E	1	5	N	N	1		18,829	18,829	18,829	0	4/4/2018	O	4/3/2019	
4500296185	DORITEX CORP 11980 WALDEN AVE ALDEN, NY 14004-9709 US	INDUSTRIAL WIPERS AND SORBENT RUGS RENTAL AND SERVICE	S	B		N	N	1		95,000	63,912	63,912	31,088	4/4/2018	O	4/3/2019	
4500296199	SCOTT ELECTRIC SUPPLY INC 3253 WALDEN AVE DEPEW, NY 14043-2821 US	LED LIGHTS	E	B	5	N	N	2		10,609	10,449	10,449	160	4/4/2018	C		6/30/2018
4500296401	OTC SERVICES INC 1776 CONSTITUTION AVE LOUISVILLE, OH 44641 US	LIGHTNING ARRESTOR BRACKETS	E	1	5	F	N	1		35,800	35,800	35,800	0	4/10/2018	C		11/16/2018
4500296511	ABB INC 10300 HENRI-BOURASSA WEST ST LAURENT, PQ H4S 1N6 CA	BREAKER TRAINING AND MAINTENANCE	S	1	5	F	N	1		10,000	10,000	10,000	0	4/12/2018	C		6/30/2018
4500296543	STEELCASE INC C/O PRENTICE OFFICE ENVIRONMENTS 901 44TH ST SE GRAND RAPIDS, MI 49508-7594 US	FURNITURE	E	B	5	N	N	1		6,513	6,504	6,504	9	4/13/2018	C		8/16/2018
4500296609	MEGGER 4271 BRONZE WAY DALLAS, TX 75237 US	MULTIMETER TEST SET	E	B	5	F	N	1		11,966	11,966	11,966	0	4/17/2018	C		6/30/2018
4500296638	GE ENERGY MANAGEMENT SERVICES LLC DBA FOR GRID SOLUTIONS (US) LLC 4200 WILDWOOD PKWY ATLANTA, GA 30339-8402 US	KELMAN GAS ANALYZER REPAIRS	S	1	5	N	N	1		6,925	6,925	6,925	0	4/18/2018	C		6/30/2018
4500296792	UNITED RENTALS (NORTH AMERICA) INC DBA RELIABLE ONSITE SERVICES 100 FIRST STAMFORD PL - STE 700 STAMFORD, CT 06902-9200 US	RESTROOM TRAILER RENTAL AND WEEKLY SERVICE	E	B	5	N	N	1		31,660	18,810	18,810	12,850	4/27/2018	O	4/26/2019	
4500296798	GE INTELLIGENT PLATFORMS INC C/O AUTOMATECH INC 138 INDUSTRIAL PARK RD PLYMOUTH, MA 02360-7243 US	HISTORIAN TAG INCREASE	E	1	5	F	N	1		5,669	5,669	5,669	0	4/23/2018	C		6/30/2018
4500296839	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	CHAIN HOIST TEST STAND	E	B	5	N	N	2		10,456	10,456	10,456	0	4/24/2018	C		6/30/2018
4500296852	NOCO ENERGY CORP 2440 SHERIDAN DR - STE 202 TONAWANDA, NY 14150-9493 US	FUEL	E	B	5	N	N	1		7,588	7,588	7,588	0	4/24/2018	C		4/26/2018

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4500296903	EDM ZAP PARTS INC FORFLUIDS.COM 1108 FRONT ST LISLE, IL 60532-2385 US	OIL DISPENSING SYSTEM	E	B	5	F	N	2		12,703	12,703	12,703	0	4/25/2018	C		6/30/2018
4500296906	DMYLES INC 4622 MILLER RD NIAGARA FALLS, NY 14304-1031 US	PAVING	C	B	5	N	02	1		24,000	18,836	18,836	5,164	4/26/2018	C		11/16/2018
4500296936	KAMAN INDUSTRIAL TECHNOLOGIES CORP PO BOX 30672 HARTFORD, CT 06150 US	MAINTENANCE - DACS	S	1	8	N	N	1		77,000	19,490	19,490	57,510	4/30/2018	O	4/29/2019	
4500296953	CAN USA INC 171 LODI ST HACKENSACK, NJ 07601 US	SLOPE MAINTENANCE AND EROSION CONTROL SERVICES	S	B	5	N	N	2		29,500	29,500	29,500	0	4/26/2018	C		11/16/2018
4500296966	SCOTT ELECTRIC SUPPLY INC 3253 WALDEN AVE DEPEW, NY 14043-2821 US	LPGP HEADGATE LIGHTS	E	B	5	N	N	3		6,449	6,449	6,449	0	4/26/2018	C		8/16/2018
4500297010	FOX FENCE INC 2637 LOCKPORT RD NIAGARA FALLS, NY 14305 US	SECURITY FENCE MAINTENANCE AND SERVICE AGREEMENT	S	B	5	N	01	1		24,500	14,262	14,262	10,238	4/30/2018	O	4/29/2019	
4500297035	SIFCO APPLIED SURFACE CONCEPTS LLC 5708 E SCHAAF RD INDEPENDENCE, OH 44131-1308 US	SILVER PLATING KIT	E	B	5	F	N	1		7,701	7,701	7,701	0	4/30/2018	C		6/30/2018
4500297066	KITCHEN WORLD DISTRIBUTING INC 7370 TRANSIT RD WILLIAMSVILLE, NY 14221-6020 US	SECURITY KITCHEN	E	B	5	N	N	4		6,782	4,417	4,417	2,365	4/30/2018	C		8/16/2018
4500297226	ASI MARINE LP 40 CENTRE DR - STE 3 ORCHARD PARK, NY 14127-4100 US	ZEBRA MUSSEL CONTROL SERVICES	S	B	5	N	N	2		46,789	46,789	46,789	0	5/4/2018	C		11/16/2018
4500297300	ROLFE INDUSTRIES INC 2 PARKFORD DR - PO BOX 673 CLIFTON PARK, NY 12065-3234 US	RM SCREENWELL PARTS	E	B	5	N	03	1		5,728	5,728	5,728	0	5/7/2018	C		9/20/2018
4500297402	ANYTHING GOES ADVERTISING 3904 TILEY ST AUSTIN, TX 78723-4401 US	DRAW STRING CUSTOM BACK PACK FOR PV	E	B	5	F	03	3		11,400	11,400	11,400	0	5/9/2018	C		9/20/2018
4500297454	SCIPAR INC 26 W SPRING ST - PO BOX 400 BUFFALO, NY 14231-0400 US	MAINTENANCE - VDS	S	1	8	N	N	1		99,000	75,576	75,576	23,424	6/1/2018	O	5/31/2019	
4500297486	FUTURE TECHNOLOGIES VENTURE LLC 355 SATELLITE BLVD NE STE 350 SUWANEE, GA 30024-7284 US	JW WATER LEVEL COMMUNICATIONS PARTS AND INSTALLATION	E	B	5	F	N	2		34,803	0	0	34,803	5/11/2018	O	3/31/2019	
4500297537	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	LIFTING SLINGS	E	B	5	F	N	3		5,400	5,400	5,400	0	5/14/2018	C		6/30/2018
4500297588	GOTTOGO ELECTRIC INC DBA FOR GOTTOGO ENTERPRISES 7865 E MAIN RD LE ROY, NY 14482-9747 US	HVB/HITACHI SPARE PARTS	E	B	5	F	03	2		14,256	14,256	14,256	0	5/15/2018	C		6/30/2018

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4500297601	WESCO DISTRIBUTION INC 120 GALLERIA DR CHEEKTOWAGA, NY 14225-5193 US	FIBER CABLE	E	B	5	F	N	3	*	29,880	29,880	29,880	0	5/15/2018	C		6/30/2018
4500297627	MOTION INDUSTRIES INC SEALS UNLIMITED A DIVISION OF MOTIO 6410 NE JACOBSON ST HILLSBORO, OR 97124 US	GATE SEAL ASSEMBLY SET	E	B	5	N	N	2		13,858	13,858	13,858	0	5/16/2018	C		7/31/2018
4500297719	EATON CORP C/O HASGO POWER EQUIPMENT SALES INC 151 W MAIN ST - PO BOX 400 LE ROY, NY 14482-1317 US	ELECTRICAL PANELS	E	B		F	N	3		428,227	0	0	428,227	5/18/2018	O	3/31/2019	
4500297760	HADLEY EXHIBITS INC 1700 ELMWOOD AVE BUFFALO, NY 14207 US	RFID BADGES AND LANYARDS	E	B		F	N	2		410,000	410,000	410,000	0	5/21/2018	C		10/18/2018
4500297806	STEELCASE INC C/O PRENTICE OFFICE ENVIRONMENTS 901 44TH ST SE GRAND RAPIDS, MI 49508-7594 US	FURNITURE	E	B	5	N	N	1		6,156	6,156	6,156	0	5/21/2018	C		8/16/2018
4500297854	PRECISION PROCESS EQUIPMENT INC 2111 LIBERTY DR NIAGARA FALLS, NY 14304-3744 US	CLEVIS BUSHINGS	E	B	5	N	N	3		9,846	9,846	9,846	0	5/23/2018	C		11/16/2018
4500297990	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	SINGLE AND MULTI MODE FIBER ADAPTERS	E	B	5	F	04	1		20,758	20,758	20,758	0	5/29/2018	C		6/30/2018
4500298068	NOCO ENERGY CORP 2440 SHERIDAN DR - STE 202 TONAWANDA, NY 14150-9493 US	FUEL	E	B	5	N	N	1		8,709	8,709	8,709	0	5/31/2018	C		6/30/2018
4500298077	KURK FUEL OIL CO DBA FOR GOETZ ENERGY CORP PO BOX A BUFFALO, NY 14217-0305 US	FUEL	E	B	5	N	01	1		9,370	9,370	9,370	0	5/31/2018	C		6/30/2018
4500298163	HOUGHTON CHEMICAL CORPORATION 52 CAMBRIDGE ST ALLSTON, MA 02134-1850 US	PROPYLENE GLYCOL	E	B	5	F	N	2	*	10,784	10,784	10,784	0	6/6/2018	C		8/22/2018
4500298317	NOWAK INDUSTRIAL LLC 145 SUZETTE DR CHEEKTOWAGA, NY 14227-3701 US	HVAC INDUSTRIAL INSULATION SERVICES	C	B		N	02	3		49,300	49,300	49,300	0	6/8/2018	C		10/18/2018
4500298405	OTC SERVICES INC 1776 CONSTITUTION AVE LOUISVILLE, OH 44641 US	TRANSFORMER INTERNAL INSPECTION RM UNIT 12	S	2	5	N	N	1		7,500	0	0	7,500	6/12/2018	C		9/14/2018
4500298420	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	PIPE INSPECTION CAMERA	E	B	5	F	N	2		6,953	6,953	6,953	0	6/13/2018	C		6/30/2018
4500298450	MASSIVE TESTING & BALANCING LLC DBA FOR MARK A SNYDER 1 MADISON AVE BATAVIA, NY 14020 US	T.A.B. FOR LPGP CHILLER UPGRADES	S	B	5	N	N	2		5,480	0	0	5,480	6/13/2018	O	6/1/2019	

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4500298532	SCOTT ELECTRIC SUPPLY INC 3253 WALDEN AVE DEPEW, NY 14043-2821 US	ELECTRICAL CONTACTS	E	B	5	F	N	2		45,750	45,750	45,750	0	6/19/2018	C		12/28/2018
4500298599	FUTURE ENERGY INC PO BOX 2284 SPRING, TX 77383 US	INTERRUPTER UNITS FOR SWITCHYARD BREAKERS	E	1	5	F	N	1	*	9,899	9,899	9,899	0	6/19/2018	C		8/16/2018
4500298628	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	SAFETY GUARDRAILS - LPGP	E	B		N	01	1		35,586	0	0	35,586	6/20/2018	O	1/31/2019	
4500298638	GE INTELLIGENT PLATFORMS INC C/O AUTOMATECH INC 138 INDUSTRIAL PARK RD PLYMOUTH, MA 02360-7243 US	GLOBAL CARE SUPPORT SERVICES	S	1	5	N	N	1		26,413	26,413	26,413	0	6/27/2018	O	6/26/2019	
4500298680	CITY ELECTRIC CO INC 910 FACTORY OUTLET BLVD NIAGARA FALLS, NY 14304-1596 US	ELECTRICAL CABLE	E	B	5	F	N	5	*	21,950	21,950	21,950	0	6/21/2018	C		8/15/2018
4500298683	GLOBAL INDUSTRIES INC C/O OFFICE FURNITURE CENTER 17 W STOW RD MARLTON, NJ 08053-3116 US	FURNITURE	E	B	5	N	N	1		6,931	6,931	6,931	0	6/21/2018	C		10/18/2018
4500298945	STEELCASE INC C/O PRENTICE OFFICE ENVIRONMENTS 901 44TH ST SE GRAND RAPIDS, MI 49508-7594 US	FURNITURE	E	B	5	N	N	1		5,277	5,277	5,277	0	6/29/2018	C		11/16/2018
4500298948	STEELCASE INC C/O PRENTICE OFFICE ENVIRONMENTS 901 44TH ST SE GRAND RAPIDS, MI 49508-7594 US	FURNITURE	E	B	5	N	N	1		5,868	0	0	5,868	6/29/2018	O	3/31/2019	
4500299004	AMERICAN GOVERNOR CO 27 RICHARD RD IVYLAND, PA 18974-1512 US	SPEED ADJUSTMENT KITS	E	B	5	F	N	1	*	21,447	21,447	21,447	0	7/2/2018	C		11/30/2018
4500299109	AAI ACQUISITION LLC D/B/A/ AAI A POWER FLOW TECH 270 PARK AVENUE GARDEN CITY PARK, NY 11040 US	SENSOR DEPLOYMENT ELECTRICAL CABINETS	E	B		F	N	6	*	143,946	143,946	143,946	0	7/6/2018	C		12/30/2018
4500299129	PRAXAIR DISTRIBUTION INC 1811 BROADWAY BUFFALO, NY 14212-2032 US	WELDING SUPPLIES	E	B	5	N	N	1		5,730	5,730	5,730	0	7/9/2018	C		8/16/2018
4500299173	NOCO ENERGY CORP 2440 SHERIDAN DR - STE 202 TONAWANDA, NY 14150-9493 US	FUEL	E	B	5	N	N	1		8,609	8,609	8,609	0	7/10/2018	C		7/31/2018
4500299251	CRYSTAL ROCK LLC DBA FOR CRYSTAL ROCK HOLDINGS INC 840 AERO DR CHEEKTOWAGA, NY 14225-1451 US	BOTTLED WATER AND DISPENSING UNITS	E	B	5	N	N	1		33,000	3,998	3,998	29,002	7/12/2018	O	7/11/2021	
4500299316	ALPS SERVICES INC 6918 REBECCA DR NIAGARA FALLS, NY 14304 US	FAMILY DAY PICNIC	S	B	5	N	N	4		8,113	8,113	8,113	0	7/13/2018	C		8/16/2018
4500299326	GRAYBAR ELECTRIC CO INC 229 CHURCH ST ALBANY, NY 12202-1060 US	CONTROL CABLE WIRE	E	B	5	N	N	2		6,635	6,635	6,635	0	7/13/2018	C		9/20/2018

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4500299328	MOLEY MAGNETICS INC 5202 COMMERCE DR LOCKPORT, NY 14094 US	SPARE BRAKE HOIST	E	B	5	N	N	2		11,791	11,791	11,791	0	7/13/2018	C		12/31/2018
4500299382	DIGITAL SURVEILLANCE SOLUTIONS INC STE 4 2727 BROADWAY ST BUFFALO, NY 14227-1070 US	RIVER INTAKE CAMERA UPGRADES	E	B	7	F	N	1		286,266	286,266	286,266	0	7/17/2018	C		10/18/2018
4500299491	BDL PARTS DALE B BERGER 2100 LOVE RD GRAND ISLAND, NY 14072-2534 US	IDLER GEARS AND DRIVE SHAFTS	E	B	5	N	N	2		44,000	44,000	44,000	0	7/19/2018	C		12/30/2018
4500299513	MOLEY MAGNETICS INC 5202 COMMERCE DR LOCKPORT, NY 14094 US	MOTOR REPAIRS	E	2	5	N	N	1		13,224	13,224	13,224	0	7/19/2018	C		8/31/2018
4500299540	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	ANCHOR AND CHAIN SHACKLES	E	B	5	F	N	1		10,845	10,845	10,845	0	7/20/2018	C		9/20/2018
4500299583	PIERCE STEEL FABRICATORS INC 430 N 7TH ST OLEAN, NY 14760-2330 US	U BOLTS	E	B	5	N	N	1		9,050	9,050	9,050	0	7/23/2018	C		11/16/2018
4500299603	FM OFFICE EXPRESS INC DBA FM OFFICE PRODUCTS 106 DESPATCH DR - STE 2 EAST ROCHESTER, NY 14445-1448 US	NEMA ENCLOSURES	E	B	5	F	04	1		5,195	5,195	5,195	0	7/23/2018	C		9/20/2018
4500299723	PRIME MOVER CONTROLS INC 3600 GILMORE WAY BURNABY, BC V5G 4R8 CA	LATHAM REPAIR PARTS	E	B	5	F	N	1	*	13,994	13,994	13,994	0	7/26/2018	C		11/16/2018
4500299726	DAVIS-ULMER SPRINKLER CO INC 1 COMMERCE DR AMHERST, NY 14228-2395 US	FIRE SUPPRESSION SYSTEM REPAIRS AND MAINTENANCE	S	B	5	N	N	2		24,900	6,005	6,005	18,895	8/1/2018	O	7/31/2019	
4500299776	EH WACHS - A DIVISON OF ITW 600 KNIGHTSBRIDGE PKWY LINCOLNSHIRE, IL 60069-3617 US	VALVE OPERATING EQUIPMENT	E	B	5	F	N	3		17,390	17,390	17,390	0	7/27/2018	C		8/15/2018
4500299814	NIAGARA WHOLESALE SUPPLY CO INC 4100 WITMER RD NIAGARA FALLS, NY 14305 US	HARDWOOD TIMBERS FOR DUNNAGE	E	B	5	N	N	1		18,420	18,420	18,420	0	7/30/2018	C		9/20/2018
4500299931	CITY ELECTRIC CO INC 910 FACTORY OUTLET BLVD NIAGARA FALLS, NY 14304-1596 US	EV CHARGING STATIONS	E	B		F	N	1		492,790	0	0	492,790	8/1/2018	O	3/31/2019	
4500300053	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	MARINE ROPE AND ROPE CLIPS	E	B	5	F	N	1		25,872	25,872	25,872	0	8/6/2018	C		9/20/2018
4500300057	BRETT'S TENT & AWNING INC 1318 HYDE PARK BLVD NIAGARA FALLS, NY 14301-1414 US	WILDLIFE FESTIVAL TENT RENTAL PACKAGE	E	B	5	N	N	1		9,800	9,653	9,653	147	8/6/2018	C		10/18/2018
4500300134	GLOBAL INDUSTRIES C/O PRENTICE OFFICE ENVIROMENTS 17 WEST STOW RD MARLTON, NJ 08053-3116 US	FURNITURE	E	B	5	F	N	1		6,519	6,492	6,492	27	8/8/2018	C		10/18/2018
4500300145	IRIS POWER LP 3110 AMERICAN DR MISSISSAUGA, ON L4V 1T2 CA	TEST INSTRUMENTS INSTALLATION RM UNIT 13	E	1	5	F	N	1		8,555	3,705	3,705	4,850	8/8/2018	C		12/31/2018

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4500300369	VERTIV SERVICES INC 610 EXECUTIVE CAMPUS DR WESTERVILLE, OH 43082-8870 US	UPS BATTERY REPLACEMENT SERVICES	S	1	5	N	N	1		9,919	9,919	9,919	0	8/15/2018	C		9/20/2018
4500300444	CHOCTAW-KAUL DISTRIBUTION COMPANY 3540 VINEWOOD AVE DETROIT, MI 48208-2363 US	SS HEX SCREWS	E	B	5	F	N	1		8,694	8,694	8,694	0	8/16/2018	C		10/18/2018
4500300543	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	CISCO EQUIPMENT	E	B	5	N	04	1		6,899	6,899	6,899	0	8/20/2018	C		9/20/2018
4500300836	NATIONAL VACUUM ENVIRONMENTAL SERVICES CORP 408 47TH ST NIAGARA FALLS, NY 14304-2102 US	CONFINED SPACE RESCUE TEAM SERVICES	S	B	5	N	N	2		24,000	0	0	24,000	8/30/2018	O	8/29/2019	
4500300891	CHOCTAW-KAUL DISTRIBUTION COMPANY 3540 VINEWOOD AVE DETROIT, MI 48208-2363 US	ARC RATED FALL PROTECTION EQUIPMENT	E	B	5	F	N	4	*	20,354	20,354	20,354	0	8/30/2018	C		10/18/2018
4500300937	AMERICAN ROCK SALT CO LLC DBA FOR AMERICAN ROCK SALT HOLDING PO BOX 190 MOUNT MORRIS, NY 14510-0190 US	ROCK SALT	E	B	5	N	N	1		38,094	0	0	38,094	8/31/2018	O	8/31/2019	
4500300953	WAGNER PRECISION INC 583 DIVISION ST N TONAWANDA, NY 14120-4209 US	ALUMINUM TRANSFORMER RINGS	E	B	5	N	N	1		9,660	9,660	9,660	0	8/31/2018	C		12/30/2018
4500300980	CITY ELECTRIC CO INC 910 FACTORY OUTLET BLVD NIAGARA FALLS, NY 14304-1596 US	ELECTRICIAN TOOLS	E	B	5	N	N	1	*	9,925	9,925	9,925	0	9/4/2018	C		11/16/2018
4500301040	RED WING BUSINESS ADVANTAGE ACCOUNT DBA FOR MULTI SERVICE TECH SOLUTION 6354 TRANSIT RD DEPEW, NY 14043-1072 US	SHOE MOBILE	E	2	5	N	N	1		6,084	6,084	6,084	0	9/5/2018	C		12/31/2018
4500301044	DIVAL SAFETY EQUIPMENT INC 1721 NIAGARA ST BUFFALO, NY 14207-3108 US	SHOE MOBILE	E	2	5	N	N	1		6,985	6,985	6,985	0	9/5/2018	C		11/16/2018
4500301257	PRECISION PROCESS EQUIPMENT INC 2111 LIBERTY DR NIAGARA FALLS, NY 14304-3744 US	VALVE SEATS	E	B	5	N	N	1		18,225	0	0	18,225	9/11/2018	O	3/31/2019	
4500301345	LAFARGE NORTH AMERICA INC WESTERN NY DIVISION STE 100 270 NORTHPOINTE PKWY AMHERST, NY 14228-1897 US	BLACKTOP FOR POWER VISTA	E	B	5	N	N	1		9,039	9,039	9,039	0	9/13/2018	C		11/16/2018
4500301439	ANNESE & ASSOCIATES INC 7 SUTTON PL - STE E BREWSTER, NY 10509-3537 US	NETWORK MANAGED SYSTEMS - POWER VISTA WIFI	R	M	5	N	03	1		14,454	0	0	14,454	10/29/2018	O	10/28/2019	
4500301468	THREE GALS INDUSTRIAL LLC PO BOX 177 OYSTER BAY, NY 11771-0177 US	PIPE THREADING TOOLS	E	B	5	N	03	2		10,018	10,018	10,018	0	9/17/2018	C		10/18/2018

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4500301524	HP INC 1501 PAGE MILL RD PALO ALTO, CA 94304-1126 US	CURVE MONITORS	H	B	5	F	N	1		11,550	11,550	11,550	0	9/19/2018	C		11/16/2018
4500301532	CHA CONSULTING INC III WINNERS CIRCLE ALBANY, NY 12205-0269 US	SEWER SYSTEM ASSESSMENT	S	B		N	N	2		98,500	0	0	98,500	9/19/2018	O	3/31/2019	
4500301676	APPLIED INSPECTION SERVICES INC 153 WALES AVE TONAWANDA, NY 14150-2507 US	NON-DESTRUCTIVE EXAMINATION SERVICES	S	B	5	N	N	3		11,055	0	0	11,055	9/25/2018	O	9/24/2019	
4500301696	SHELBY CRUSHED STONE INC 10830 BLAIR RD MEDINA, NY 14103 US	STONE, LIGHT AND MEDIUM FILL	E	B	5	N	N	3		49,507	49,087	49,087	420	10/2/2018	C		12/30/2018
4500301744	LAFARGE NORTH AMERICA INC WESTERN NY DIVISION STE 100 270 NORTHPOINTE PKWY AMHERST, NY 14228-1897 US	PAVING	E	B	5	N	N	1		17,608	17,608	17,608	0	9/25/2018	C		11/16/2018
4500301879	BERGMANN ASSOC ARCHITECTS ENGINEERS LANDSCAPE ARCHITECTS&SURVEYORS DPC 280 E BROAD ST - STE 200 ROCHESTER, NY 14604-1740 US	PROVIDE SERVICES RELATED TO BRIDGE REPLACEMENT STRUCTURAL CONDITION ASSESSMENT AT NYPA'S RMNPP	A	B			N	N	2		411,100	0	0	411,100	9/28/2018	O	6/18/2019	
4500301991	OMICRON ELECTRONICS CORP USA 3550 WILLOWBEND BLVD HOUSTON, TX 77054-1127 US	TEST SET - VOTANO 100	E	B	5	F	N	1		42,950	42,950	42,950	0	10/3/2018	C		12/31/2018
4500302152	MONROE EXTINGUISHER CO INC 105 DODGE ST ROCHESTER, NY 14606-1503 US	ROOM INTEGRITY TESTING	S	B	5	N	N	1		6,625	0	0	6,625	10/9/2018	C		12/26/2018
4500302255	EDGETECH DBA FOR EDGEONE LLC 4 LITTLE BROOK RD WEST WAREHAM, MA 02576-1222 US	BUOY RECOVERY SYSTEM	E	B	5	F	N	1		40,575	40,575	40,575	0	10/11/2018	C		11/16/2018
4500302302	PIERCE STEEL FABRICATORS INC 430 N 7TH ST OLEAN, NY 14760-2330 US	PACKING GLAND	E	B	5	N	N	1		21,400	0	0	21,400	10/15/2018	O	3/31/2019	
4500302362	LAFARGE NORTH AMERICA INC WESTERN NY DIVISION STE 100 270 NORTHPOINTE PKWY AMHERST, NY 14228-1897 US	PAVING	E	B	6	N	N	1		9,470	8,636	8,636	834	10/16/2018	C		11/16/2018
4500302382	THREE GALS INDUSTRIAL LLC PO BOX 177 OYSTER BAY, NY 11771-0177 US	WELDING PAPR	E	B	5	N	03	2		5,924	5,924	5,924	0	10/16/2018	C		12/31/2018
4500302443	HASGO POWER EQUIPMENT SALES INC 151 E MAIN RD - PO BOX 400 LE ROY, NY 14482-1237 US	BREAKER REMANUFACTURE SERVICES	E	B			N	N	4		25,661	0	0	25,661	10/18/2018	O	3/31/2019	
4500302556	DOBLE ENGINEERING CORP 85 WALNUT ST WATERTOWN, MA 02472 US	EMI SURVEYOR KIT	E	B	5	F	N	1		39,965	27,965	27,965	12,000	10/22/2018	C		12/31/2018
4500302690	COLD JET LLC 455 WARDS CORNER RD LOVELAND, OH 45140-9062 US	CO2 CLEANING SYSTEM AND ACCESSORIES	E	B	5	F	N	1	*	26,392	26,392	26,392	0	10/25/2018	C		11/16/2018
4500302720	JAMESON ROOFING CO INC 3761 E LAKE RD DUNKIRK, NY 14048-9738 US	HOIST BUILDING ROOF REPAIRS	C	B			N	N	2		113,975	0	0	113,975	10/26/2018	O	6/30/2019	

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4500302775	NORTHEAST METROLOGY CORP 4490 BROADWAY DEPEW, NY 14043-2904 US	RM AND LPGP TOOL CALIBRATIONS	S	B	5	N	N	1		9,977	0	0	9,977	11/1/2018	O	10/29/2019	
4500302779	TESSCO INC 11126 MCCORMICK RD HUNT VALLEY, MD 21031-4302 US	JW WATER LEVEL GAUGE COMMUNICATIONS	E	B	5	F	N	2		6,493	6,493	6,493	0	10/29/2018	C		12/31/2018
4500302880	STEELCASE INC C/O PRENTICE OFFICE ENVIRONMENTS 901 44TH ST SE GRAND RAPIDS, MI 49508-7594 US	FURNITURE	E	B	5	N	N	1		9,282	9,282	9,282	0	10/31/2018	C		12/31/2018
4500302891	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	JIB CRANES	E	B	5	F	N	1		5,397	5,397	5,397	0	10/31/2018	C		12/31/2018
4500302985	CIR ELECTRICAL CONSTRUCTION CORP 400 INGHAM AVE BUFFALO, NY 14218-2536 US	LED HIGH BAY LIGHTING INSTALLATION SERVICES	S	B		N	N	3		97,450	0	0	97,450	11/2/2018	O	3/31/2019	
4500303026	MOLEY MAGNETICS INC 5202 COMMERCE DR LOCKPORT, NY 14094 US	MOTOR INSPECTIONS AND REPAIRS	S	B	5	N	N	2		45,000	2,662	2,662	42,338	11/5/2018	O	11/4/2019	
4500303185	MODERN DISPOSAL SERVICES INC PO BOX 209 MODEL CITY, NY 14107-0209 US	GENERAL REFUSE REMOVAL SERVICES	S	B	7	N	N	1		90,000	4,139	4,139	85,861	11/10/2018	O	11/9/2019	
4500303341	E-HAZARD DBA FOR E-HAZARD MANAGEMENT LLC 3018 EASTPOINT PKWY LOUISVILLE, KY 40223-4185 US	ELECTRICAL IMPLEMENTATION PLAN	P	B	9	F	N	1		14,500	14,500	14,500	0	11/14/2018	C		12/31/2018
4500303390	ROSS VALVE MANUFACTURING CO INC 79 102ND ST TROY, NY 12180-1125 US	ROSS VALVE REPLACEMENT	E	B	5	N	N	2		14,421	0	0	14,421	11/15/2018	O	3/31/2019	
4500303456	AMERICAN GOVERNOR CO 27 RICHARD RD IVYLAND, PA 18974-1512 US	GOVERNOR FILTERS	E	B	5	F	N	1		22,620	1,885	1,885	20,735	11/19/2018	O	11/19/2019	
4500303584	HAFCO FOUNDRY & MACHINE CO INC 301 GREENWOOD AVE MIDLAND PARK, NJ 07432-1484 US	SHEAR PINS	E	B	5	F	N	2		26,000	0	0	26,000	11/27/2018	O	1/30/2019	
4500303592	NIAGARA LAWN & GARDEN INC 4833 SAUNDERS SETTLEMENT RD NIAGARA FALLS, NY 14305 US	SIDE WALK SNOW PLOWING SERVICES - OFFSITE	S	B	5	N	N	1		7,150	0	0	7,150	11/26/2018	O	4/30/2019	
4500303671	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	PMU/DFR PROJECT IT LAN CONNECTIVITY LPGP	I	B	5	N	04	1		11,665	11,665	11,665	0	11/28/2018	C		12/31/2018
4500303672	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	SENSOR DEPLOYMENT FANDECK	I	B	5	N	04	1		39,334	0	0	39,334	11/28/2018	O	1/31/2019	
4500304037	UNIFIN INTERNATIONAL A DIV OF WABTEC CANADA INC 1030 CLARKE SIDE RD LONDON, ON N6A 4P4 CA	STATOR COOLERS	E	B		F	N	1		240,200	0	0	240,200	12/10/2018	O	4/30/2019	
4500304041	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	CISCO SWITCHES	E	B	7	N	04	1		60,719	0	0	60,719	12/10/2018	O	1/31/2019	

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4500304101	HEWLETT PACKARD ENTERPRISE CO 3000 HANOVER ST PALO ALTO, CA 94304-1185 US	SCADA HARDWARE MAINTENANCE	S	B	5	N	N	1		33,732	0	0	33,732	12/11/2018	O	10/31/2019	
4500304116	KESTREL POWER ENGINEERING LLC 9126 N 2150 EAST RD FAIRBURY, IL 61739-9204 US	TESTING AND ANALYSIS FOR NERC MOD 26-27	S	1	8	F	N	1		89,950	0	0	89,950	12/11/2018	O	12/10/2019	
4500304232	KURK FUEL OIL CO DBA FOR GOETZ ENERGY CORP PO BOX A BUFFALO, NY 14217-0305 US	FUEL	E	B	5	N	01	1		20,000	2,869	2,869	17,131	12/14/2018	O	2/28/2019	
4500304258	GEXPRO DBA FOR REXEL USA INC 30 CORPORATE CIR STE 200 ALBANY, NY 12203-5149 US	PROTECTION RELAYS	E	B	5	F	N	4		9,454	0	0	9,454	12/17/2018	O	11/14/2019	
4500304430	ABB INC 180 ROTTERDAM INDUSTRIAL PARK ROTTERDAM, NY 12306-1920 US	PROTECTION RELAYS	E	B	5	F	N	4		29,634	0	0	29,634	12/20/2018	O	1/14/2019	
4500304519	VALVE INDUSTRIES INC 4 SLATE CT - APT D-2 WOODLAND PARK, NJ 07424-4247 US	PILOT VALVE AND BUSHINGS	E	B	5	F	N	2		9,902	0	0	9,902	12/26/2018	O	2/27/2019	
4600002315	MITSUBISHI HITACHI POWER SYSTEMS AMERICAS INC 645 MARTINSVILLE RD BASKING RIDGE, NJ 07920-4701 US	LPGP LEM -PUMP TURBINE UPGRADE, ACCESSORY REPLACEMENT AND UNIT OVERHAUL	C	B		F	N	6		147,624,824	120,638,166	23,263,616	26,986,658	7/30/2010	O	12/31/2022	
4600002767	UNITED UNIFORM CO INC 495 N FRENCH RD BUFFALO, NY 14228-2124 US	SECURITY CLOTHING AND SUPPLIES CONTRACT	E	B		N	N	1		60,000	9,092	0	50,908	4/1/2014	C		3/30/2018
4600002771	UPSTATE METROLOGY INC 6388 NIVER RD CONESUS, NY 14435-9514 US	TEST EQUIPMENT CALIBRATION AND CERTIFICATION	S	B		N	N	2		60,000	43,583	1,290	16,417	3/26/2014	C		3/25/2018
4600002822	LIRO ENGINEERS INC 3 AERIAL WAY SYOSSET, NY 11791-5501 US	ENVIRONMENTAL CONSULTING SERVICES	S	B		N	N	7		250,000	88,037	46,741	161,963	8/4/2014	C		8/3/2018
4600002823	STOHL ENVIRONMENTAL LLC 4169 ALLENDALE PKWY - STE 100 BLASDELL, NY 14219 US	ENVIRONMENTAL CONSULTING SERVICES	S	B		N	N	7		250,000	186,589	13,473	63,411	8/4/2014	C		8/3/2018
4600002824	WATTS ARCHITECTURE & ENGINEERING DPC 95 PERRY ST - STE 300 BUFFALO, NY 14203-3030 US	ENVIRONMENTAL CONSULTING SERVICES	S	B		N	04	7		250,000	29,124	1,315	220,876	8/4/2014	C		8/3/2018
4600002829	APTIM ENVIROMENTAL & INFRASTRUCTURE INC 13 BRITISH AMERICAN BLVD LATHAM, NY 12110-1431 US	ZEBRA MUSSEL TESTING SERVICES	S	B		N	N	2		51,300	50,656	5,400	644	8/7/2014	C		8/6/2018
4600002854	DIVAL SAFETY EQUIPMENT INC 1721 NIAGARA ST BUFFALO, NY 14207-3108 US	PORTABLE FIRE EXTINGUISHER SERVICE AGREEMENT	S	B		N	N	6		30,000	26,125	3,722	3,875	10/16/2014	C		10/15/2018
4600003079	SIMPLEXGRINNELL LLP 6850 MAIN ST - STE 3 WILLIAMSVILLE, NY 14221 US	FIRE PROTECTION SYSTEMS CONTRACT	S	B		N	N	3		95,000	71,161	35,874	23,839	1/1/2016	C		12/31/2018

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4600003166	NORTH AMERICAN INDUSTRIAL SERVICES INC 1240 SARATOGA RD BALLSTON SPA, NY 12020-3500 US	INDUSTRIAL AND ENVIRONMENTAL VACUUMING SERVICES	S	B		N	N	3		705,000	180,782	88,455	524,218	7/1/2016	O	6/30/2020	
4600003172	UNITED UNIFORM DISTRIBUTION LLC SUBSIDIARY OF SAFARILAND LLC 495 N FRENCH RD BUFFALO, NY 14228-2124 US	SECURITY CLOTHING AND SUPPLIES	E	B		N	N	1		30,000	8,997	2,049	21,003	5/4/2016	C		3/30/2018
4600003198	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	CRANE RENTAL - NIA	E	B		N	01	2		375,000	0	0	375,000	8/22/2016	O	8/21/2020	
4600003199	CLARK RIGGING & RENTAL CORP 500 OHIO ST LOCKPORT, NY 14094-4222 US	CRANE RENTAL - NIA	E	B		N	N	2		375,000	5,500	0	369,500	8/22/2016	O	8/21/2021	
4600003284	BIDCO MARINE GROUP INC 220 KATHERINE ST BUFFALO, NY 14210-2008 US	PENSTOCK INSPECTION SERVICES	S	B		N	01	3		101,250	56,250	33,750	45,000	4/1/2017	O	3/30/2020	
4600003309	DMYLES INC 4622 MILLER RD NIAGARA FALLS, NY 14304-1031 US	ROCKFALL REMOVAL SERVICES	S	M	8	N	02	1		100,000	0	0	100,000	4/22/2017	C		4/20/2018
4600003313	PINTO CONSTRUCTION SERVICES INC 1 BABCOCK ST BUFFALO, NY 14210-2250 US	UNDERGROUND UTILITY REPAIR SERVICE AGREEMENT	C	B		N	N	1		100,000	0	0	100,000	5/10/2017	C		5/9/2018
4600003315	NORTH AMERICAN INDUSTRIAL SERVICES INC 1240 SARATOGA RD BALLSTON SPA, NY 12020-3500 US	CONFINED SPACE RESCUE TEAM SERVICES	S	B	5	N	N	4		24,000	0	0	24,000	5/22/2017	C		5/21/2018
4600003317	ALSTOM RENEWABLE US LLC 8000 E MAPLEWOOD AVE STE 105 GREENWOOD VILLAGE, CO 80111-4727 US	LPGP - DESIGN-SUPPLY MGEN THRUST BEARING COMPONENTS	E	B		F	N	1		3,038,522	330,254	330,254	2,708,268	6/9/2017	O	12/31/2024	
4600003325	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	STEEL HARDWARE ICE BOOM	E	B		F	N	1		634,950	0	0	634,950	8/1/2017	O	7/31/2020	
4600003330	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	VMI ON-SITE CONSUMABLES "XBINS"	E	B		N	N	4		600,000	149,554	108,904	450,446	8/1/2017	C		12/31/2018
4600003332	FISHER ASSOCIATES PE LS LA DPC 180 CHARLOTTE ST ROCHESTER, NY 14607-1331 US	SPDES INSPECTION AND SAMPLING ANALYSIS SERVICES	S	B		N	N	4		150,000	31,727	23,713	118,273	8/1/2017	O	7/31/2021	
4600003362	BUFFALO ENVIRONMENTAL CONSULTANTS INC 7815 BUFFALO AVE NIAGARA FALLS, NY 14304-4221 US	NIAGARA EHS PROFESSIONAL	P	B		N	N	4		750,000	238,394	238,394	511,606	9/1/2017	O	8/31/2022	
4600003368	OCCUPATIONAL SAFETY & ENVIRONMENTAL ASSOCIATION INC 3730 CALIFORNIA RD STE A ORCHARD PARK, NY 14127-1795 US	NIAGARA EHS PROFESSIONAL	P	B		N	N	4		750,000	0	0	750,000	9/1/2017	O	8/31/2022	

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4600003369	SIENNA ENVIRONMENTAL TECHNOLOGIES LLC 350 ELMWOOD AVE BUFFALO, NY 14222-2204 US	NIAGARA EHS PROFESSIONAL	P	B		N	04	4		750,000	0	0	750,000	9/1/2017	O	8/31/2022	
4600003370	GREAT LAKES ENVIRONMENTAL & SAFETY CONSULTANTS INC 50 RIDGE RD BUFFALO, NY 14218-1011 US	NIAGARA EHS PROFESSIONAL	P	B		N	N	4		750,000	0	0	750,000	9/1/2017	O	8/31/2022	
4600003375	CITY ELECTRIC CO INC 910 FACTORY OUTLET BLVD NIAGARA FALLS, NY 14304-1596 US	ELECTRICAL CONSUMABLES - XBINS	E	B	8	N	N	1		70,000	25,787	17,768	44,213	9/28/2017	O	10/1/2020	
4600003422	DCB ELEVATOR CO INC PO BOX 426 LEWISTON, NY 14092 US	ELEVATOR/ESCALATOR MAINTENANCE AGREEMENT	S	B	7	N	03	2		400,000	64,562	64,562	335,438	1/1/2018	O	12/31/2021	
4600003458	UPSTATE METROLOGY INC 6388 NIVER RD CONESUS, NY 14435-9514 US	I AND C TEST EQUIPMENT CALIBRATION SERVICES	S	B		N	N	3		9,693	4,542	4,542	5,151	3/26/2018	O	3/25/2019	
4600003463	MARK CERRONE INC 2368 MARYLAND AVE NIAGARA FALLS, NY 14305-1718 US	ROCKFALL REMOVAL SERVICES	S	B		N	03	2		100,000	0	0	100,000	4/22/2018	O	4/21/2019	
4600003468	PINTO CONSTRUCTION SERVICES INC 1 BABCOCK ST BUFFALO, NY 14210-2250 US	UNDERGROUND UTILITY REPAIRS	C	B		N	N	2		100,000	0	0	100,000	5/10/2018	O	5/9/2019	
4600003503	WATTS ARCHITECTURE & ENGINEERING DPC 95 PERRY ST - STE 300 BUFFALO, NY 14203-3030 US	ENVIRONMENTAL CONSULTING SERVICES	S	B		N	04	5		250,000	0	0	250,000	8/14/2018	O	8/13/2022	
4600003504	LIRO ENGINEERS INC 3 AERIAL WAY SYOSSET, NY 11791-5501 US	ENVIRONMENTAL CONSULTING SERVICES	S	B		N	N	5		250,000	0	0	250,000	8/14/2018	O	8/13/2022	
4600003505	MS ANALYTICAL LLC 4169 ALLENDALE PKWY BLASDELL, NY 14219-2941 US	ENVIRONMENTAL CONSULTING SERVICES	S	B		N	N	5		250,000	10,089	10,089	239,911	8/14/2018	O	8/13/2022	
4600003506	APTIM ENVIROMENTAL & INFRASTRUCTURE INC 13 BRITISH AMERICAN BLVD LATHAM, NY 12110-1431 US	ZEBRA MUSSEL TESTING SERVICES	S	B		N	N	2		75,000	10,800	10,800	64,200	8/13/2018	O	8/12/2022	
4600003530	NATIONAL VACUUM ENVIRONMENTAL SERVICES CORP 408 47TH ST NIAGARA FALLS, NY 14304-2102 US	INDUSTRIAL VACUUM CLEANING SERVICES	S	B	5	N	N	1		49,500	1,659	1,659	47,841	9/24/2018	O	3/31/2019	
4600003533	MONROE EXTINGUISHER CO INC 105 DODGE ST ROCHESTER, NY 14606-1503 US	FIRE EXTINGUISHER SERVICES	E	B	5	N	N	4		30,000	0	0	30,000	10/16/2018	O	10/15/2021	
		NIA TOTALS								171,328,944	130,571,326	29,227,717	40,757,618				

POWER AUTHORITY OF THE STATE OF NEW YORK
2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS
REQUIRED BY N.Y. PUBLIC AUTHORITIES LAW, SECTION 2879

Total Number of Contracts	273	
Total Contract Value		$171,328,944
Total Expended to Date		$130,571,326
Total Expended in Report Year		$29,227,717
Status Summary	Count	Contract Value
Open Contracts	76	$162,054,887
Closed Contracts	197	$9,274,057
Method of Award Summary		
Competitive Bid	239	$169,886,786
Sole Source	21	$1,057,404
Single Source	7	$69,951
Competitive Search	1	$6,010
MWBE/SBE	5	$308,793
Commitment Type Summary		
Architectural and Engineering Services	1	$411,100
Construction	9	$150,179,961
Equipment / Goods / Commodities	178	$11,748,542
IT Hardware	2	$23,526
IT Software	2	$50,999
Legal Services	0	$0
Maintenance and Outage Services	0	$0
Personal Services	8	$3,241,041
IT Consulting and Development	1	$14,454
Other Non-Personal Services	72	$5,659,321
Contingent Workforce	0	$0

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4500270758	GENERAL ELECTRIC INTERNATIONAL INC 175 MILENS RD TONAWANDA, NY 14150-6701 US	REMOVE, REFURBISH, DELIVER, INSTALL GSU'S AT 500MW COMBINED CYCLE POWER PLANT	E	C		N	N	1		7,627,478	2,363,078	1,680,428	5,264,400	3/31/2016	O	3/30/2021	
4500277568	STRATAGEM SECURITY INC 2 WESTCHESTER PLZ ELMSFORD, NY 10523 US	DELTA BARRIER GATE REPAIRS AND MAINTENANCE	S	B	7	N	N	1		39,309	39,251	631	58	10/3/2016	C		12/6/2018
4500280494	SARA L MENDELSOHN MD PLLC 800 WOODBURY RD - STE K WOODBURY, NY 11797-2592 US	EMPLOYEE PHYSICALS	P	B	5	N	N	1		14,500	9,395	5,480	5,105	2/1/2017	C		1/31/2018
4500281545	QUALI-SERV INC 84 W MAIN ST EAST ISLIP, NY 11730-2335 US	SNOW REMOVAL	S	B	5	N	01	3		20,000	0	0	20,000	1/26/2017	C		1/25/2018
4500281558	GEA REFRIGERATION NORTH AMERICA INC 3475 BOARD RD YORK, PA 17406-8414 US	CHILLER SUPPORT	S	B	5	F	N	1		35,417	35,417	35,417	0	1/26/2017	C		1/3/2018
4500281639	FILCO CARTING CORP 197 SNEDIKER AVE BROOKLYN, NY 11207-3320 US	RUBBISH REMOVAL	S	B	7	N	N	1		48,750	25,284	12,631	23,466	1/29/2017	C		1/28/2018
4500282897	KONE INC 4736 36TH ST LONG ISLAND CITY, NY 11101-1824 US	ON-CALL ELEVATOR MAINTENANCE SERVICES	S	B	5	N	N	3		45,000	34,675	15,029	10,325	3/3/2017	C		3/2/2018
4500285239	U ARIAS CORP 1855 IMPERIAL AVE NEW HYDE PARK, NY 11040-4008 US	SENY LANDSCAPING	S	2	8	N	04	1		186,000	147,955	23,155	38,045	5/8/2017	C		5/8/2018
4500286347	THE BABCOCK & WILCOX COMPANY 2849 STERLING DR HATFIELD, PA 19440-1956 US	CARBON MONOXIDE ANALYZER	E	B	5	F	N	3		36,929	36,556	36,046	373	6/8/2017	C		2/8/2018
4500286757	DETECT TANK SERVICES LLC 15 LEDGEVIEW LN NICHOLSON, PA 18446-8296 US	AMMONIA TANK INSPECTIONS	S	B	5	F	N	2		40,000	5,050	0	34,950	6/21/2017	C		6/20/2018
4500287079	ORR PROTECTION SYSTEMS INC 11601 INTERCHANGE DR LOUISVILLE, KY 40229-2159 US	CO2 UPGRADE	S	2	8	N	N	1		130,950	130,950	130,950	0	6/29/2017	C		9/13/2018
4500287137	CEMTEK SYSTEMS INC 1750 BRIELLE AVE - STE B2 OCEAN, NJ 07712-3953 US	HEATED SAMPLE LINE - UMBILICAL 160 FT	E	B	5	F	N	1		7,123	7,123	7,123	0	6/30/2017	C		8/2/2018
4500287165	PINNACLE PARTS & SERVICE CORP 18 HICKORY LN BAYVILLE, NJ 08721-2111 US	LUBRICATOR	E	B	5	F	N	1	*	8,528	8,528	8,528	0	7/5/2017	C		1/9/2018
4500287677	CONTROL ASSOCIATES INC 20 COMMERCE DR - PO BOX 279 ALLENDALE, NJ 07401-1600 US	7B PERFORMANCE HEATER VALVES	E	B	5	F	N	1		14,108	14,108	14,108	0	7/20/2017	C		3/1/2018
4500287769	D & L INSTALLATIONS INC 230 KNICKERBOCKER AVE BOHEMIA, NY 11716-3140 US	PARTS AND INSTALLATION OF ATLAS COPCO DRYER	S	2	5	N	03	1		47,445	47,445	47,445	0	7/21/2017	C		4/17/2018
4500287833	HITACHI T & D SOLUTIONS INC 7250 MCGINNIS FERRY RD SUWANEE, GA 30024-1245 US	HITACHI GENERATOR PREVENTATIVE MAINTENANCE SERVICE AND MATERIALS, 12 YEAR	S	1	8	F	N	1		659,458	659,458	659,458	0	12/8/2017	C		11/16/2018
4500287908	CONTROL ASSOCIATES INC 20 COMMERCE DR - PO BOX 279 ALLENDALE, NJ 07401-1600 US	FALL OUTAGE HSRG BLOWDOWN VALVE UPGRADE	E	B	5	F	N	2	*	27,232	27,232	27,232	0	7/26/2017	C		6/18/2018

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4500288069	STRATEGIC POWER SYSTEMS INC STE 275 11016 RUSHMORE DRIVE CHARLOTTE, NC 28277-4166 US	OPERATIONAL RELIABILITY ANALYSIS PROGRAM	S	2	5	F	N	1		15,600	15,600	15,600	0	7/31/2017	C		2/26/2018
4500288167	ENVIRONMENT ONE CORP 2773 BALLTOWN RD NISKAYUNA, NY 12309-1090 US	E-ONE DHCP PANEL UPGRADE	E	1	8	N	N	1		262,348	0	0	262,348	10/23/2017	C		1/2/2018
4500288402	REXA INC 4 MANLEY ST WEST BRIDGEWATER, MA 02379-1017 US	REXA ACTUATORS	E	C		F	N	4	*	211,991	211,991	211,991	0	8/9/2017	C		4/9/2018
4500288547	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	BUSHING, TRANSFORMER	E	B	5	F	N	4		17,940	17,940	17,940	0	8/14/2017	C		3/8/2018
4500288555	VALLEY TECH INC PO BOX 124 WHITEHOUSE STATION, NJ 08889-0124 US	PULSA METERING PUMP AND ACID REPAIR KIT	E	B	5	F	N	1		13,187	13,186	13,186	1	8/14/2017	C		3/29/2018
4500288583	ATLANTIC COOLING TECHNOLOGIES & SERVICES LLC 80 KERO RD CARLSTADT, NJ 07072-2604 US	COOLING TOWER MAINTENANCE	S	2	5	F	N	1		16,200	16,200	0	0	1/17/2018	C		1/26/2018
4500288600	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	GAS RECYCLE VALVE	E	B	5	F	N	1	*	23,024	23,024	23,024	0	8/15/2017	C		1/3/2018
4500288738	ORR PROTECTION SYSTEMS INC 11601 INTERCHANGE DR LOUISVILLE, KY 40229-2159 US	CO2 SYSTEM UPGRADE MATERIALS AND LABOR	S	2	8	F	N	1		199,641	184,341	184,341	15,300	11/30/2017	C		2/27/2018
4500289384	KONECRANES INC 1020 LEHIGH STATION RD HENRIETTA, NY 14467-9369 US	ACC MONORAIL INSPECTION AND 80 TON CRANE LOAD TESTING	S	B	5	F	N	1		37,772	37,772	15,557	0	9/8/2017	C		7/27/2018
4500289418	HP VALVES BV PO BOX 50040 HENGELO, 02 7554 LA NL	STEM PACKING AND BONNET GASKET	E	B	5	F	N	1		16,764	16,764	16,764	0	9/11/2017	C		10/10/2018
4500289445	ORR PROTECTION SYSTEMS INC 11601 INTERCHANGE DR LOUISVILLE, KY 40229-2159 US	LPCO2 RELIEF ASSEMBLY	E	B	5	N	N	1		23,864	15,300	15,300	8,564	11/30/2017	O	2/28/2019	
4500289555	BALTIMORE AIRCOIL CO 560 WHITE PLAINS RD TARRYTOWN, NY 10591 US	SHEAVE, BELTS FOR AUX COOLING TOWER	E	B	5	F	N	3		13,849	13,849	12,044	0	9/14/2017	C		1/9/2018
4500289610	EAGLE EYE POWER SOLUTIONS LLC 4031 W KIEHNAUE AVE MILWAUKEE, WI 53209-3022 US	EAGLE EYE BATTERY MONITORING SYSTEMS	E	B	5	F	N	1		36,675	36,675	26,770	0	10/27/2017	C		2/6/2018
4500289623	THIELSCH ENGINEERING INC 195 FRANCES AVE CRANSTON, RI 02910-2211 US	PIPE HANAR AND SUPPORT SURVEY	S	B	5	N	N	3		44,750	44,750	4,500	0	9/15/2017	C		3/20/2018
4500289711	IRIS POWER LP 3110 AMERICAN DR MISSISSAUGA, ON L4V 1T2 CA	PD DATA COLLECTION SERVICES FLYNN	S	1	5	F	N	1	*	15,107	15,107	15,107	0	9/19/2017	C		8/22/2018
4500289772	D & L INSTALLATIONS INC 230 KNICKERBOCKER AVE BOHEMIA, NY 11716-3140 US	ATLAS COPCO BD300	S	B	5	N	03	1		47,445	47,445	47,445	0	9/20/2017	C		5/11/2018
4500289810	EAGLE EYE POWER SOLUTIONS LLC 4031 W KIEHNAUE AVE MILWAUKEE, WI 53209-3022 US	SCPP BATTERY MONITORING SYSTEMS	E	1	8	F	N	1		80,310	77,940	77,940	2,370	9/20/2017	C		1/9/2018

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4500289852	GE INDUSTRIAL SYSTEMS INC 180 ROTTERDAM IND PARK - BLDG 1 B8 ROTTERDAM, NY 12306-1920 US	GE REMOTE RACKING DEVICE	E	B	5	N	N	2		6,060	6,060	6,060	0	9/21/2017	C		2/14/2018
4500290002	CONTROL COMPONENTS INC AN IMI COMPANY 22591 AVENIDA EMPRESA RANCHO SANTA MARGARITA, CA 92688 US	IMI CCI HRH SKYVENT VALVE REPLACEMENTS	E	C	8	F	N	1		444,509	424,909	216,830	19,600	11/1/2017	O	2/28/2019	
4500290346	KINEQUIP INC 7340 THOMPSON RD N N SYRACUSE, NY 13212 US	FUEL	E	B	5	N	N	3	*	5,449	5,449	5,449	0	10/5/2017	C		5/24/2018
4500290423	INDUSTRIAL PROCESS SOLUTIONS DBA FOR FLUID FLOW PRODUCTS INC ONE IVYBROOK BLVD - STE 130 IVYLAND, PA 18974 US	FILTER, ELEMENT, CARTRIDGE PALL	E	B	5	F	N	3	*	5,373	5,373	5,373	0	10/9/2017	C		1/16/2018
4500290487	GENERAL MONITORS INC 26776 SIMPATICA CIR LAKE FOREST, CA 92630-8128 US	GAS CONTROLLER	E	B	5	N	N	1	*	5,679	5,679	5,679	0	10/10/2017	C		8/9/2018
4500290640	ADVANCED FILTRATION CO PO BOX 324 HOWELL, NJ 07731-0324 US	FILTER HOUSING, GASKET, COVER	E	B	5	F	N	4	*	5,810	5,810	5,810	0	10/13/2017	C		2/13/2018
4500290698	MIRATECH KNOXVILLE LLC 1729 LOUISVILLE DR KNOXVILLE, TN 37921 US	CO CATALYST SET FOR POUCH TERMINAL - NAES	E	B		F	N	1	*	242,035	242,035	242,035	0	10/16/2017	C		4/26/2018
4500290776	R V P FLOORING SYSTEMS INC 35 COMMERCE DR STE B CARMEL, NY 10512-4211 US	REFINISH NEW CONFERENCE ROOM FLOOR BEHIND CONTROL ROOM	S	2	8	N	03	1		33,570	33,570	33,570	0	10/18/2017	C		8/14/2018
4500291018	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	GE STREET LED LIGHTS	E	B	5	N	01	3		32,730	32,730	32,730	0	10/30/2017	C		1/3/2018
4500291019	BORRI POWER (US) INC 9000 CLAY RD UNIT 108 HOUSTON, TX 77080-1770 US	BORRI SPA INVERTER	E	1	8	F	N	1		33,604	28,004	28,004	5,600	10/26/2017	C		3/15/2018
4500291076	CONTROL ASSOCIATES INC 20 COMMERCE DR - PO BOX 279 ALLENDALE, NJ 07401-1600 US	Z500 BALL VALVES, 1", 1.5", 2"	E	B	5	F	N	3	*	24,003	24,003	24,003	0	10/27/2017	C		4/17/2018
4500291210	C E M SOLUTIONS INC 1183 E OVERDRIVE CIR HERNANDO, FL 34442-9628 US	TUBE BUNDLE, 170' HEATED CEMS	E	B	5	F	N	3		7,275	0	0	7,275	11/2/2017	C		1/2/2018
4500291245	THREE GALS INDUSTRIAL LLC PO BOX 177 OYSTER BAY, NY 11771-0177 US	SPACE HEATER, TURBINE/GENERATOR	E	B	5	N	03	3		8,060	8,060	8,060	0	11/2/2017	C		1/5/2018
4500291271	IMAGEVISION INC 114 S ECHOLS ST CALDWELL, TX 77836-1726 US	IMAGEVISION SUPPLIES	E	B	5	F	N	2	*	6,695	6,695	6,695	0	11/8/2017	C		2/9/2018
4500291518	HOERBIGER SERVICE INC 12 MCCULLOUGH BLDG. #4 NEW CASTLE, DE 19720 US	PUMP, LUBE OIL SHAFT DRIVEN PUMP	E	B	5	F	N	4	*	8,669	8,669	8,669	0	11/22/2017	C		7/6/2018
4500291853	DEAN ENERGY SOLUTIONS CORP 1332 CLINTON ST HOBOKEN, NJ 07030-3302 US	REMOVE AND REPLACE VAV BOX ON THIRD FLOOR ADMIN BLDG	S	2	8	F	N	1		145,930	113,400	113,400	32,530	11/21/2017	C		11/19/2018
4500292092	ELECTRO INDUSTRIES 1800 SHAMES DR WESTBURY, NY 11590 US	ELECTRO INDUSTRIES SHARK METERS	E	B	5	N	N	3	*	50,075	50,075	37,235	0	11/29/2017	C		1/25/2018

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4500292121	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	CONTROL VALVE ACTUATORS AND FEEDBACK SIGNALS	E	B	5	F	N	1		30,102	28,198	28,198	1,904	12/5/2017	C		7/19/2018
4500292125	GE INFRASTRUCTURE INC WATER & PROCESS TECHNOLOGIES 4636 SOMERTON RD TREVOSE, PA 19053 US	CORTROL IS104	E	B	5	N	N	3		7,775	7,775	7,775	0	11/30/2017	C		2/15/2018
4500292233	A & M INDUSTRIAL SUPPLY CO 1414 CAMPBELL ST - PO BOX 1044 RAHWAY, NJ 07065-1044 US	TRANSMITTER, TANK LEVEL	E	B	5	F	N	3		5,245	5,245	5,245	0	12/4/2017	C		1/19/2018
4500292294	GE PACKAGED POWER INC 15855 JACINTOPORT BLVD HOUSTON, TX 77015 US	FUEL	E	B	5	F	N	4	*	21,826	21,826	21,826	0	12/5/2017	C		4/10/2018
4500292375	CARE SECURITY SYSTEM INC 7 HEMION RD STE 5 MONTEBELLO, NY 10901-4928 US	DELTA GATE BARRIER BI-ANNUAL INSPECTIONS	S	B	5	F	N	1		49,000	35,525	35,525	13,475	12/7/2017	C		12/6/2018
4500292387	VALVE INDUSTRIES INC 4 SLATE CT - APT D-2 WOODLAND PARK, NJ 07424-4247 US	ECONOMIZER PUMP, HRSG WITH MOTOR ALSO WITH COOL TOP	E	B	5	F	N	3		8,360	8,360	8,360	0	12/8/2017	C		3/12/2018
4500292403	WALTER T GORMAN PE PC 99 TULIP AVE - STE 106 FLORAL PARK, NY 11001-1927 US	GAS PIPE MODIFICATIONS - PERMITTING	S	2	8	N	N	1		18,500	18,417	18,417	83	12/8/2017	C		6/8/2018
4500292752	SIEMENS ENERGY INC 85 JOHN RD - UNIT 1 CANTON, MA 02021-2826 US	SIEMENS ENERGY - STOCK PARTS	E	B	5	F	N	1		11,901	0	0	11,901	12/19/2017	C		12/18/2018
4500292790	GE ENERGY CONTROL SOLUTIONS INC 1800 NELSON RD LONGMONT, CO 80501-6324 US	GE OVERHAUL STOP RATIO VALVE	S	B	5	F	N	1		22,545	22,545	22,545	0	12/20/2017	C		2/23/2018
4500292796	TRITON BUILDERS INC 645 BROADWAY - STE T AMITYVILLE, NY 11701-2118 US	FENCE	S	B	5	N	03	1		24,000	0	0	24,000	12/20/2017	C		12/19/2018
4500292978	ELECTRO INDUSTRIES 1800 SHAMES DR WESTBURY, NY 11590 US	NEXUS METER, MODEM/ETHERNET	E	B	5	N	N	3	*	10,702	10,702	10,702	0	12/28/2017	C		1/29/2018
4500293002	WESCO DISTRIBUTION INC PO BOX 390 SYRACUSE, NY 13201-0390 US	GE LED LIGHTS	E	B	5	N	N	4		5,336	5,336	5,336	0	12/29/2017	C		4/2/2018
4500293087	FILTER-DOC CORPORATION 303 E BROOKS RD MEMPHIS, TN 38109-2917 US	INLET FILTER AND MIST ELIMINATOR REPLACEMENT	S	B		F	N	2		130,000	125,000	125,000	5,000	1/3/2018	C		5/31/2018
4500293154	EDGE ELECTRONICS INC 75 ORVILL DR - STE 2 BOHEMIA, NY 11716-2528 US	HEATERS	E	B	5	F	03	3		14,651	14,651	14,651	0	1/5/2018	C		3/19/2018
4500293175	RESA POWER LLC 40 OLIVER TERR - PO BOX 619 SHELTON, CT 06484-0343 US	NEUTRAL CONTROL TRANSFORMER	E	B	5	F	N	2		6,033	6,033	6,033	0	1/5/2018	C		4/30/2018
4500293177	AMERICAN INDUSTRIAL SUPPLY CORP PO BOX 934 PERTH AMBOY, NJ 08862 US	CHECK VALVES, A361 1/2", 3/4", 1"	E	B	5	F	N	3	*	5,272	5,272	5,272	0	1/5/2018	C		3/27/2018
4500293236	NORTH EAST TECHNICAL SALES 171 RUTH RD HARLEYSVILLE, PA 19438 US	AMMONIA SENSORS AND TRANSMITTERS	E	B	5	F	N	4	*	15,353	15,353	15,353	0	1/9/2018	C		3/9/2018

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4500293313	YOUNG & FRANKLIN INC 942 OLD LIVERPOOL RD LIVERPOOL, NY 13088-5596 US	REPAIR IGV ACTUATOR	S	B	5	N	N	3		19,099	19,099	19,099	0	1/10/2018	C		4/17/2018
4500293398	AERODERIVATIVE GAS TURBINE SUPPORT INC 1141 S ROGERS CIR - STE 11 BOCA RATON, FL 33487-2789 US	HEATERS, TURBINE AND GENERATOR-RUFFNECK	E	B	5	F	N	4	*	6,258	6,258	6,258	0	1/12/2018	C		1/29/2018
4500293571	POWER HOUSE TOOL 626 NICHOLSON ST JOLIET, IL 60435 US	POWER HOUSE TOOL POWER PACKS FOR OUTAGE	E	B	5	F	N	1		15,530	15,530	15,530	0	1/17/2018	C		3/26/2018
4500293588	EDGE ELECTRONICS INC 75 ORVILL DR - STE 2 BOHEMIA, NY 11716-2528 US	ELECTRIC UNIT HEATER	E	B	5	N	03	3		7,208	7,208	7,208	0	1/18/2018	C		1/24/2018
4500293662	VALVE INDUSTRIES INC 4 SLATE CT - APT D-2 WOODLAND PARK, NJ 07424-4247 US	AIR EJECTOR FLOWMETER	E	B	5	F	N	2	*	8,190	8,190	8,190	0	1/19/2018	C		3/23/2018
4500293743	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	AMMONIA FLOW CONTROL VALVE	E	B	5	F	N	1	*	5,716	5,716	5,716	0	1/23/2018	C		4/2/2018
4500293856	INDUSTRIAL PROCESS SOLUTIONS DBA FOR FLUID FLOW PRODUCTS INC ONE IVYBROOK BLVD - STE 130 IVYLAND, PA 18974 US	PALL FILTERS	E	B	5	F	N	3	*	6,313	6,313	6,313	0	1/25/2018	C		2/23/2018
4500293873	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	POSITIONER, DIGITAL WITH FEEDBACK	E	B	5	F	N	3	*	6,758	6,758	6,758	0	1/25/2018	C		2/8/2018
4500293878	RARITAN GROUP INC PO BOX 10120 NEW BRUNSWICK, NJ 08906-0120 US	GLOBE VALVES	E	B	5	F	N	2		12,630	12,630	12,630	0	1/25/2018	C		3/26/2018
4500293882	GE INFRASTRUCTURE INC WATER & PROCESS TECHNOLOGIES 4636 SOMERTON RD TREVOSE, PA 19053 US	SUPPLY TESTING CHEMICALS	E	B	5	F	N	1		5,000	4,845	4,845	155	1/25/2018	O	2/28/2019	
4500293933	VOGT POWER INTERNATIONAL INC 13551 TRITON PARK BLVD - STE 2000 LOUISVILLE, KY 40223-4213 US	VOGT HRSG INSPECTION	S	B	5	F	N	3		22,800	22,800	22,800	0	1/26/2018	C		8/21/2018
4500293955	D & L INSTALLATIONS INC 230 KNICKERBOCKER AVE BOHEMIA, NY 11716-3140 US	ANNUAL PM SERVICE FOR BOTH INSTRUMENT AIR COMPRESSORS	S	B	5	N	03	1		19,292	19,292	19,292	0	1/29/2018	C		7/3/2018
4500293981	ADVANCED FLUID SYSTEMS INC PO BOX 360 - 292 GREEN ST ROYERSFORD, PA 19468-0360 US	MOOG VALVES REFURBISHMENT	S	2	8	F	N	1		262,231	262,231	262,231	0	1/29/2018	C		10/24/2018
4500294100	GENERAL ELECTRIC INTERNATIONAL INC 475 CREAMERY WAY EXTON, PA 19341-2546 US	BALL VALVE, WATER INJECTION STOP, 2"	E	B	5	F	N	3		19,147	0	0	19,147	1/31/2018	O	2/28/2019	
4500294230	ADVANCED DRY ICE BLASTING DBA FOR ADV INDOOR AIR QUALITY CARE 3 KADEL DR MT ARLINGTON, NJ 07856-1223 US	TUBE CLEANING OF HRSG UNITS 7A AND 7B FOR SPRING OUTAGE	S	M	8	F	03	1		134,095	134,095	134,095	0	2/5/2018	C		11/19/2018

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4500294261	GE PACKAGED POWER INC 15855 JACINTOPORT BLVD HOUSTON, TX 77015 US	POSITIONER	E	B	5	F	N	3	*	10,276	10,276	10,276	0	2/5/2018	C		4/10/2018
4500294288	CONTROL ASSOCIATES INC 20 COMMERCE DR - PO BOX 279 ALLENDALE, NJ 07401-1600 US	Z500 VALVES 2" AND 1.5"	E	B	5	F	N	3	*	8,442	8,442	8,442	0	2/6/2018	C		7/25/2018
4500294292	TURTLE & HUGHES INC 59 MALL DR - PO BOX 9027 COMMACK, NY 11725-9027 US	FUJI PCB BOARD	E	B	5	N	03	3		5,355	5,355	5,355	0	2/6/2018	C		5/9/2018
4500294371	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	MISCELLANEOUS STOCK ITEMS	E	B	5	F	N	1	*	31,892	31,892	31,892	0	2/7/2018	C		4/2/2018
4500294394	THREE GALS INDUSTRIAL LLC PO BOX 177 OYSTER BAY, NY 11771-0177 US	PREVENTIVE MAINTENANCE KIT, AND LUBRICANT OIL	E	B	5	N	03	3		7,452	7,452	7,452	0	2/8/2018	C		3/9/2018
4500294404	FILCO CARTING CORP 197 SNEDIKER AVE BROOKLYN, NY 11207-3320 US	FILCO GARBAGE DISPOSAL	S	2	8	N	N	1		60,000	34,498	34,498	25,502	2/8/2018	O	2/8/2019	
4500294406	YORK SCAFFOLD EQUIPMENT CORP 3720 TWELFTH ST LONG ISLAND CITY, NY 11101-6009 US	SCAFFOLD SERVICES FOR 500MW SPRING OUTAGE	S	C	8	N	N	3		131,519	91,381	91,381	40,138	2/8/2018	C		12/31/2018
4500294454	DIVAL SAFETY EQUIPMENT INC 1721 NIAGARA ST BUFFALO, NY 14207-3108 US	MSA CONFINED SPACE METERS	E	B	5	N	N	2		36,308	36,308	36,308	0	2/9/2018	C		3/27/2018
4500294458	RELEVANT SOLUTIONS LLC DBA FOR TMEC DISTRIBUTION LLC 1423 E RICHEY RD HOUSTON, TX 77073-3508 US	FILTER, WATER, DUPLEX	E	B	5	F	N	2	*	12,091	12,091	12,091	0	2/9/2018	C		3/9/2018
4500294495	THIELSCH ENGINEERING INC 195 FRANCES AVE CRANSTON, RI 02910-2211 US	HRSG PIPE INSPECTIONS PHASE II	S	C	8	F	N	2		375,750	172,600	172,600	203,150	2/12/2018	C		12/31/2018
4500294544	CONTROL ASSOCIATES INC 20 COMMERCE DR - PO BOX 279 ALLENDALE, NJ 07401-1600 US	Z500 2" BALL VALVE	E	B	5	F	N	1	*	5,267	5,267	5,267	0	2/13/2018	C		4/17/2018
4500294571	EAGLE EYE POWER SOLUTIONS LLC 4031 W KIEHNAUE AVE MILWAUKEE, WI 53209-3022 US	BATTERY MONITORING SYSTEM STATION BATTERY BANK	E	B	5	F	N	3		19,935	19,935	19,935	0	2/13/2018	C		4/26/2018
4500294627	AVID SOLUTIONS INC 2975 COLE RD WINSTON-SALEM, NC 27107-4511 US	MARK VI SUPPORT DURING SPRING OUTAGE	S	B	5	F	N	2		10,335	9,996	9,996	339	2/15/2018	C		12/31/2018
4500294652	ELECTRO INDUSTRIES 1800 SHAMES DR WESTBURY, NY 11590 US	NEXUS METER 1450 AND 1272 PLUS ADAPTERS	E	B	5	N	N	2	*	14,596	14,596	14,596	0	2/15/2018	C		6/27/2018
4500294657	AMETEK POWER INSTRUMENTS 255 N UNION ST ROCHESTER, NY 14605-2644 US	METER, JEMSTAR II	E	B	5	N	N	3	*	15,113	15,113	15,113	0	2/15/2018	C		3/26/2018
4500294670	POWELL ELECTRICAL SYSTEMS INC 8550 MOSLEY DR HOUSTON, TX 77075 US	CONNECTORS	E	B	5	N	N	3	*	10,420	10,420	10,420	0	2/15/2018	C		4/13/2018
4500294674	FILTER-DOC CORPORATION 303 E BROOKS RD MEMPHIS, TN 38109-2917 US	MUNSTER MIST ELIMINATOR PANELS	E	B	5	F	N	1	*	42,790	42,790	42,790	0	2/15/2018	C		6/26/2018

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4500294676	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	RINGS, GASKET, PACKING SET	E	B	5	N	N	4	*	7,166	7,166	7,166	0	2/15/2018	C		4/13/2018
4500294699	GENERAL ELECTRIC CANADA HOLDINGS GENERAL ELECTRIC CANADA 180 CONSTELLATION DRIVE ONTARIO, ON L8E 6B2 CA	BUSHINGS FOR TRANSFORMER	E	B	5	F	N	3		11,405	11,405	11,405	0	2/16/2018	C		12/17/2018
4500294862	AMETEK POWER INSTRUMENTS 255 N UNION ST ROCHESTER, NY 14605-2644 US	SENSOR, FLAME TURBINE	E	B	5	N	N	3	*	6,196	6,196	6,196	0	2/21/2018	C		6/7/2018
4500294931	DAIKIN APPLIED AMERICAS INC DBA DAIKIN APPLIED 13600 INDUSTRIAL PARK BLVD MINNEAPOLIS, MN 55441-3743 US	CONTROL PANEL MICROTECH	E	B	5	F	N	1		22,000	22,000	22,000	0	2/23/2018	C		4/24/2018
4500294949	NORTH EAST TECHNICAL SALES 171 RUTH RD HARLEYSVILLE, PA 19438 US	TRANSMITTER, MISCELLANEOUS	E	B	5	F	N	2	*	5,038	5,038	5,038	0	2/26/2018	C		4/25/2018
4500295032	AERODERIVATIVE GAS TURBINE SUPPORT INC 1141 S ROGERS CIR - STE 11 BOCA RATON, FL 33487-2789 US	FUEL	E	B	5	F	N	2	*	45,830	45,830	45,830	0	2/27/2018	C		4/10/2018
4500295055	GRADE A PETROLEUM CORP 90 EAST HAWTHORNE AVE VALLEY STREAM, NY 11582-1238 US	OIL, EASTMAN TURBO	E	B	5	N	N	1	*	10,691	10,691	10,691	0	2/28/2018	C		3/8/2018
4500295074	VETERAN ELECTRICAL SUPPLY INC 864 WILLIS AVE STE 4 ALBERTSON, NY 11507-1930 US	LIGHTING FIXTURES	E	B	5	N	02	4		6,300	6,300	6,300	0	2/28/2018	C		4/11/2018
4500295144	CEMTEK SYSTEMS INC 1750 BRIELLE AVE - STE B2 OCEAN, NJ 07712-3953 US	5' PROBE STINGER	E	B	5	F	N	3	*	6,824	6,824	6,824	0	3/2/2018	C		5/3/2018
4500295269	AERODERIVATIVE GAS TURBINE SUPPORT INC 1141 S ROGERS CIR - STE 11 BOCA RATON, FL 33487-2789 US	ACCELEROMETER, CRF, P27	E	B	5	F	N	3	*	18,028	18,028	18,028	0	3/6/2018	C		3/14/2018
4500295529	ATLANTIC EQUIPMENT RESOURCES LLC 70 KINDERKAMACK RD STE 200 EMERSON, NJ 07630-1812 US	RINGS	E	B	5	F	N	1	*	15,344	15,344	15,344	0	3/14/2018	C		6/21/2018
4500295573	ATLANTIC EQUIPMENT RESOURCES LLC 70 KINDERKAMACK RD STE 200 EMERSON, NJ 07630-1812 US	RING SEALS, BUSHINGS, O RINGS PUMP SET	E	B	5	F	N	1	*	10,121	10,121	10,121	0	3/15/2018	C		6/7/2018
4500295584	BOLTTECH MANNINGS INC 321 RICHARD MINE RD - STE 300 WHARTON, NJ 07885-1838 US	BOLTTECH MANNING INDUCTION HEATING	S	2	8	F	N	1		5,219	4,954	4,954	265	3/15/2018	C		4/20/2018
4500295616	AIRLINE HYDRAULICS CORP 3557 PROGRESS DR BENSALEM, PA 19020-5896 US	ACTUATOR REBUILD AND OVERHAUL	S	2	5	F	N	1		23,219	16,365	16,365	6,854	3/16/2018	O	2/28/2019	
4500295670	D & L INSTALLATIONS INC 230 KNICKERBOCKER AVE BOHEMIA, NY 11716-3140 US	40 HP ROTARY SCREW AIR COMPRESSOR	E	B	5	N	03	2	*	34,064	34,064	34,064	0	3/19/2018	C		9/7/2018
4500295715	WESCO DISTRIBUTION INC PO BOX 390 SYRACUSE, NY 13201-0390 US	RUFFNECK HEATER	E	B	5	N	N	3		14,385	14,385	14,385	0	3/20/2018	C		8/25/2018

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4500296060	WESCO DISTRIBUTION INC PO BOX 390 SYRACUSE, NY 13201-0390 US	STARTER, EATON/CUTLER HAMMER	E	B	5	F	N	3		12,716	12,716	12,716	0	3/30/2018	C		9/28/2018
4500296223	HAYES PUMP INC 295 FAIRFIELD AVE FAIRFIELD, NJ 07004-3833 US	GOULDS PUMP	E	B	5	F	N	3		12,241	12,241	12,241	0	4/5/2018	C		8/2/2018
4500296225	EMERGENCY ONE DBA FOR ANDERSON MEDICAL PC 40 HURLEY AVE KINGSTON, NY 12401-3738 US	ON-SITE ANNUAL PHYSICALS	P	B	5	N	04	3		24,000	22,875	22,875	1,125	4/5/2018	O	2/28/2019	
4500296281	CUTSFORTH INC 37837 ROCK HAVEN RD COHASSET, MN 55721-8912 US	CUTSFORTH GROUND ASSEMBLY SPRING OUTAGE	E	B	5	F	N	2		10,726	10,726	10,726	0	4/6/2018	C		8/7/2018
4500296413	GP STRATEGIES CORP 11000 BROKEN LAND PKWY STE 200 COLUMBIA, MD 21044-3555 US	N2 PACKING LEAK TEST	S	1	5	F	N	1		13,800	13,800	13,800	0	4/10/2018	C		9/11/2018
4500296558	STARFISH PPS LLC 1419 VANDERBILT TYLER, TX 75703-0828 US	SOLENOID VALVE WATER DRAIN	E	B	5	F	N	2	*	5,890	5,890	5,890	0	4/13/2018	C		8/17/2018
4500296588	HAYES PUMP INC 295 FAIRFIELD AVE FAIRFIELD, NJ 07004-3833 US	OVERHAUL AND INSTALL CONDENSATE PUMP A	S	2	5	F	N	1		13,040	10,540	10,540	2,500	4/16/2018	O	2/28/2019	
4500296622	DONALDSON CO INC PO BOX 1299 MINNEAPOLIS, MN 55440-1299 US	DONALDSON FILTERS FOR NAES CHANGEOUT	E	B		F	N	3	*	83,631	83,631	83,631	0	4/17/2018	C		12/13/2018
4500296628	WORLD WIDE GAS TURBINE PRODUCTS INC 300 COMMERCE DR CLIFTON PARK, NY 12065-1317 US	FLAME DETECTORS	E	B	5	N	01	1	*	9,741	9,741	9,741	0	4/17/2018	C		7/5/2018
4500296650	CADY ENTERPRISE INC 1336 FOX HILL RD - PO BOX 154 ULYSSES, PA 16948-9352 US	GAS COMPRESSOR PARTS	E	B	5	F	N	1	*	8,025	8,025	8,025	0	4/17/2018	C		9/21/2018
4500296652	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	PLUG	E	B	5	F	N	1	*	7,118	7,118	7,118	0	4/17/2018	C		6/6/2018
4500296655	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	MARK ONE-X CONTROL VALVE	E	B	5	F	N	1	*	50,403	50,403	50,403	0	4/17/2018	C		9/6/2018
4500296685	IRIS POWER LP 3110 AMERICAN DR MISSISSAUGA, ON L4V 1T2 CA	IRIS POWER PANELS	E	B		F	N	3		91,945	91,945	91,945	0	4/18/2018	C		7/25/2018
4500296871	TURBINE TRENDS LLC PO BOX 26 SPOTSWOOD, NJ 08884-0026 US	BOLT SETS, CLAM SHELL, INLET EXPANSION JOINT, VBV DUCT BOLT	E	B	5	F	N	3	*	5,245	5,245	5,245	0	4/24/2018	C		5/9/2018
4500296874	ACLARA METERS LLC DBA FOR METER READINGS HOLDING LLC 6135 PARK SOUTH DR STE 508 CHARLOTTE, NC 28210 US	ACLARA METERS	E	B	5	F	N	2		14,369	14,369	14,369	0	4/24/2018	C		5/18/2018
4500296914	MILLER ENERGY INC DBA FOR H M MILLER SALES CO 3200 S CLINTON AVE SOUTH PLAINFIELD, NJ 07080-1424 US	THERMO ORION SODIUM ANALYZER	E	B	5	F	N	3		25,706	0	0	25,706	4/25/2018	O	2/28/2019	
4500296943	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	BOILER FEED PUMP ITEMS	E	B	5	F	N	2	*	31,920	31,920	31,920	0	4/26/2018	C		8/20/2018

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4500296975	ACFM DYNAMICS LLC PO BOX 386 MARION, CT 06444-0386 US	ACMF BLOWER	E	B	5	F	N	2		6,751	6,751	6,751	0	4/26/2018	C		8/24/2018
4500296983	EL ELECTRONICS LLC 1800 SHAMES DR WESTBURY, NY 11590-1730 US	NEXUS METER	E	B	5	N	N	1	*	11,814	11,814	11,814	0	4/26/2018	C		6/20/2018
4500297017	D & L INSTALLATIONS INC 230 KNICKERBOCKER AVE BOHEMIA, NY 11716-3140 US	AIR COMPRESSOR	E	B	5	N	03	2	*	16,477	16,477	16,477	0	4/27/2018	C		6/20/2018
4500297032	GOTHAM REFINING CHEMICAL CORP 2374 48TH ST ASTORIA, NY 11103-1014 US	COOLING TOWER CLEANING	S	B	5	N	N	3		9,800	9,800	9,800	0	4/27/2018	C		6/15/2018
4500297121	TEG ENERGY GROUP INC 19 MORRIS AVE BLDG 128 BROOKLYN, NY 11205 US	SCPP ON-CALL SUPPORT	S	M	8	N	N	1		200,000	24,600	24,600	175,400	5/1/2018	O	4/30/2019	
4500297126	HELBERG ELECTRICAL SUPPLY LLC 12B FILMORE PL FREEPORT, NY 11520-3365 US	LIGHTING ARRESTOR, MISCELLANEOUS ARRESTOR	E	B	5	N	04	2		6,704	6,704	6,704	0	5/1/2018	C		6/20/2018
4500297399	CINCINNATI GEARING SYSTEMS INC 5757 MARIEMONT AVE CINCINNATI, OH 45227-4216 US	GAS COMPRESSOR PINION	E	B	5	F	N	2	*	27,589	27,589	27,589	0	5/9/2018	C		5/25/2018
4500297409	FLOWSERVE PUMP CORP PO BOX 3565 SCRANTON, PA 18505-3565 US	INGERSOLL-RAND PARTS FOR FLYNN PUMP	E	B	5	F	N	2	*	10,634	10,634	10,634	0	5/9/2018	C		7/16/2018
4500297413	ARCHROCK SERVICES LP 305 E FAIRMOUNT AVE - STE D LAKEWOOD, NY 14750-2000 US	PISTON ROD IAVM0002	E	B	5	N	N	2	*	6,958	6,958	6,958	0	5/9/2018	C		6/12/2018
4500297482	CONTROL ASSOCIATES INC 20 COMMERCE DR - PO BOX 279 ALLENDALE, NJ 07401-1600 US	Z500 VALVES	E	B	5	F	N	3	*	41,322	41,322	41,322	0	5/11/2018	C		10/10/2018
4500297499	ANIXTER INC 2301 PATRIOT BLVD GLENVIEW, IL 60026 US	SHIELDED CABLES	E	B	5	F	N	1		5,876	5,876	5,876	0	5/11/2018	C		8/24/2018
4500297604	WORLD WIDE GAS TURBINE PRODUCTS INC 300 COMMERCE DR CLIFTON PARK, NY 12065-1317 US	IGNITOR PLUG	E	B	5	N	01	1		6,868	6,868	6,868	0	5/15/2018	C		6/21/2018
4500297677	KELLY & HAYES ELECTRICAL SUPPLY OF L I INC 66 SOUTHERN BLVD NESCONSET, NY 11767-1092 US	LIGHT, MISCELLANEOUS, WALL MOUNT, 120-277VAC	E	B	5	N	N	3		8,212	8,212	8,212	0	5/16/2018	C		6/4/2018
4500297699	CONTROL ASSOCIATES INC 20 COMMERCE DR - PO BOX 279 ALLENDALE, NJ 07401-1600 US	SPRAY NOZZLE	E	B	5	F	N	4	*	5,613	5,613	5,613	0	5/17/2018	C		5/24/2018
4500297700	LONGO ELECTRICAL MECHANICAL INC 1 HARRY SHUPE BLVD WHARTON, NJ 07885-1646 US	LONGO ELECTRIC RATCHET ASSEMBLY KIT	E	B	5	F	N	1		29,913	29,913	29,913	0	5/17/2018	C		12/4/2018
4500297705	GRADE A PETROLEUM CORP 90 EAST HAWTHORNE AVE VALLEY STREAM, NY 11582-1238 US	OIL, EASTMAN TURBO	E	B	5	N	N	1	*	21,966	21,966	21,966	0	5/17/2018	C		6/22/2018

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4500297711	INTEGRITY POWER SOLUTIONS LLC DAVID CLARIDA 2708 CUMBERLAND DR EDMOND, OK 73034-8372 US	CT7A EXHAUST FRAME FIELD REFURBISHMENT	S	2	8	N	N	1		565,841	545,841	545,841	20,000	5/17/2018	C		11/20/2018
4500297715	R S CRUM & CO 1181 GLOBE AVE MOUNTAINSIDE, NJ 07092-0209 US	FITTINGS, UNIONS, UNION TEE, MALE CONNECTOR	E	B	5	F	N	2		6,666	6,666	6,666	0	5/17/2018	C		6/19/2018
4500297765	NORTH EAST TECHNICAL SALES 171 RUTH RD HARLEYSVILLE, PA 19438 US	AMMONIA SENSORS AND TRANSMITTERS	E	B	5	F	N	2		21,434	21,434	21,434	0	5/21/2018	C		8/17/2018
4500297797	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	TANKLESS HOT WATER HEATER	E	B	5	N	01	3		45,465	45,010	45,010	455	5/21/2018	C		6/11/2018
4500297823	KELLY & HAYES ELECTRICAL SUPPLY OF L I INC 66 SOUTHERN BLVD NESCONSET, NY 11767-1092 US	CABLE	E	B	5	N	N	2		6,050	6,050	6,050	0	5/22/2018	C		6/29/2018
4500297937	ALTAIR FILTER TECHNOLOGY INC DBA CLARCOR INDUSTRIAL AIR 11501 OUTLOOK ST - STE 100 OVERLAND PARK, KS 66211-1810 US	FILTER INLET	E	B	5	F	N	2		19,810	0	0	19,810	5/24/2018	O	2/28/2019	
4500297997	CUTSFORTH INC 37837 ROCK HAVEN RD COHASSET, MN 55721-8912 US	CUTSFORTH EQUIPMENT UPGRADE	E	B	5	F	N	1	*	49,590	49,590	49,590	0	5/29/2018	C		12/11/2018
4500298019	AERODERIVATIVE GAS TURBINE SUPPORT INC 1141 S ROGERS CIR - STE 11 BOCA RATON, FL 33487-2789 US	ACTUATOR, VSV/VIGV, L43418P02	E	B	5	F	N	3	*	14,912	14,912	14,912	0	5/29/2018	C		6/19/2018
4500298133	HATCH ASSOCIATES CONSULTANTS INC 100 SYLVAN PKWY AMHERST, NY 14228-1146 US	CASCADING BLOWDOWN FEASIBILITY STUDY AND DESIGN	S	B		F	N	7		121,600	50,800	50,800	70,800	6/1/2018	O	2/28/2019	
4500298289	EDGE ELECTRONICS INC 75 ORVILL DR - STE 2 BOHEMIA, NY 11716-2528 US	EXHAUST FRAME COOLING FAN MOTOR	E	B	5	N	03	2		5,540	5,540	5,540	0	6/7/2018	C		8/24/2018
4500298353	NOONEY CONTROLS CORP PO BOX 375 N KINGSTOWN, RI 02852-0375 US	FUEL	S	2	5	F	N	1		7,170	7,170	7,170	0	6/11/2018	C		8/24/2018
4500298356	YOUNG & FRANKLIN INC 942 OLD LIVERPOOL RD LIVERPOOL, NY 13088-5596 US	FUEL	S	2	5	N	N	1		13,995	13,995	13,995	0	6/11/2018	C		7/2/2018
4500298360	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	FLOWSERVE VALVE	E	B		F	N	1	*	223,444	223,444	223,444	0	6/11/2018	C		10/5/2018
4500298447	MILLER ENERGY INC DBA FOR H M MILLER SALES CO 3200 S CLINTON AVE SOUTH PLAINFIELD, NJ 07080-1424 US	TRANSMITTER, NH3 TANK LEVEL, MAGNETROL	E	B	5	F	N	2	*	5,644	5,644	5,644	0	6/13/2018	C		8/17/2018
4500298543	EDGE ELECTRONICS INC 75 ORVILL DR - STE 2 BOHEMIA, NY 11716-2528 US	GRAINGER PARTS	E	B	5	N	03	2		9,158	9,158	9,158	0	6/15/2018	C		7/6/2018

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4500298682	MARRIOTT LAGUARDIA DBA FOR KAR HOTEL OWNER LLC 10205 DITMARS BLVD EAST ELMHURST, NY 11369-1327 US	HOTEL SERVICE FOR RCM TRAINING	S	2	5	N	N	1		11,962	10,917	10,917	1,045	6/21/2018	C		9/27/2018
4500298697	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	FUEL	E	B	5	N	01	2		5,988	5,928	5,928	60	6/21/2018	C		7/18/2018
4500298708	AMETEK POWER INSTRUMENTS 255 N UNION ST ROCHESTER, NY 14605-2644 US	JEMSTAR II JEM2 RETROFIT METER	E	B	5	N	N	4	*	11,015	11,015	11,015	0	6/21/2018	C		7/27/2018
4500298847	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	VALVE OVERHAULS - PRO-QUIP	S	2	5	F	N	1		40,180	27,680	27,680	12,500	6/27/2018	O	2/28/2019	
4500299031	NORTH EAST TECHNICAL SALES 171 RUTH RD HARLEYSVILLE, PA 19438 US	SENSOR FLOW, POLYSTYRENE, FLO DAR SENSOR	E	B	5	F	N	2	*	14,636	14,636	14,636	0	7/5/2018	C		10/2/2018
4500299076	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	MISCELLANEOUS FLOWSERVE PARTS	E	B	5	F	N	2	*	6,544	6,544	6,544	0	7/5/2018	C		8/16/2018
4500299131	GEXPRO DBA REXEL USA INC 5500 MAIN ST - STE 301 WILLIAMSVILLE, NY 14221-6737 US	LAMPS, LED LIGHTING	E	B	5	F	N	4		22,953	22,953	22,953	0	7/9/2018	C		8/24/2018
4500299146	CLIPPERCREEK INC 11850 KEMPER RD STE E AUBURN, CA 95603-9013 US	ELECTRIC VEHICLE CAR CHARGERS PARTS	E	B	5	F	N	2		11,958	11,550	11,550	408	7/9/2018	C		8/15/2018
4500299180	VERTICAL ACCESS SOLUTIONS LLC 4465 CAMPBELLS RUN RD PITTSBURGH, PA 15205-1311 US	ON-CALL SCAFFOLDING SERVICES FOR SENY	S	B		F	N	1		625,000	624,989	624,989	11	7/10/2018	O	7/8/2019	
4500299181	WORLD WIDE GAS TURBINE PRODUCTS INC 300 COMMERCE DR CLIFTON PARK, NY 12065-1317 US	GUIDE CONTROL, SEAL, RING	E	B	5	N	01	1	*	22,946	22,946	22,946	0	7/10/2018	C		8/23/2018
4500299187	WALTER T GORMAN PE PC 99 TULIP AVE - STE 106 FLORAL PARK, NY 11001-1927 US	FUEL	S	2	5	N	N	1		12,500	0	0	12,500	7/10/2018	O	2/28/2019	
4500299213	REXA INC 4 MANLEY ST WEST BRIDGEWATER, MA 02379-1017 US	UPGRADE FROM X2 PM AND X3 ELECTRONICS	E	2	8	F	N	1		82,655	82,655	82,655	0	7/11/2018	C		11/9/2018
4500299226	RIVERHAWK CO 215 CLINTON RD NEW HARTFORD, NY 13413-5306 US	COUPLING BOLT TENSIONER EQUIPMENT FOR OUTAGE	E	B	5	N	N	3	*	41,743	41,743	41,743	0	7/11/2018	C		12/19/2018
4500299341	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	FUEL	E	B	5	F	N	2	*	24,469	24,469	24,469	0	7/13/2018	C		9/17/2018
4500299343	EL ELECTRONICS LLC 1800 SHAMES DR WESTBURY, NY 11590-1730 US	NEXUS METER	E	B	5	N	N	2	*	12,596	12,596	12,596	0	7/13/2018	C		8/8/2018
4500299374	HAYES PUMP INC 295 FAIRFIELD AVE FAIRFIELD, NJ 07004-3833 US	ON-CALL PUMP SERVICE AND REPAIR	S	B		F	N	1		500,000	0	0	500,000	7/16/2018	O	7/15/2019	

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4500299379	BENTLEY NEVADA LLC DBA FOR BAKER HUGHES A GE COMPANY L 475 CREAMERY WAY EXTON, PA 19341-2546 US	STEAM TURBINE PROBES	E	B	5	F	N	1	*	5,708	5,708	5,708	0	7/16/2018	C		9/7/2018
4500299388	RELEVANT SOLUTIONS LLC 1423 E RICHEY RD HOUSTON, TX 77073-3508 US	FILTER, WATER, DUPLEX, SPRINT SYSTEM	E	B	5	F	N	2	*	20,520	20,520	20,520	0	7/17/2018	C		9/19/2018
4500299442	AERODERIVATIVE GAS TURBINE SUPPORT INC 1141 S ROGERS CIR - STE 11 BOCA RATON, FL 33487-2789 US	T48 THERMOCOUPLE	E	B	5	F	N	3		6,900	6,900	6,900	0	7/18/2018	C		10/30/2018
4500299475	GRADE A PETROLEUM CORP 90 EAST HAWTHORNE AVE VALLEY STREAM, NY 11582-1238 US	OIL, EASTMAN TURBO	E	B	5	N	N	2	*	21,921	21,921	21,921	0	7/18/2018	C		8/8/2018
4500299558	MONTANA DATACOM 3515 11TH ST LONG ISLAND CITY, NY 11106-5013 US	MODULE, PRO SOFT 3150 MCM	E	B	5	N	03	2		6,188	6,188	6,188	0	7/20/2018	C		7/27/2018
4500299589	RONCO SPECIALIZED SYSTEMS INC 6310 DAEDALUS RD CICERO, NY 13039-8899 US	CLEAR TOUCH HARDWARE FOR ELECTRONIC DRAWINGS PROJECT	E	2	5	N	N	1		8,088	8,088	8,088	0	7/23/2018	C		8/28/2018
4500299592	SUR-SEAL INC 12 EDGEBORO RD - UNIT 6 EAST BRUNSWICK, NJ 08816-1651 US	MISCELLANEOUS ELECTRICAL EQUIPMENT	E	B	5	F	N	1	*	19,515	19,515	19,515	0	7/23/2018	C		9/25/2018
4500299594	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	ROOF FAN UPGRADE AND REPAIR	E	B	5	N	01	1		17,635	14,984	14,984	2,651	7/23/2018	C		9/18/2018
4500299614	KONECRANES INC 1020 LEHIGH STATION RD HENRIETTA, NY 14467-9369 US	OVERHEAD CRANE INSPECTIONS/PERFORMANCE AND TESTING	S	B	5	N	N	1		44,373	30,458	30,458	13,915	7/24/2018	O	2/28/2019	
4500299617	ICL-IP AMERICA INC 622 EMERSON RD CREVE COEUR, MO 63141-6742 US	FYRQUEL DRUMS	E	B	5	F	N	2		18,563	18,563	18,563	0	7/24/2018	C		10/10/2018
4500299638	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	VALVE ACTUATOR AND REPAIR SERVICE CONTRACT	S	B		F	N	1		500,000	367,385	367,385	132,615	7/24/2018	O	7/23/2019	
4500299640	RARITAN GROUP INC PO BOX 10120 NEW BRUNSWICK, NJ 08906-0120 US	AUMA ACTUATORS	E	B	5	F	N	2		8,998	8,998	8,998	0	7/24/2018	C		10/22/2018
4500299646	AERODERIVATIVE GAS TURBINE SUPPORT INC 1141 S ROGERS CIR - STE 11 BOCA RATON, FL 33487-2789 US	DEMIN NOX DISCHARGE FILTERS	E	B	5	F	N	2	*	12,473	12,473	12,473	0	7/24/2018	C		9/27/2018
4500299671	CLYDE UNION INC 4600 W DICKMAN RD BATTLE CREEK, MI 49037-7325 US	CONDENSATE PUMP	E	B	8	F	N	1		91,759	0	0	91,759	7/25/2018	O	4/30/2019	
4500299794	AMETEK POWER INSTRUMENTS 255 N UNION ST ROCHESTER, NY 14605-2644 US	JEMSTAR METER JS 09R6020-B3	E	B	5	N	N	2	*	12,900	12,900	12,900	0	7/27/2018	C		8/17/2018

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4500299918	JOHN DINEEN CONTRACTING DBA FOR JOHN DINEEN 19 BANNER 3RD RD BROOKLYN, NY 11235-6763 US	ROOF REPAIR	S	B		N	N	1		500,000	41,475	41,475	458,525	7/16/2018	O	7/15/2019	
4500299932	ATLANTIC COOLING TECHNOLOGIES & SERVICES LLC 80 KERO RD CARLSTADT, NJ 07072-2604 US	COOLING TOWER SERVICE	S	B		F	N	1		500,000	17,660	17,660	482,340	7/20/2018	O	7/19/2019	
4500299967	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	MISCELLANEOUS FLOWSERVE PARTS	E	B	8	F	N	1		239,120	174,552	174,552	64,568	8/2/2018	O	2/28/2019	
4500299993	ICL-IP AMERICA INC 622 EMERSON RD CREVE COEUR, MO 63141-6742 US	FYRQUEL 220	E	B	5	F	N	2		7,458	7,445	7,445	13	8/3/2018	C		10/10/2018
4500300008	THE WEEKS-LERMAN GROUP LLC 5838 PAGE PLACE MASPETH, NY 11378 US	OFFICE EQUIPMENT	E	B	5	N	N	1		24,439	24,439	24,439	0	8/3/2018	C		11/5/2018
4500300022	IRIS POWER LP 3110 AMERICAN DR MISSISSAUGA, ON L4V 1T2 CA	FLUX AND END TURN DATA COLLECTION AND ANALYSIS	S	2	5	F	N	1		30,000	18,616	18,616	11,384	8/3/2018	O	2/28/2019	
4500300026	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	6" SEAT RETAINER	E	B	5	F	N	1	*	8,457	8,457	8,457	0	8/6/2018	C		10/5/2018
4500300075	TIERNEY & COURTNEY INC 5842 MASPETH AVE MASPETH, NY 11378-2794 US	REPLACE WAREHOUSE BAY DOOR	S	B	5	N	N	3		9,975	0	0	9,975	8/6/2018	O	2/28/2019	
4500300153	SUR-SEAL INC 12 EDGEBORO RD - UNIT 6 EAST BRUNSWICK, NJ 08816-1651 US	SSOV AND SSOVV MATERIAL	E	B	5	F	N	2	*	17,006	17,006	17,006	0	8/8/2018	C		11/6/2018
4500300218	GRADE A PETROLEUM CORP 90 EAST HAWTHORNE AVE VALLEY STREAM, NY 11582-1238 US	OIL, EASTMAN TURBO	E	B	5	N	N	1	*	21,921	21,921	21,921	0	8/9/2018	C		8/24/2018
4500300220	RK CHASE CO INC 966 BROADWAY ALBANY, NY 12204-2504 US	EXHAUST FRAME BLOWERS FOR 500MW	E	B	5	N	N	1		11,810	0	0	11,810	8/9/2018	O	2/28/2019	
4500300258	EDGE ELECTRONICS INC 75 ORVILL DR - STE 2 BOHEMIA, NY 11716-2528 US	MOTOR, ELECTRIC, AC	E	B	7	N	03	1		5,540	5,540	5,540	0	8/13/2018	C		10/11/2018
4500300266	AERODERIVATIVE GAS TURBINE SUPPORT INC 1141 S ROGERS CIR - STE 11 BOCA RATON, FL 33487-2789 US	CABLES, BEARING, NUTS	E	B	5	F	N	1	*	18,324	18,324	18,324	0	8/13/2018	C		8/17/2018
4500300302	ALPHA ELEVATOR INC SUITE 307 61-43 186 STREET FRESH MEADOWS, NY 11365 US	ELEVATOR MAINTENANCE SERVICES FOR POLETTI AND 500MW	S	B	5	N	N	3		50,000	2,470	2,470	47,530	8/13/2018	O	8/12/2019	
4500300400	RELEVANT SOLUTIONS LLC 1423 E RICHEY RD HOUSTON, TX 77073-3508 US	FILTER, WATER DUPLEX, SPRINT SYSTEM	E	B	5	F	N	3	*	14,048	14,048	14,048	0	8/15/2018	C		8/25/2018
4500300569	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	DIAMOND CLASS TURBINE OIL 32 FOR FALL OUTAGE	E	B	5	N	01	2		14,780	14,632	14,632	148	8/21/2018	C		9/14/2018

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4500300736	MITSUBISHI HITACHI POWER SYSTEMS AMERICAS INC-ORLANDO SERVICE CENTER 2287 PREMIER ROW ORLANDO, FL 32809-6211 US	ROD VALVE STEM	E	C	5	F	N	1		8,881	8,881	8,881	0	8/24/2018	C		10/26/2018
4500300784	SUEZ WTS USA INC 4636 SOMERTON RD TREVOSE, PA 19053 US	CHEMICAL FOR WATER TREATMENT	E	B	5	F	N	1		18,559	18,559	18,559	0	8/28/2018	C		12/7/2018
4500300812	EDGE ELECTRONICS INC 75 ORVILL DR - STE 2 BOHEMIA, NY 11716-2528 US	MOTOR 3 PHASE 365TSC	E	B	7	N	03	1		11,079	11,079	11,079	0	8/28/2018	C		9/10/2018
4500300852	VALVE INDUSTRIES INC 4 SLATE CT - APT D-2 WOODLAND PARK, NJ 07424-4247 US	ACTUATOR, LIMITORQUE	E	B	5	N	N	1	*	7,010	7,010	7,010	0	8/29/2018	C		11/21/2018
4500300960	PIPING TECHNOLOGY & PRODUCTS INC 3701 HOLMES RD HOUSTON, TX 77051-1545 US	HANGER, CONSTANTS FOR 7AHP252	E	B	5	F	N	1		12,848	12,848	12,848	0	8/31/2018	C		11/7/2018
4500300968	YORK LADDER INC 3720 12TH ST LONG ISLAND CITY, NY 11101-6098 US	SCAFFOLDING MATERIAL	E	B	5	N	N	2	*	24,700	24,700	24,700	0	9/4/2018	C		10/15/2018
4500300978	CLIPPERCREEK INC 11850 KEMPER RD STE E AUBURN, CA 95603-9013 US	ELECTRIC CAR CHARGER MISCELLANEOUS PARTS	E	B	5	F	N	2	*	11,642	11,642	11,642	0	9/4/2018	C		9/25/2018
4500301016	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	PALL FILTERS	E	B	5	N	01	1		8,495	8,410	8,410	85	9/4/2018	C		10/2/2018
4500301072	CUTSFORTH INC 37837 ROCK HAVEN RD COHASSET, MN 55721-8912 US	STRAP GROUNDING	E	B	5	F	N	2	*	32,587	32,587	32,587	0	9/5/2018	C		10/17/2018
4500301176	SOUTH ATLANTIC MARINE SERVICES INC 342 COLD SPRING RD SYOSSET, NY 11791 US	OIL, EASTMAN TURBO	E	B	5	N	03	3		22,128	22,128	22,128	0	9/7/2018	C		10/18/2018
4500301177	GRADE A PETROLEUM CORP 90 EAST HAWTHORNE AVE VALLEY STREAM, NY 11582-1238 US	LUBRICANT OIL	E	B	5	N	N	3	*	14,089	14,089	14,089	0	9/7/2018	C		9/26/2018
4500301269	BAKER BOHNERT LLC 1311 BERNHEIM LN LOUISVILLE, KY 40210-2205 US	EXPANSION JOINTS	E	B	5	F	N	1	*	14,986	14,986	14,986	0	9/11/2018	C		12/4/2018
4500301313	CONTROL ASSOCIATES INC 20 COMMERCE DR - PO BOX 279 ALLENDALE, NJ 07401-1600 US	PURGE VALVE ACTUATORS	E	B	5	F	N	1		18,073	11,610	11,610	6,463	9/12/2018	O	2/28/2019	
4500301490	WALTER T GORMAN PE PC 99 TULIP AVE - STE 106 FLORAL PARK, NY 11001-1927 US	CODE COMPLIANCE PERMITTING	S	B		N	N	2		500,000	0	0	500,000	9/18/2018	O	9/17/2019	
4500301495	BOLTTECH MANNINGS INC 321 RICHARD MINE RD - STE 300 WHARTON, NJ 07885-1838 US	BOLTING AND HEAT INDUCTION SERVICES	S	B		F	N	1		500,000	0	0	500,000	9/18/2018	O	9/17/2019	
4500301589	CONTROL ASSOCIATES INC 20 COMMERCE DR - PO BOX 279 ALLENDALE, NJ 07401-1600 US	Z500 VALVES	E	B	5	F	N	1	*	15,852	15,852	15,852	0	9/20/2018	C		12/19/2018

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4500301604	AERODERIVATIVE GAS TURBINE SUPPORT INC 1141 S ROGERS CIR - STE 11 BOCA RATON, FL 33487-2789 US	FUEL	E	B	5	F	N	2	*	20,021	20,021	20,021	0	9/20/2018	C		9/26/2018
4500301626	INFOSIGHT CORPORATION PO BOX 5000 CHILLICOTHE, OH 45601-7000 US	INFOSIGHT PRINTER WITH TAGS	H	B	5	F	N	1		31,300	28,403	28,403	2,897	9/21/2018	O	2/28/2019	
4500301639	CHAMPION PAINTING SPECIALTY SERVICES CO 130 SW 22ND ST FORT LAUDERDALE, FL 33315-2531 US	DEMIN TANK INTERIOR COATING	E	B	8	F	04	2		325,000	325,000	325,000	0	9/21/2018	C		11/28/2018
4500301694	NASSAU NATIONAL CABLE CORP 505 NORTHERN BLVD - STE 209 GREAT NECK, NY 11021-5112 US	TRAY CABLES	E	B	5	N	N	3	*	13,596	13,596	13,596	0	9/24/2018	C		11/15/2018
4500301712	TURBINE TRENDS LLC PO BOX 26 SPOTSWOOD, NJ 08884-0026 US	BOLT SETS	E	B	5	F	N	2	*	5,245	5,245	5,245	0	9/25/2018	C		10/26/2018
4500301791	AERODERIVATIVE GAS TURBINE SUPPORT INC 1141 S ROGERS CIR - STE 11 BOCA RATON, FL 33487-2789 US	SWITCH FLOW FAN	E	B	5	F	N	2	*	6,322	6,322	6,322	0	9/26/2018	C		10/5/2018
4500301875	TURBINE TECHNICS INC 1200 S ROGERS CIR - STE 10 BOCA RATON, FL 33487-5703 US	MARK VI, VME	E	B	5	F	N	3	*	8,014	8,014	8,014	0	9/28/2018	C		11/6/2018
4500301890	KELLY & HAYES ELECTRICAL SUPPLY OF L I INC 66 SOUTHERN BLVD NESCONSET, NY 11767-1092 US	HEAT TRACING CABLE	E	B	5	N	N	1		15,930	15,930	15,930	0	9/29/2018	C		10/8/2018
4500301971	PASCOR ATLANTIC CORP 254 INDUSTRY DR BLAND, VA 24315 US	WORM GEAR ASSEMBLY	E	B	5	F	N	1	*	7,857	7,857	7,857	0	10/2/2018	C		12/9/2018
4500302018	YATES AND CO INC 1 HOLLYWOOD AVE - STE 22 HO HO KUS, NJ 07423-1448 US	McCROMETER, BIDIRECTIONAL	E	B	5	F	N	2	*	12,626	12,626	12,626	0	10/3/2018	C		12/12/2018
4500302019	GAS TURBINE CONTROLS CORP 6 SKYLINE DR - STE 150 HAWTHORNE, NY 10532-8102 US	VME MARK IV CARDS	E	B	5	N	N	3	*	12,681	12,681	12,681	0	10/3/2018	C		10/12/2018
4500302085	EL ELECTRONICS LLC 1800 SHAMES DR WESTBURY, NY 11590-1730 US	METER SHARK 200	E	B	5	N	N	2	*	6,174	6,174	6,174	0	10/5/2018	C		10/12/2018
4500302120	RESA POWER LLC 40 OLIVER TERR - PO BOX 619 SHELTON, CT 06484-0343 US	LOCKOUT RELAY BS80	E	B	5	F	N	1		7,000	7,000	7,000	0	10/8/2018	C		12/24/2018
4500302168	VIBROSYSTM INC 2727 E JACQUES - CARTIER BLVD MONTREAL, PQ J4N 1L7 CA	PROBE	E	B	5	F	N	1		7,427	7,427	7,427	0	10/9/2018	C		11/7/2018
4500302172	WORLD WIDE GAS TURBINE PRODUCTS INC 300 COMMERCE DR CLIFTON PARK, NY 12065-1317 US	MOTOR, 75HP, 60HZ	E	B	5	N	01	1	*	5,910	5,910	5,910	0	10/9/2018	C		11/7/2018
4500302269	GRADE A PETROLEUM CORP 90 EAST HAWTHORNE AVE VALLEY STREAM, NY 11582-1238 US	OIL, EASTMAN TURBO AND MOBILE DELVAC	E	B	5	N	N	1	*	12,338	12,338	12,338	0	10/11/2018	C		10/18/2018

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4500302395	SOURCE IT TECHNOLOGIES LLC KARA HOMAN 24 EAST AVE - STE 244 NEW CANAAN, CT 06840-5529 US	HITACHI EQUIPMENT AND SERVICES	H	B	7	F	03	3		218,744	200,068	200,068	18,676	10/16/2018	C		12/12/2018
4500302482	WORLD WIDE GAS TURBINE PRODUCTS INC 300 COMMERCE DR CLIFTON PARK, NY 12065-1317 US	STEAM TURBINE PARTS	E	B	5	N	01	3	*	18,432	18,432	18,432	0	10/18/2018	C		12/12/2018
4500302575	KELLY & HAYES ELECTRICAL SUPPLY OF L I INC 66 SOUTHERN BLVD NESCONSET, NY 11767-1092 US	CHROMOLAX HEATERS AND FUSES	E	B	5	N	N	1		6,673	6,673	6,673	0	10/22/2018	C		12/5/2018
4500302703	AMETEK POWER INSTRUMENTS 255 N UNION ST ROCHESTER, NY 14605-2644 US	JEMSTAR METER	E	B	5	N	N	3	*	8,143	8,143	8,143	0	10/25/2018	C		11/19/2018
4500302706	AERODERIVATIVE GAS TURBINE SUPPORT INC 1141 S ROGERS CIR - STE 11 BOCA RATON, FL 33487-2789 US	HARNESS, PLUG, GASKETS	E	B	5	F	N	3	*	18,190	18,190	18,190	0	10/25/2018	C		10/31/2018
4500302773	AVIATION POWER & MARINE LLC 1811 CORPORATE DR BOYNTON BEACH, FL 33426-9086 US	NEXT GENERATION LCI ATTE	E	B	5	F	N	1	*	15,589	15,589	15,589	0	10/29/2018	C		12/17/2018
4500302829	FLOWSERVE PUMP CORP PO BOX 3565 SCRANTON, PA 18505-3565 US	FLOWSERVE "A" CIRCULATING PUMP OVERHAUL	S	2	8	F	N	1		58,528	0	0	58,528	10/30/2018	O	2/28/2019	
4500302847	ICL-IP AMERICA INC 622 EMERSON RD CREVE COEUR, MO 63141-6742 US	FYRQUEL	E	B	5	F	N	1		22,707	22,707	22,707	0	10/30/2018	C		11/5/2018
4500302922	SECURITY INTEGRATIONS INC DIV OF SI TECHNOLOGIES INC 160 DWIGHT PARK CIRCLE SYRACUSE, NY 13209 US	SECURITY ITEMS	E	B	7	N	N	1		13,028	0	0	13,028	11/1/2018	O	2/28/2019	
4500303030	GP STRATEGIES CORP 11000 BROKEN LAND PKWY STE 200 COLUMBIA, MD 21044-3555 US	ACCOMPLISH N2 LEAKAGE TEST AND PROVIDE REPORT	S	2	5	N	N	1		11,900	0	0	11,900	11/5/2018	O	2/28/2019	
4500303059	KINEQUIP INC 7340 THOMPSON RD N N SYRACUSE, NY 13212 US	SOLENOID VALVES 24VDC	E	B	5	N	N	2		6,142	0	0	6,142	11/5/2018	O	3/1/2019	
4500303079	PRO-QUIP INC 4 MARK RD - STE C KENILWORTH, NJ 07033-1025 US	DIGITAL POSITIONER	E	B	5	F	N	2	*	10,130	10,130	10,130	0	11/5/2018	C		11/19/2018
4500303167	KELLY & HAYES ELECTRICAL SUPPLY OF L I INC 66 SOUTHERN BLVD NESCONSET, NY 11767-1092 US	FLEX CONNECTORS	E	B	5	F	N	2		7,640	7,640	7,640	0	11/7/2018	C		11/30/2018
4500303202	SUR-SEAL INC 12 EDGEBORO RD - UNIT 6 EAST BRUNSWICK, NJ 08816-1651 US	INGERSOLL RAND PARTS	E	B	5	F	N	1		21,017	0	0	21,017	11/8/2018	O	2/28/2019	
4500303393	VIBROSYSTM INC 2727 E JACQUES - CARTIER BLVD MONTREAL, PQ J4N 1L7 CA	SENSOR VIBRATION, FIBER OPTIC	E	B	5	F	N	1		19,581	19,581	19,581	0	11/15/2018	O	2/28/2019	

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4500303491	SUEZ WTS USA INC 4636 SOMERTON RD TREVOSE, PA 19053 US	CHEMICAL WATER TREATMENT TOTE	E	B	5	N	N	1		8,014	0	0	8,014	11/20/2018	O	2/28/2019	
4500303518	FRANK D RIGGIO CO INC DBA RIGGIO VALVE 797 AVENUE E BAYONNE, NJ 07002 US	DEVLON SEAT VALVE	E	B	5	F	N	1		11,035	11,035	11,035	0	11/20/2018	C		12/4/2018
4500303532	ATLANTIC EQUIPMENT RESOURCES LLC 70 KINDERKAMACK RD STE 200 EMERSON, NJ 07630-1812 US	SUNDYNE PUMP, O-RINGS, BEARING	E	B	5	F	N	1	*	43,987	43,987	43,987	0	11/21/2018	O	2/28/2019	
4500303817	ADVANCED FILTRATION CO PO BOX 324 HOWELL, NJ 07731-0324 US	FILTERS	E	B	5	F	N	1		10,361	667	667	9,694	12/3/2018	O	2/28/2019	
4500303818	AERODERIVATIVE GAS TURBINE SUPPORT INC 1141 S ROGERS CIR - STE 11 BOCA RATON, FL 33487-2789 US	TURBINE HEATERS	E	B	5	F	N	3	*	6,293	6,293	6,293	0	12/3/2018	C		12/10/2018
4500303903	CONTROL ASSOCIATES INC 20 COMMERCE DR - PO BOX 279 ALLENDALE, NJ 07401-1600 US	YARWAY VALVES	E	B	5	F	N	2		14,000	0	0	14,000	12/5/2018	O	6/9/2019	
4500303964	D & L INSTALLATIONS INC 230 KNICKERBOCKER AVE BOHEMIA, NY 11716-3140 US	CD300+ DESICCANT DRYER	E	B	5	N	03	2		11,461	0	0	11,461	12/6/2018	O	2/28/2019	
4500304009	EL ELECTRONICS LLC 1800 SHAMES DR WESTBURY, NY 11590-1730 US	NEXUS METERS	E	B	5	N	N	1	*	16,788	16,788	16,788	0	12/7/2018	C		12/26/2018
4500304014	EL ELECTRONICS LLC 1800 SHAMES DR WESTBURY, NY 11590-1730 US	SHARK METERS WITH WIFI	E	B	5	N	N	4	*	25,520	25,520	25,520	0	12/7/2018	O	2/28/2019	
4500304341	SUEZ WTS USA INC 4636 SOMERTON RD TREVOSE, PA 19053 US	WATER TREATMENT CHEMICALS	E	B	5	F	N	1		14,538	0	0	14,538	12/18/2018	O	2/28/2019	
4500304404	BALTIMORE AIRCOIL CO 560 WHITE PLAINS RD TARRYTOWN, NY 10591 US	MISCELLANEOUS PARTS COOLING TOWER PARTS	E	B	5	N	N	2		16,115	0	0	16,115	12/19/2018	O	2/28/2019	
4500304451	RESA POWER LLC 40 OLIVER TERR - PO BOX 619 SHELTON, CT 06484-0343 US	RESA BREAKER	E	B	5	N	N	1		24,950	0	0	24,950	12/20/2018	O	3/30/2019	
4500304469	F & F INDUSTRIAL EQUIPMENT CORP 195 TOWER DR MIDDLETOWN, NY 10941-2034 US	FIRE PUMP RELIEF VALVE	E	B	5	N	01	1		5,219	0	0	5,219	12/20/2018	O	5/1/2019	
4500304506	US RUBBER SUPPLY CO 238 N 9TH ST BROOKLYN, NY 11211 US	DISCHARGE HOSE	E	B	5	N	N	1		19,266	0	0	19,266	12/21/2018	O	2/28/2019	
4500304509	CARRIER CORP 175 CENTRAL AVE - STE 300 FARMINGDALE, NY 11735-6917 US	HVAC MAINTENANCE	E	B	5	F	N	1		24,400	0	0	24,400	12/21/2018	O	2/28/2019	
4500304554	KELLY & HAYES ELECTRICAL SUPPLY OF L I INC 66 SOUTHERN BLVD NESCONSET, NY 11767-1092 US	HEATERS	E	B	5	N	N	2		13,660	0	0	13,660	12/27/2018	O	1/21/2019	
4500304595	THYSSENKRUPP ELEVATOR CORP 59 OTIS ST WEST BABYLON, NY 11704-1415 US	ELEVATOR UPGRADE	E	B	7	N	N	3		92,000	46,000	46,000	46,000	12/28/2018	O	5/31/2019	

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4500304633	JOHN IACONO INC IACONO INC 230 KNICKERBOCKER AVE BOHEMIA, NY 11716-3140 US	MOTOR, STATION AIR, 440V	E	B	5	N	N	1		25,845	0	0	25,845	12/31/2018	O	2/4/2019	
4600002578	LONGO ELECTRICAL MECHANICAL INC 1 HARRY SHUPE BLVD WHARTON, NJ 07885-1646 US	MOTOR REPAIR AT THE 500MW COMBINED CYCLE PLANT, FLYNN, AND SCPP	S	B		N	N	4		3,000,000	1,311,773	8,878	1,688,227	10/1/2012	C		3/31/2018
4600002727	QUINTAL CONTRACTING CORP PO BOX 427 ISLIP, NY 11751-0427 US	ALGAE SCRAPE SERVICES	S	B		N	01	2		200,000	197,106	29,008	2,894	10/1/2013	C		9/30/2018
4600002740	GENERAL ELECTRIC INTERNATIONAL INC 6001 TONNELLE AVE NORTH BERGEN, NJ 07047-3307 US	GE TECHNICAL SUPPORT	S	B		F	N	2		2,490,000	2,243,313	45,185	246,687	1/1/2014	C		12/31/2018
4600002855	SIRIO SISTEMI ELETTRONICI SPA VIA DEL LAZZERETTO 92 PRATO, PO 59100 IT	INSTRUMENT AND CONTROLS SUPPORT FOR THE NUOVO PIGNONE GAS COMPRESSOR CONTROLS	S	B		N	N	2		400,000	24,538	0	375,462	10/20/2014	O	10/19/2019	
4600003007	GOTHAM REFINING CHEMICAL CORP 2374 48TH ST ASTORIA, NY 11103-1014 US	SCPP COOLING TOWER CHEMICAL	E	B		N	N	2		500,000	454,529	10,020	45,471	7/9/2015	O	7/8/2020	
4600003021	GTS CORP 1 STEEL RD E MORRISVILLE, PA 19067-3613 US	CALIBRATED GASES FOR SENY	E	B		F	N	4		400,000	101,628	695	298,372	9/24/2015	C		12/31/2018
4600003022	JANSEN'S AIRCRAFT SYSTEM CONTROLS INC 2303 WEST ALAMEDA DR TEMPE, AZ 85282 US	3 WAY FUEL VALVES FOR 500MW	E	B		F	N	2		500,000	84,276	0	415,724	7/27/2015	O	7/26/2020	
4600003074	CINTAS CORP 12 HARBOR PARK DR PORT WASHINGTON, NY 11050-4649 US	UNIFORM CLEANING/RENTAL AGREEMENT	E	B		N	N	2		300,000	162,960	89,118	137,040	1/1/2016	O	3/31/2019	
4600003101	NUOVO PARTS INC 1465 SLATER RD FERNDALE, WA 98248-8919 US	GAS COMPRESSOR PARTS	E	B		F	N	2		900,000	446,691	11,911	453,309	1/20/2016	O	1/19/2021	
4600003105	ALTAIR FILTER TECHNOLOGY INC DBA CLARCOR INDUSTRIAL AIR 11501 OUTLOOK ST - STE 100 OVERLAND PARK, KS 66211-1810 US	INLET AIR FILTERS FOR 500MW AND LM 6000 ENGINES	E	B		F	N	2		937,500	898,773	485784	38,727	2/1/2016	O	1/31/2019	
4600003184	JOHN CRANE INC 6400 OAKTON ST MORTON GROVE, IL 60053-2725 US	500MW SEALS FOR GAS COMPRESSORS	E	B		F	N	1		625,000	540,000	270,000	85,000	7/14/2016	O	7/13/2019	
4600003187	GENERAL ELECTRIC INTERNATIONAL INC 475 CREAMERY WAY EXTON, PA 19341-2546 US	500MW EQUIPMENT SERVICE AND MAINTENANCE	P	B		F	N	2		7,500,000	1,816,728	1,405,312	5,683,272	8/18/2016	O	8/17/2021	
4600003188	AIRGAS USA LLC DBA FOR AIRGAS INC 259 N RADNOR CHESTER RD RADNOR, PA 19087-5240 US	3 YEAR FOR HYDROGEN AND NITROGEN BANKS AND CYLINDERS	E	B		F	N	1		150,000	46,258	11,795	103,742	8/2/2016	O	8/2/2019	
4600003265	TANNER INDUSTRIES INC 735 DAVISVILLE RD - 3RD FL SOUTHAMPTON, PA 18966-3200 US	AQUEOUS AMMONIA FOR THE SENY POWER PROJECTS	E	B		F	N	2		2,250,000	332,314	176,185	1,917,686	1/1/2017	O	12/31/2021	

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4600003276	SENTRY EQUIPMENT CORP 966 BLUE RIBBON CIR N OCONOMOWOC, WI 53066-8666 US	500MW CHEMISTRY ANALYZER PANEL MONTHLY MAINTENANCE AND SERVICE	S	B		F	N	1		450,000	88,173	69546	361,827	2/17/2017	O	2/26/2022	
4600003283	HUDSON TECHNOLOGIES CO 29 HOLT DR STONY POINT, NY 10980-1919 US	PROVIDE REFRIGERANT RECOVERY AND EVACUATION SERVICES FOR THE 500MW POWER PROJECT	S	B		N	N	1		250,000	93,619	0	156,381	3/17/2017	C		3/16/2018
4600003331	PRAXAIR DISTRIBUTION INC 39 OLD RIDGEBURY RD DANBURY, CT 06810-5108 US	CALIBRATED GASES FOR SENY	E	B		F	N	4		291,440	57,835	46,800	233,605	7/27/2017	O	9/23/2020	
4600003371	FRANK D RIGGIO CO INC DBA RIGGIO VALVE 797 AVENUE E BAYONNE, NJ 07002 US	VALVE REPAIR SERVICES	S	B		F	N	1		5,000,000	342,752	311,732	4,657,248	9/1/2017	O	8/31/2022	
4600003418	TRIATHLON INDUSTRIES INC DBA TRIDON CHEMICAL 87 N INDUSTRY CT - STE G DEER PARK, NY 11729-4607 US	FLYNN CHEMICALS	E	B		N	03	2		350,000	51,341	51,341	298,659	1/1/2018	O	12/31/2022	
4600003466	LONGO ELECTRICAL MECHANICAL INC 1 HARRY SHUPE BLVD WHARTON, NJ 07885-1646 US	SENY: MOTOR AND MAINTENANCE SERVICES	S	B		N	N	1		4,000,000	0	0	4,000,000	5/1/2018	O	4/30/2023	
4600003479	GOTHAM REFINING CHEMICAL CORP 2374 48TH ST ASTORIA, NY 11103-1014 US	SCPP COOLING TOWER CHEMICAL, 5 YEAR	E	B		N	N	1		750,000	190,197	190,197	559,803	5/21/2018	O	5/21/2023	
4600003482	U ARIAS CORP 1855 IMPERIAL AVE NEW HYDE PARK, NY 11040-4008 US	LANDSCAPING, 5 YEAR	S	B		N	04	1		200,000	63,290	63,290	136,710	5/21/2018	O	5/20/2019	
		SENY TOTALS								52,777,561	21,238,041	13,767,606	31,539,520				

POWER AUTHORITY OF THE STATE OF NEW YORK
2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS
REQUIRED BY N.Y. PUBLIC AUTHORITIES LAW, SECTION 2879

Total Number of Contracts	298	
Total Contract Value		$52,777,561
Total Expended to Date		$21,238,041
Total Expended in Report Year		$13,767,606
Status Summary	Count	Contract Value
Open Contracts	69	$38,394,935
Closed Contracts	229	$14,382,626
Method of Award Summary		
Competitive Bid	259	$40,578,347
Sole Source	6	$1,064,627
Single Source	25	$2,000,364
Competitive Search	6	$8,800,128
MWBE/SBE	2	$334,095
Commitment Type Summary		
Architectural and Engineering Services	0	$0
Construction	0	$0
Equipment / Goods / Commodities	225	$21,043,405
IT Hardware	2	$250,044
IT Software	0	$0
Legal Services	0	$0
Maintenance and Outage Services	0	$0
Personal Services	3	$7,538,500
IT Consulting and Development	0	$0
Other Non-Personal Services	68	$23,945,612
Contingent Workforce	0	$0

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4500260759	WILLIAMS SCOTSMAN INC PO BOX 50 PHOENIX, NY 13135 US	RENTAL OF MOBILE OFFICE	E	B	5	N	N	1		25,438	17,599	3,887	7,839	7/1/2015	O	5/30/2020	
4500260904	EI TEAM INC 2060 SHERIDAN DR BUFFALO, NY 14223-1470 US	ARCHITECTURAL/ENGINEERING SERVICES FOR STL NEW SECURITY AND WAREHOUSE FACILITY	A	B		N	04	10		982,848	713,900	103,088	268,948	7/7/2015	C		7/6/2018
4500261111	BERNIER CARR & ASSOCIATES ENGINEERS ARCHITECTS AND LAND SURVEYORS PC 327 MULLIN ST WATERTOWN, NY 13601-3686 US	ARCHITECT AND ENGINEERING SERVICES - ROBERT MOSES STATE PARK FACILITIES BUILDING	A	B		N	N	8		499,915	361,196	22,187	138,719	7/14/2015	O	6/30/2020	
4500274772	WILLIAMS SCOTSMAN INC PO BOX 50 PHOENIX, NY 13135 US	JERICHO WIND FARM JOB TRAILER	E	B	5	N	N	2		17,599	15,664	2,211	1,935	7/15/2016	C		1/18/2018
4500274855	S & L ELECTRIC INC 5313 STATE HIGHWAY 56 COLTON, NY 13625 US	STL - STATION SERVICE UPGRADE AND LS DAM 480 VAC MCC REPLACEMENT	E	B		N	N	5		6,332,618	5,130,171	1,616,507	1,202,447	7/19/2016	O	7/18/2019	
4500280731	RIVERS SEPTIC TANK SERVICE 3161 CR21 CANTON, NY 13617 US	SEPTIC/HOLDING TANK YEARLY CONTRACT	S	B	5	N	N	2		24,000	23,242	353	758	1/12/2017	C		1/11/2018
4500281542	FRONTENAC CRYSTAL SPRINGS WATER INC PO BOX 328 CLAYTON, NY 13624-0372 US	BOTTLED WATER / DISPENSER COOLER RENTAL	E	B	5	N	N	2		11,345	9,453	1,384	1,892	1/26/2017	C		1/25/2018
4500282693	RED WING BRANDS OF AMERICA INC DBA RED WING SHOE STORE 6354 TRANSIT RD DEPEW, NY 14043-1072 US	SAFETY SHOES	E	B	5	F	N	3		19,000	18,427	601	573	2/27/2017	C		7/4/2018
4500282694	DIVAL SAFETY EQUIPMENT INC 1721 NIAGARA ST BUFFALO, NY 14207-3108 US	SAFETY SHOES	E	B	5	F	N	3		20,000	18,696	1,563	1,304	2/27/2017	C		7/4/2018
4500282700	GRAINGER DBA FOR W W GRAINGER INC 505 SAWMILL RIVER RD ELMSFORD, NY 10523-1009 US	SAFETY SHOES	E	B	5	F	N	3		10,000	2,772	0	7,228	2/27/2017	C		7/4/2018
4500283784	SCHINDLER ELEVATOR CORP 20 WHIPPANY RD MORRISTOWN, NJ 07960-4524 US	ELEVATOR INSPECTIONS	S	B	5	F	N	3		31,400	28,850	20,850	2,550	3/28/2017	C		2/22/2018
4500284144	KORRECT OPTICAL 3801 BISHOP LN LOUISVILLE, KY 40218-2905 US	PRESCRIPTION SAFETY EYEWEAR	E	B	5	F	N	3		14,000	8,778	2,881	5,222	12/8/2017	C		4/6/2018
4500284515	BC CLEANING DBA FOR BOGASIAN CARPET CO INC 70 WILLOW ST MASSENA, NY 13662-1576 US	RUG/MAT RENTAL	E	B	5	N	01	1		16,000	15,187	11,333	813	5/5/2017	C		5/4/2018
4500284842	MILLER ENERGY INC DBA FOR H M MILLER SALES CO 3200 S CLINTON AVE SOUTH PLAINFIELD, NJ 07080-1424 US	ECLIPSE LEVEL AND PRECISION METER	E	B	5	F	N	1		9,864	6,404	6,404	3,460	11/3/2017	C		4/17/2018
4500286879	PREFORMED LINE PRODUCTS 660 BETA DR MAYFIELD VILLAGE, OH 44143-2398 US	TEST HOLLOW CORE COPPER CONDUCTOR ASSEMBLIES	S	B	5	F	N	2		49,962	49,962	25,330	0	6/23/2017	C		5/28/2018

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4500287812	JOHNSON CONTROLS INC 130 JOHN MUIR DR - STE 100 AMHERST, NY 14228-1139 US	MAINTENANCE - P2000	S	B	7	N	N	1		27,659	27,659	0	0	10/1/2017	C		9/30/2018
4500287846	PIERCE STEEL FABRICATORS INC 430 N 7TH ST OLEAN, NY 14760-2330 US	GUSSET, ROTOR	E	B	5	N	N	1		11,315	11,315	671	0	7/25/2017	C		2/15/2018
4500288631	BARRETT PAVING MATERIALS INC 7971 STATE HIGHWAY 56 NORWOOD, NY 13668-3252 US	STONE, CRUSHED	E	B	7	N	N	1		5,818	5,815	0	3	8/16/2017	C		9/29/2018
4500288769	J C MERRIMAN INC PO BOX 270 NORWOOD, NY 13668 US	TILE,FLOOR	E	B	5	F	N	3		19,088	17,791	0	1,297	10/25/2017	C		10/24/2018
4500288790	MORRISONVILLE SEPTIC LLC DONALD RABIDEAU JR 123 RABIDEAU ST CADYVILLE, NY 12918-2709 US	SEPTIC, PUMPING	S	1	5	F	01	1		9,100	8,400	5,595	700	8/21/2017	C		8/20/2018
4500289477	THYSSEN ELEVATOR CO 6067 CORPORATE DR EAST SYRACUSE, NY 13057-1082 US	ELEVATOR, DRIVE	E	B	7	N	N	1		38,042	34,262	3,693	3,780	11/3/2017	C		11/2/2018
4500289503	S & L ELECTRIC INC 5313 STATE HIGHWAY 56 COLTON, NY 13625 US	EMERGENCY GENERATOR	E	1	8	N	N	1		108,799	103,359	103,359	5,440	9/18/2017	C		11/30/2018
4500289799	LIFE SCIENCE LABORATORIES INC 5854 BUTTERNUT DR EAST SYRACUSE, NY 13057-9513 US	SAMPLING, ENVIRONMENTAL, SPDES	S	B	5	N	01	2		20,000	19,897	17,339	103	10/3/2017	C		10/2/2018
4500289872	KELLY SALES CORP 3503 CTY ROUTE 14 MADRID, NY 13660-3105 US	OVERHEAD DOOR REPLACEMENT	E	B		N	01	1		262,753	262,753	92,383	0	9/21/2017	C		6/10/2018
4500290021	HASGO POWER EQUIPMENT SALES INC 151 E MAIN RD - PO BOX 400 LE ROY, NY 14482-1237 US	HUGHES BROS. X-BRACES	E	B	5	F	N	4	*	7,976	7,976	7,976	0	9/27/2017	C		2/12/2018
4500290591	ORKIN PEST CONTROL DBA FOR ROLLINS INC 537 QUEENSBURY AVE QUEENSBURY, NY 12804-7613 US	PEST CONTROL SERVICES	S	B	5	F	N	2		12,300	10,654	8,616	1,646	11/7/2017	C		10/15/2018
4500290614	AMERICAN ROCK SALT CO LLC DBA FOR AMERICAN ROCK SALT HOLDING PO BOX 190 MOUNT MORRIS, NY 14510-0190 US	SALT, ROAD	E	B	7	F	N	1		76,125	75,231	33,183	894	10/13/2017	C		3/31/2018
4500290969	BUB'S ENTERPRISES LLC DALE EARL 3893 STATE ROUTE 11 MALONE, NY 12953-3725 US	SNOW REMOVAL SERVICES	S	M	5	N	01	1		14,500	13,200	13,200	1,300	11/7/2017	C		5/31/2018
4500290977	TMT CONTRACTORS INC 1484 US HIGHWAY 11 GOUVERNEUR, NY 13642-3407 US	SNOW REMOVAL SERVICES	S	M	5	N	01	1		20,000	19,380	18,240	620	11/30/2017	C		5/31/2018
4500291194	WELLS TECHNOLOGY INC 4885 WINDSOR CT NW BEMIDJI, MN 56601-7659 US	OCT VENDING	E	B	7	F	04	1		7,570	7,570	0	0	11/7/2017	C		11/6/2018
4500291375	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	IT MATERIALS	E	B	5	F	04	2		25,109	21,476	0	3,633	12/8/2017	C		12/7/2018

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4500291377	STRATEGIC RESPONSE INITIATIVES LLC 44 DALLIBA AVE STE 204 WATERVLIET, NY 12189-4017 US	TURBINE SHAFT GUARDING (16 UNITS)	E	C	8	F	02	1		760,424	760,424	760,424	0	11/7/2017	C		2/16/2018
4500291463	J E WEINEL INC ROCK-N-RESCUE 300 DELWOOD RD BUTLER, PA 16001-2068 US	RESCUE EQUIP	E	B	5	F	N	1		17,441	17,441	17,441	0	11/8/2017	C		1/18/2018
4500291581	ALSTOM GRID LLC DBA FOR GRID SOLUTIONS (US) LLC 1 POWER LN CHARLEROI, PA 15022-1082 US	BREAKER, HEAD, EVALUATION	S	1	5	F	N	1		8,060	8,060	8,060	0	11/28/2017	C		3/22/2018
4500291801	WARD LUMBER CO INC 3240 STATE ROUTE 11 MALONE, NY 12953-4709 US	CEILING TILES	E	B	5	F	N	3	*	8,520	8,520	8,520	0	12/6/2017	C		1/17/2018
4500291977	NYS INDUSTRIES FOR THE DISABLED INC 11 COLUMBIA CIR ALBANY, NY 12203-5156 US	CLEANING SERVICES	S	B	7	N	N	1		9,154	8,321	8,321	833	12/1/2017	C		11/30/2018
4500292290	HAGE CARPET CO INC 4661 COMMERICAL DR - PO BOX 335 NEW HARTFORD, NY 13413 US	FURNISH DELIVER AND INSTALL CARPET	E	B	7	N	N	1		8,739	8,739	8,739	0	12/5/2017	C		1/30/2018
4500292319	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	TRANSMISSION EQUIPMENT	E	B	5	F	N	3		8,737	8,737	357	0	12/6/2017	C		2/8/2018
4500292845	FM OFFICE EXPRESS INC DBA FM OFFICE PRODUCTS 106 DESPATCH DR - STE 2 EAST ROCHESTER, NY 14445-1448 US	MISCELLANEOUS STOCK ITEMS	E	B	5	F	04	1		5,811	5,811	5,811	0	12/27/2017	C		1/4/2018
4500292989	RIVERS SEPTIC TANK SERVICE 3161 CR21 CANTON, NY 13617 US	SANITATION SERVICES	S	B	5	F	N	2		24,700	16,428	16,428	8,272	1/13/2018	O	1/12/2019	
4500293023	WELLS TECHNOLOGY INC 4885 WINDSOR CT NW BEMIDJI, MN 56601-7659 US	VENDING	E	B	7	F	04	1		7,690	7,690	7,690	0	1/2/2018	C		1/2/2018
4500293029	PRECISION ESCALATOR PRODUCTS INC 147 N MICHIGAN AVE KENILWORTH, NJ 07033-1275 US	ESCALATOR REPLACEMENT PARTS	E	B	5	F	N	2		11,771	11,771	11,771	0	1/2/2018	C		1/22/2018
4500293089	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	F	N	1	*	9,099	9,099	9,099	0	1/4/2018	C		1/10/2018
4500293173	POWERTECH CONTROLS CO INC 909 MOTOR PKWY HAUPPAUGE, NY 11788-5250 US	EQUIPMENT, CIRCUIT BREAKER	E	M	8	F	03	2		78,525	60,454	60,454	18,071	1/5/2018	O	2/27/2019	
4500293390	MCQUADE & BANNIGAN INC 1300 STARK ST - PO BOX 476 UTICA, NY 13503 US	AIR COMPRESSOR	E	B	5	N	N	3		16,200	16,200	16,200	0	1/12/2018	C		5/3/2018
4500293415	SCHWEITZER ENGINEERING LAB INC C/O ROBINSON SALES INC 100 W SIXH ST - STE 4 MEDIA, PA 19063-2433 US	RELAY, SEL	E	B	5	F	N	2		11,315	11,315	11,315	0	1/12/2018	C		2/6/2018

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4500293417	RUBBERCYCLE LLC 1985 RUTGERS BLVD STE 4 LAKEWOOD, NJ 08701-4569 US	RUBBER MULCH	E	B	5	F	N	1		19,268	19,268	19,268	0	1/12/2018	C		4/27/2018
4500293446	SCHWEITZER ENGINEERING LAB INC C/O ROBINSON SALES INC 100 W SIXH ST - STE 4 MEDIA, PA 19063-2433 US	SEL HARDWARE FOR RTU UPGRADES	E	B	5	F	N	3		13,303	13,303	13,303	0	1/15/2018	C		2/5/2018
4500293449	THYSSEN ELEVATOR CO 6067 CORPORATE DR EAST SYRACUSE, NY 13057-1082 US	TROUBLESHOOTING OF ELEVATOR ISSUES	S	B	7	N	N	1		5,741	5,180	5,180	561	1/15/2018	C		3/2/2018
4500293462	LAPP INSULATORS LLC C/O ELECTRICOMM INC 4327 KENCREST DR SYRACUSE, NY 13215 US	INSULATOR, 765KV	E	B	5	F	N	1		49,902	49,902	49,902	0	1/15/2018	C		8/20/2018
4500293478	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	F	N	1	*	22,331	22,331	22,331	0	1/16/2018	C		1/19/2018
4500293772	SENTINEL CONTROL PRODUCTS LLC 23373 SWEDETOWN RD CLATSKANIE, OR 97016-2642 US	LOCKOUT SAFETY, SENTINEL CS-1 KIT	E	B	5	F	N	3	*	8,754	8,754	8,754	0	1/23/2018	C		2/15/2018
4500293781	BISON PROFAB INC 12519 WANDA LN MAGNOLIA, TX 77354-2060 US	ENCLOSURES	E	B	5	N	N	4		16,585	16,585	16,585	0	1/23/2018	C		4/10/2018
4500293939	POREX CLEANROOM PRODUCTS INC FG CLEAN WIPES 2255 WESTOVER RD CHICOPEE, MA 01022-1060 US	WIPING CLOTH	E	B	5	F	N	3	*	14,573	14,573	14,573	0	1/26/2018	C		2/20/2018
4500293972	WESCO DISTRIBUTION INC 500 PRIME PL HAUPPAUGE, NY 11788-5305 US	VITALINK CABLE	E	B	5	F	N	4		18,464	18,366	18,366	98	1/29/2018	C		3/28/2018
4500293999	INDUSTRIAL HANDLING SERVICES INC PO BOX 2922 GLENVILLE, NY 12325-0922 US	BRAKE, THRUSTER	E	B	5	F	01	2		32,625	32,625	32,625	0	1/30/2018	C		3/27/2018
4500294081	ADIRONDACK ENERGY PRODUCTS INC ADIRONDACK PROPANE 17 JUNCTION RD MALONE, NY 12953-4217 US	FUEL	E	B	7	F	01	1		11,418	11,416	11,416	2	1/31/2018	C		1/31/2018
4500294113	WELLS TECHNOLOGY INC 4885 WINDSOR CT NW BEMIDJI, MN 56601-7659 US	VENDING	E	B	7	F	04	1		8,528	8,528	8,528	0	2/1/2018	C		2/1/2018
4500294163	FM OFFICE EXPRESS INC DBA FM OFFICE PRODUCTS 106 DESPATCH DR - STE 2 EAST ROCHESTER, NY 14445-1448 US	MISCELLANEOUS STOCK ITEMS	E	B	7	F	04	1		5,015	5,007	5,007	8	2/2/2018	C		2/21/2018
4500294165	FRONTENAC CRYSTAL SPRINGS WATER INC PO BOX 328 CLAYTON, NY 13624-0372 US	WATER COOLER RENTAL SERVICES	E	B	5	N	N	2		11,000	8,509	8,509	2,491	2/2/2018	O	6/28/2019	

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4500294167	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	TRANSMISSION HARDWARE	E	B	6	F	N	3		5,175	5,175	5,175	0	2/2/2018	C		6/29/2018
4500294366	WESCO DISTRIBUTION INC 465 NEWELL ST - PO BOX 207 WATERTOWN, NY 13601-2427 US	CONDUIT	E	B	5	N	N	3		5,642	5,642	5,642	0	2/7/2018	C		2/21/2018
4500294717	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	F	N	1		15,633	15,631	15,631	2	2/16/2018	C		2/21/2018
4500294743	GRAYBAR ELECTRIC CO INC 229 CHURCH ST ALBANY, NY 12202-1060 US	ELECTRICAL EQUIPMENT	E	B	5	F	N	1		14,021	14,021	14,021	0	2/20/2018	C		4/5/2018
4500294816	FM OFFICE EXPRESS INC DBA FM OFFICE PRODUCTS 106 DESPATCH DR - STE 2 EAST ROCHESTER, NY 14445-1448 US	GRAINGER MATERIAL	E	M	5	F	04	1	*	5,524	5,524	5,524	0	2/21/2018	C		2/28/2018
4500294894	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	ONSITE SUPPORT	S	1	5	F	N	1		9,400	8,046	8,046	1,354	2/23/2018	C		9/4/2018
4500294933	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	INSULATORS	E	B	5	F	N	3		23,700	23,700	23,700	0	2/23/2018	C		6/27/2018
4500295102	FM OFFICE EXPRESS INC DBA FM OFFICE PRODUCTS 106 DESPATCH DR - STE 2 EAST ROCHESTER, NY 14445-1448 US	MISCELLANEOUS STOCK ITEMS	E	B	5	F	04	1		6,611	6,611	6,611	0	3/1/2018	C		3/7/2018
4500295111	SOUTHERN STATES LLC 30 GEORGIA AVE HAMPTON, GA 30228-2950 US	SWITCH, DISCONNECT	E	B	5	F	N	2		6,978	0	0	6,978	3/1/2018	C		7/20/2018
4500295207	UPSTONE MATERIALS INC 111 QUARRY RD PLATTSBURGH, NY 12901 US	CONCRETE	E	B	7	N	N	1		6,350	5,644	5,644	706	3/5/2018	C		6/13/2018
4500295346	ALSTOM GRID LLC DBA FOR GRID SOLUTIONS (US) LLC 601 TOWNSEND RD COCOA, FL 32926-3321 US	ALSTOM PRESSURE SWITCHES AND GAUGES	E	B	5	F	N	3		10,610	10,610	10,610	0	3/8/2018	C		6/14/2018
4500295487	ALSTOM GRID LLC DBA FOR GRID SOLUTIONS (US) LLC 1 POWER LN CHARLEROI, PA 15022-1082 US	OVERHAUL OF BREAKER (REPAIR)	S	1	8	F	N	1		63,920	63,920	63,920	0	3/13/2018	C		12/4/2018
4500295495	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	F	N	1	*	12,203	12,203	12,203	0	3/13/2018	C		3/22/2018
4500295496	MATERIAL HANDLING PRODUCTS CORP 6601 JOY DR EAST SYRACUSE, NY 13057-1107 US	DYNA RACK	E	B	5	F	N	1		16,510	16,510	16,510	0	3/13/2018	C		5/30/2018

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4500295538	OTIS ELEVATOR CO 5 TECHNOLOGY PL EAST SYRACUSE, NY 13057-9738 US	ELEVATOR, ASSESSMENT, REPAIRS	S	B	7	N	N	1		25,000	8,460	8,460	16,540	3/14/2018	C		9/28/2018
4500295577	POWER ASSET RECOVERY CORPORATION 3721 WHIPPLE AVE NW STE 2 CANTON, OH 44718-2933 US	115 BUSHING	E	B	5	N	N	3	*	8,187	8,187	8,187	0	3/15/2018	C		4/2/2018
4500295599	CITY ELECTRIC CO INC 6768 SH 56 POTSDAM, NY 13676-3554 US	CABLE	E	B	5	N	N	3		8,083	8,083	8,083	0	3/15/2018	C		3/22/2018
4500295626	WELLS TECHNOLOGY INC 4885 WINDSOR CT NW BEMIDJI, MN 56601-7659 US	VENDING FEB	E	B	7	F	04	1		7,154	7,154	7,154	0	3/16/2018	C		3/16/2018
4500295688	CJ INC 909 CORMORANT AVE DETROIT LAKES, MN 56501-6983 US	SKID STEER ATTACHMENT	E	2	5	F	N	1		7,327	7,327	7,327	0	3/20/2018	C		3/30/2018
4500295727	ELECTRO INDUSTRIES 1800 SHAMES DR WESTBURY, NY 11590 US	METER, NEXUS	E	B	5	F	N	2	*	6,355	6,355	6,355	0	3/21/2018	C		4/23/2018
4500295823	SCHWEITZER ENGINEERING LAB INC C/O ROBINSON SALES INC 100 W SIXH ST - STE 4 MEDIA, PA 19063-2433 US	RELAY, MULTIFUNCTION	E	B	5	F	N	2		14,860	14,860	14,860	0	3/23/2018	C		4/24/2018
4500295846	CITY ELECTRIC CO INC 6768 SH 56 POTSDAM, NY 13676-3554 US	CABLE, COPPER	E	B		F	N	7		157,530	157,530	157,530	0	3/23/2018	C		4/11/2018
4500296000	ADVANCED POWER PRODUCTS AND SOLUTIONS 123 TOWN SQUARE PLACE #224 JERSEY CITY, NJ 07310-1756 US	RELAY, I/O, GE	E	B	5	F	N	2		33,265	33,265	33,265	0	3/28/2018	C		4/18/2018
4500296008	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	COMPUTER, DESKTOP	E	B	5	N	04	4		14,181	14,181	14,181	0	3/29/2018	C		4/27/2018
4500296016	SCHWEITZER ENGINEERING LAB INC C/O ROBINSON SALES INC 100 W SIXH ST - STE 4 MEDIA, PA 19063-2433 US	RELAY, PROTECTION	E	B	5	F	N	3		33,940	33,940	33,940	0	3/29/2018	C		4/26/2018
4500296022	HILLYARD INC 125 RAWSON RD VICTOR, NY 14564-1127 US	SWEEPER, CLEANER	E	B	7	F	N	1		29,931	29,931	29,931	0	3/29/2018	C		5/7/2018
4500296123	KORRECT OPTICAL 3801 BISHOP LN LOUISVILLE, KY 40218-2905 US	SAFETY EYEWEAR	E	B	5	F	N	4		10,500	5,470	5,470	5,030	4/3/2018	O	4/6/2019	
4500296134	LAPP INSULATORS LLC C/O ELECTRICOMM INC 4327 KENCREST DR SYRACUSE, NY 13215 US	INSULATOR, STATION POST	E	B	5	F	N	1	*	6,398	6,398	6,398	0	4/3/2018	C		8/21/2018
4500296158	DIVAL SAFETY EQUIPMENT INC 1721 NIAGARA ST BUFFALO, NY 14207-3108 US	SAFETY FOOTWEAR	E	B	5	N	N	4		20,000	14,616	14,616	5,384	4/4/2018	O	6/3/2019	
4500296160	W W GRAINGER INC 6285 E MOLLOY RD EAST SYRACUSE, NY 13057 US	SAFETY FOOTWEAR	E	B	5	N	N	4		7,500	5,354	5,354	2,146	4/4/2018	O	6/3/2019	

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4500296161	SAF-GARD SAFETY SHOE CO 1285 MANHEIM PIKE LANCASTER, PA 17601 US	SAFETY FOOTWEAR	E	B	5	N	N	4		8,000	6,995	6,995	1,005	4/4/2018	O	6/3/2019	
4500296187	L C MAGNETICS INC 1139 N KRAEMER PL ANAHEIM, CA 92806-1923 US	POWER SUPPLY NON MOTORIZED	E	B	5	F	N	2	*	7,160	7,160	7,160	0	4/4/2018	C		5/8/2018
4500296208	WAYPOINT TECHNOLOGY GROUP LLC 17 COMPUTER DR E ALBANY, NY 12205 US	TRIMBLE GEO 7X HANDHELD GPS UNIT	E	B	5	F	N	1		14,945	14,945	14,945	0	4/4/2018	C		4/16/2018
4500296263	WELLS TECHNOLOGY INC 4885 WINDSOR CT NW BEMIDJI, MN 56601-7659 US	VENDING MARCH	E	B	7	F	04	1		6,671	6,657	6,657	14	4/6/2018	C		4/6/2018
4500296266	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	MISCELLANEOUS WIRE	E	B	5	F	N	4		5,380	5,380	5,380	0	4/6/2018	C		4/17/2018
4500296344	SUBSURFACE UTILITY IMAGING LLC 6431 US HIGHWAY 11 - PO BOX 463 CANTON, NY 13617-3979 US	IMAGING, SUBSURFACE UTILITY	S	B	5	N	N	2		20,460	20,460	20,460	0	4/9/2018	C		6/8/2018
4500296393	GRAYBAR ELECTRIC CO INC 229 CHURCH ST ALBANY, NY 12202-1060 US	TRANSFORMER, ELECTRICAL	E	B	5	F	N	1		30,774	30,774	30,774	0	4/10/2018	C		5/31/2018
4500296408	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	F	N	1	*	15,734	15,734	15,734	0	4/10/2018	C		4/16/2018
4500296534	WESCO DISTRIBUTION INC 500 PRIME PL HAUPPAUGE, NY 11788-5305 US	ELECTRICAL COMPONENTS	E	B	5	F	N	2	*	20,304	20,304	20,304	0	4/13/2018	C		5/3/2018
4500296539	ADVANCED CONTROL SYSTEMS INC 2755 NORTHWOODS PKWY PEACHTREE CORNERS, GA 30071-1533 US	INPUT/OUTPUT MODULES	E	B		F	N	2	*	72,815	72,815	72,815	0	4/13/2018	C		4/30/2018
4500296645	N C C SYSTEMS INC PO BOX 670 POTSDAM, NY 13676 US	EXTINGUISHER, FIRE SERVICE	S	B	5	N	01	2		23,994	0	0	23,994	4/17/2018	O	4/16/2019	
4500296927	BC CLEANING DBA FOR BOGASIAN CARPET CO INC 70 WILLOW ST MASSENA, NY 13662-1576 US	CARPET, MAT, RENTAL	E	B	5	N	01	3		16,000	6,252	6,252	9,748	4/26/2018	O	5/4/2019	
4500296931	FM OFFICE EXPRESS INC DBA FM OFFICE PRODUCTS 106 DESPATCH DR - STE 2 EAST ROCHESTER, NY 14445-1448 US	RTD INPUT MODULE	E	B	5	N	04	3		22,725	22,725	22,725	0	4/26/2018	C		5/4/2018
4500296959	US DEPT OF AGRICULTURE ANIMAL & PLANT HEALTH INSPECTION 1930 ROUTE 9 CASTLETON, NY 12033-9607 US	CANADIAN GOOSE DAMAGE	S	2	5	N	N	1		6,000	4,799	4,799	1,201	4/26/2018	C		7/30/2018

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4500296973	JEFFORDS STEEL & ENGINEERING CO DBA FOR JEFFORDS STEEL&SPECIALITY PO BOX 40 PLATTSBURGH, NY 12901-0040 US	GALVANIZED STEEL PIPE	E	B	5	N	01	4		14,999	14,999	14,999	0	4/26/2018	C		5/15/2018
4500297052	ALLSTEEL INC C/O BUSINESS ENVIROMENTS 2210 2ND AVE MUSCATINE, IA 52761-5257 US	FURNITURE	E	B	7	F	N	3		32,401	32,401	32,401	0	4/30/2018	C		6/12/2018
4500297109	GRAYBAR ELECTRIC CO INC 229 CHURCH ST ALBANY, NY 12202-1060 US	CABLE, POWER	E	B	5	N	N	2	*	5,921	5,921	5,921	0	5/1/2018	C		5/7/2018
4500297158	JEFFORDS STEEL & ENGINEERING CO DBA FOR JEFFORDS STEEL&SPECIALITY PO BOX 40 PLATTSBURGH, NY 12901-0040 US	PIERS, STEEL	E	B	5	N	01	1		21,450	21,450	21,450	0	5/2/2018	C		6/13/2018
4500297207	UPSTONE MATERIALS INC 111 QUARRY RD PLATTSBURGH, NY 12901 US	CONCRETE	E	B	7	N	N	1		13,886	12,295	12,295	1,591	5/3/2018	C		5/7/2018
4500297231	ADMAR SUPPLY CO INC 7800 BREWERTON RD CICERO, NY 13039 US	COMPACTION TAMPER	E	B	5	N	N	3		12,119	12,119	12,119	0	5/4/2018	C		5/7/2018
4500297318	DOBLE ENGINEERING CORP 85 WALNUT ST WATERTOWN, MA 02472 US	RTS RENEWAL	S	2	5	F	N	1		25,001	25,001	25,001	0	6/1/2018	O	5/31/2019	
4500297398	GRAYBAR ELECTRIC CO INC 6605 DEERE RD SYRACUSE, NY 13206-1325 US	RIGID CONDUIT	E	B	5	N	N	3		10,394	10,394	10,394	0	5/9/2018	C		5/24/2018
4500297418	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	230KV BUSHING	E	B	5	F	N	3		15,861	15,861	15,861	0	5/10/2018	C		8/14/2018
4500297540	MCQUADE & BANNIGAN INC 1300 STARK ST - PO BOX 476 UTICA, NY 13503 US	MISCELLANEOUS MATERIAL	E	B	5	N	N	4		7,072	7,072	7,072	0	5/14/2018	C		5/31/2018
4500297767	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	F	N	1	*	13,598	13,598	13,598	0	5/21/2018	C		5/21/2018
4500297789	GRAYBAR ELECTRIC CO INC 6605 DEERE RD SYRACUSE, NY 13206-1325 US	CONDULET BODY WITH COVER AND GASKET	E	B	5	N	N	4		9,999	9,999	9,999	0	5/21/2018	C		5/25/2018
4500297820	WELLS TECHNOLOGY INC 4885 WINDSOR CT NW BEMIDJI, MN 56601-7659 US	VENDING, APRIL	E	B	7	N	04	1		5,938	5,938	5,938	0	5/22/2018	C		5/22/2018
4500297842	UPSTONE MATERIALS INC 111 QUARRY RD PLATTSBURGH, NY 12901 US	STONE, CRUSHED	E	B	7	N	N	1		18,579	15,125	15,125	3,454	5/22/2018	C		5/23/2018
4500298174	RONCO COMMUNICATIONS & ELECTRONICS INC 595 SHERIDAN DR TONAWANDA, NY 14150 US	PANEL, CLEARTOUCH	E	B	5	N	N	2		6,010	6,010	6,010	0	6/5/2018	C		8/6/2018
4500298473	CITY ELECTRIC CO INC 6768 SH 56 POTSDAM, NY 13676-3554 US	RIGID CONDUIT	E	B	5	N	N	4		6,291	6,291	6,291	0	6/14/2018	C		6/18/2018

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4500298480	RED WING BUSINESS ADVANTAGE ACCOUNT DBA FOR MULTI SERVICE TECH SOLUTION 6354 TRANSIT RD DEPEW, NY 14043-1072 US	FOOTWEAR, SAFETY	E	B	7	N	N	4		20,000	18,201	18,201	1,799	6/14/2018	O	6/3/2019	
4500298501	WELLS TECHNOLOGY INC 4885 WINDSOR CT NW BEMIDJI, MN 56601-7659 US	VENDING, MAY	E	B	7	N	04	1		7,632	7,632	7,632	0	6/14/2018	C		6/14/2018
4500298548	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	INSULATORS, TYPE J	E	B	5	N	N	3		28,980	28,980	28,980	0	6/18/2018	C		7/23/2018
4500298549	BITZER US INC 4080 ENTERPRISE WAY FLOWERY BRANCH, GA 30542-2896 US	COMPRESSOR, SCROLL	E	B	5	F	N	1		16,397	16,292	16,292	105	6/18/2018	C		8/2/2018
4500298591	GRASSE RIVER ASPHALT & PAVING INC 977 COUNTY ROUTE 25 CANTON, NY 13617-6541 US	REPAIR, SIDEWALK	S	B	5	N	01	1		15,800	13,610	13,610	2,190	6/19/2018	C		7/2/2018
4500298614	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1	*	10,091	10,091	10,091	0	6/19/2018	C		6/19/2018
4500298627	PRECISION ESCALATOR PRODUCTS INC 147 N MICHIGAN AVE KENILWORTH, NJ 07033-1275 US	GEARS, ESCALATOR	E	B	5	F	N	1		33,000	33,000	33,000	0	6/20/2018	C		8/2/2018
4500298645	WELLS TECHNOLOGY INC 4885 WINDSOR CT NW BEMIDJI, MN 56601-7659 US	HYDRAULIC JACK	E	B	7	N	04	1		6,757	6,757	6,757	0	6/20/2018	C		6/22/2018
4500298656	NOCO ENERGY CORP 2440 SHERIDAN DR - STE 202 TONAWANDA, NY 14150-9493 US	OIL, TURBINE	E	B	5	N	N	1		7,320	7,235	7,235	85	6/20/2018	C		7/11/2018
4500298743	ARBORCHEM PRODUCTS INC 943 NIXON DR MECHANICSBURG, PA 17055 US	HERBICIDE ACCORD XRT II	E	B	5	N	N	3		7,380	7,380	7,380	0	6/22/2018	C		6/27/2018
4500298907	BRONSTEIN CONTAINER CO INC 1313 RAMS GULCH RD JAMESVILLE, NY 13078 US	55 GALLON STEEL DRUMS	E	B	5	N	N	3		7,454	7,454	7,454	0	6/28/2018	C		8/6/2018
4500299074	WELLS TECHNOLOGY INC 4885 WINDSOR CT NW BEMIDJI, MN 56601-7659 US	VENDING, JUNE	E	B	7	N	04	1		9,196	9,196	9,196	0	7/5/2018	C		7/5/2018
4500299189	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1	*	20,456	20,456	20,456	0	7/10/2018	C		7/10/2018
4500299265	THYSSEN ELEVATOR CO 6067 CORPORATE DR EAST SYRACUSE, NY 13057-1082 US	SAFETY, INSPECTION, ELEVATOR	S	B	7	N	N	1		13,789	13,789	13,789	0	7/12/2018	C		8/20/2018
4500299490	PIERCE STEEL FABRICATORS INC 430 N 7TH ST OLEAN, NY 14760-2330 US	GUSSET, ROTOR	E	B	5	N	N	1		12,408	12,408	12,408	0	7/19/2018	C		8/30/2018

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4500299494	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1	*	9,578	9,578	9,578	0	7/19/2018	C		7/31/2018
4500299562	UPSTONE MATERIALS INC 111 QUARRY RD PLATTSBURGH, NY 12901 US	STONE, CRUSHER RUN	E	B	7	N	N	1		18,465	9,678	9,678	8,787	7/23/2018	C		8/30/2018
4500299568	UPSTONE MATERIALS INC 111 QUARRY RD PLATTSBURGH, NY 12901 US	CONCRETE, 4000PSI	E	B	7	N	N	1		15,890	10,452	10,452	5,438	7/23/2018	C		8/30/2018
4500299572	NORTH POINT TECHNOLOGY LLC 816 BUFFALO ST ENDICOTT, NY 13760-1780 US	SOFTWARE, IGNITION	E	B	5	N	N	2		17,500	17,500	17,500	0	7/23/2018	C		7/23/2018
4500299577	DOWD BATTERY CO INC 1571 BRONSON RD GRAND ISLAND, NY 14072-2910 US	BATTERY REPLACEMENT	S	2	5	N	01	1		13,509	0	0	13,509	7/23/2018	O	1/16/2019	
4500299600	COACHS CORNER PO BOX 95 MASSENA, NY 13662-0095 US	MEAL, LUNCHEON	S	B	5	N	N	2		5,119	5,119	5,119	0	7/23/2018	C		8/3/2018
4500299800	KAMAN FLUID POWER LLC 6770 OLD COLLAMER RD EAST SYRACUSE, NY 13057-1122 US	PROPORTIONAL CONTROL VALVE	E	B	5	N	N	3	*	12,759	12,759	12,759	0	7/30/2018	C		8/30/2018
4500299823	COACHS CORNER PO BOX 95 MASSENA, NY 13662-0095 US	NYPA 6OTH ANNIVERSARY DINNER	S	B	6	N	N	4		8,851	8,851	8,851	0	7/30/2018	C		8/24/2018
4500299872	NORTHERN MECHANICALS INC 2 BALDWIN AVE - PO BOX 195 NORWOOD, NY 13668-0195 US	CONDENSATE LINE INSTALLATION	C	B	5	N	01	1		11,200	11,200	11,200	0	8/30/2018	C		10/5/2018
4500299882	VICTOR INSULATORS INC 280 MAPLE AVE VICTOR, NY 14564-1385 US	INSULATOR, 765KV	E	B	5	F	N	4		20,700	0	0	20,700	7/31/2018	O	1/31/2019	
4500299984	WELLS TECHNOLOGY INC 4885 WINDSOR CT NW BEMIDJI, MN 56601-7659 US	VENDING JULY	E	B	7	N	04	1		6,844	6,844	6,844	0	8/3/2018	C		8/3/2018
4500300271	ARTYS DESIGNS DBA FOR JOHN C AND ARTYS H MCNAMARA 2102 BEDFORD ST ROME, NY 13440-2207 US	WINDOW COVERINGS (SEVERAL)	E	M	5	N	N	1		10,431	5,216	5,216	5,215	8/13/2018	O	2/28/2019	
4500300321	AIRGAS USA LLC DBA FOR AIRGAS INC 96 CR8 BRUSHTON, NY 12916 US	WELDER, MACHINE	E	B	5	N	N	2		11,694	11,694	11,694	0	8/14/2018	C		10/4/2018
4500300460	ABB INC 800 HYMUS BOULEVARD ST LAURENT, PQ H4S 0B5 CA	TRANSDUCERS	E	B	5	F	N	1		5,568	5,568	5,568	0	8/17/2018	C		9/25/2018
4500300504	JEFFORDS STEEL & ENGINEERING CO DBA FOR JEFFORDS STEEL&SPECIALITY PO BOX 40 PLATTSBURGH, NY 12901-0040 US	REINFORCING STEEL FOR INDIVIDUAL PIER FOUNDATION	C	B	6	N	01	3		5,317	5,317	5,317	0	8/20/2018	C		8/29/2018

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4500300515	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1	*	23,112	23,112	23,112	0	8/27/2018	C		9/4/2018
4500300567	BOLTTECH MANNINGS INC 321 RICHARD MINE RD - STE 300 WHARTON, NJ 07885-1838 US	MACHINE, INDUCTION	E	B		F	N	3		88,830	81,199	81,199	7,631	8/21/2018	C		12/28/2018
4500300679	SEAWAY TIMBER HARVESTING INC 15121 STATE HWY 37 MASSENA, NY 13662 US	SAND, FINE	E	B	5	N	N	2		11,530	11,185	11,185	345	8/23/2018	C		8/31/2018
4500300817	VAISALA INC 194 S TAYLOR AVE LOUISVILLE, CO 80027-3024 US	LIGHTNING DATA SERVICES	S	2	5	F	N	1		19,590	19,590	19,590	0	8/28/2018	C		12/31/2018
4500300932	ASI SYSTEM INTEGRATION INC DBA FOR AGILANT SOLUTIONS INC 3 SEAVIEW BLVD PORT WASHINGTON, NY 11050-4610 US	SINGLE PHASE TRANSFER SWITCH	E	B	5	N	04	3		5,201	5,201	5,201	0	8/31/2018	C		8/31/2018
4500300956	BRISTOL HARBOR GROUP INC 99 POPPASQUASH RD UNIT H BRISTOL, RI 02809-1018 US	ENGINEERING SERVICES TO DESIGN OF BUOY FOR TAILRACE WATERS	A	B	5	N	N	1		45,000	9,000	9,000	36,000	8/31/2018	O	7/31/2019	
4500301005	WELLS TECHNOLOGY INC 4885 WINDSOR CT NW BEMIDJI, MN 56601-7659 US	AUGUST VENDING	E	B	7	N	04	1		7,559	7,559	7,559	0	9/4/2018	C		9/4/2018
4500301041	BARRETT PAVING MATERIALS INC 26572 NYS ROUTE 37 WATERTOWN, NY 13601-5833 US	STONE, FILL	E	B	7	N	N	1		9,420	7,715	7,715	1,705	9/5/2018	C		10/23/2018
4500301081	UPSTONE MATERIALS INC 111 QUARRY RD PLATTSBURGH, NY 12901 US	CONCRETE, 4000PSI	E	B	7	N	N	1		5,850	4,563	4,563	1,287	9/6/2018	C		10/24/2018
4500301234	HACH CHEMICAL CO PO BOX 389 LOVELAND, CO 80539 US	CHLORINE PROCESS ANALYZER	E	B	5	F	N	3	*	7,370	7,370	7,370	0	9/11/2018	C		11/3/2018
4500301431	ROLFE INDUSTRIES INC 2 PARKFORD DR - PO BOX 673 CLIFTON PARK, NY 12065-3234 US	PUMP, REPLACEMENT	E	B	6	N	03	1	*	15,117	15,117	15,117	0	9/17/2018	C		9/17/2018
4500301546	BARRETT PAVING MATERIALS INC 7971 STATE HIGHWAY 56 NORWOOD, NY 13668-3252 US	STONE, CRUSHER RUN	E	B	7	N	N	1		15,128	10,138	10,138	4,990	9/19/2018	C		11/26/2018
4500301596	DELTA X RESEARCH INC PO BOX 42083 OAK BAY AVENUE VICTORIA, BC V8R 6T4 CA	TRANSFORMER WATCH SUBSCRIPTION TOA4	S	2	5	F	N	1		9,522	9,522	9,522	0	9/20/2018	O	8/12/2019	
4500301599	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1	*	7,797	7,797	7,797	0	9/20/2018	C		9/28/2018
4500301638	UPSTONE MATERIALS INC 111 QUARRY RD PLATTSBURGH, NY 12901 US	CONCRETE, FLOWABLE FILL	E	B	7	N	N	1		18,225	17,219	17,219	1,006	9/21/2018	C		11/15/2018
4500301674	ALSTOM GRID LLC DBA FOR GRID SOLUTIONS (US) LLC 10 PALUSO DR CHARLEROI, PA 15022-1076 US	BREAKER, CIRCUIT, SPARES	E	B		F	N	2		122,943	0	0	122,943	9/24/2018	O	8/30/2019	

CONTRACT NUMBER	PROVIDER NAME	CONTRACT DESCRIPTION	TYPE	MOA	RNA	OPA	MWBE	BIDS	FRT	TOTAL CONTRACT AMOUNT	TOTAL EXPENDED TO DATE	AMOUNT EXPENDED 2018	CONTRACT BALANCE	DATE OF CONTRACT	O\C	PROJ COMPLETE DATE	DATE CONTRACT COMPLETE
4500301748	JOHNSON CONTROLS INC 130 JOHN MUIR DR - STE 100 AMHERST, NY 14228-1139 US	ACCESS CONTROL SYSTEM MAINTENANCE AGREEMENT	S	B	7	N	N	1		99,969	52,269	52,269	47,700	10/1/2018	O	9/30/2019	
4500301753	OMICRON ELECTRONICS CORP USA 3550 WILLOWBEND BLVD HOUSTON, TX 77054-1127 US	MODULE, COMPANO	E	B	5	F	N	1		14,030	14,030	14,030	0	9/26/2018	C		10/12/2018
4500301755	ORKIN PEST CONTROL DBA FOR ROLLINS INC 537 QUEENSBURY AVE QUEENSBURY, NY 12804-7613 US	PEST CONTROL SERVICES	S	B	5	N	N	1		12,300	5,883	5,883	6,417	10/15/2018	O	10/14/2019	
4500302007	WELLS TECHNOLOGY INC 4885 WINDSOR CT NW BEMIDJI, MN 56601-7659 US	VENDING, SEPT	E	B	7	N	04	1		6,223	6,223	6,223	0	10/3/2018	C		10/3/2018
4500302083	LIFE SCIENCE LABORATORIES INC 5854 BUTTERNUT DR EAST SYRACUSE, NY 13057-9513 US	SAMPLING, SPDES	S	B	5	N	01	1		20,000	1,303	1,303	18,697	10/15/2018	O	10/14/2019	
4500302159	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	FOOT CONTACT	E	B	5	F	N	3		11,067	11,067	11,067	0	10/9/2018	C		12/20/2018
4500302187	TEREX UTILITIES INC DBA TEREX SERVICES N4W22610 BLUEMOUND RD WAUKESHA, WI 53186-1623 US	SERVO VALVE NEEDED ASAP	E	1	5	N	N	1	*	5,229	5,229	5,229	0	10/10/2018	C		10/11/2018
4500302241	TMT CONTRACTORS INC 1484 US HIGHWAY 11 GOUVERNEUR, NY 13642-3407 US	SNOW REMOVAL, COOPER HILL	S	B	5	N	01	1		20,000	2,730	2,730	17,270	11/1/2018	O	5/31/2019	
4500302317	VOITH HYDRO INC 760 E BERLIN RD YORK, PA 17408-8701 US	AMPLIFIER CARDS	E	B	5	N	N	3		11,940	7,960	7,960	3,980	10/15/2018	C		11/26/2018
4500302465	BUB'S ENTERPRISES LLC DALE EARL 3893 STATE ROUTE 11 MALONE, NY 12953-3725 US	SNOW REMOVAL, DULEY SUB	S	B	5	N	01	2		14,500	0	0	14,500	10/18/2018	O	5/31/2019	
4500302480	ADIRONDACK ENERGY PRODUCTS INC ADIRONDACK PROPANE 17 JUNCTION RD MALONE, NY 12953-4217 US	FUEL	E	B	7	N	01	1		8,836	8,815	8,815	21	10/18/2018	C		10/26/2018
4500302502	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		11,167	11,154	11,154	13	10/12/2018	C		10/12/2018
4500302547	ADVANCED CONTROL SYSTEMS INC 2755 NORTHWOODS PKWY PEACHTREE CORNERS, GA 30071-1533 US	MODULE, UPGRADES	E	B	5	F	N	2		8,574	8,574	8,574	0	10/22/2018	C		11/1/2018
4500302615	FIACCO & RILEY CONSTRUCTION INC 283 CR48 NORWOOD, NY 13668 US	HYDROSEEDING	S	B	5	N	N	2		21,720	0	0	21,720	10/23/2018	C		11/2/2018

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4500302713	AMERICAN ROCK SALT CO LLC DBA FOR AMERICAN ROCK SALT HOLDING PO BOX 190 MOUNT MORRIS, NY 14510-0190 US	SALT, ROAD	E	B	7	N	N	1		87,000	72,386	72,386	14,614	10/26/2018	O	2/28/2019	
4500302894	POWER ASSET RECOVERY CORPORATION 3721 WHIPPLE AVE NW STE 2 CANTON, OH 44718-2933 US	115KV BUSHINGS - REYNOLDS AUTO 1	E	B	6	N	N	3	*	22,385	22,385	22,385	0	10/31/2018	C		11/5/2018
4500302947	WELLS TECHNOLOGY INC 4885 WINDSOR CT NW BEMIDJI, MN 56601-7659 US	OCTOBER VENDING	E	B	7	N	04	1		7,678	7,678	7,678	0	11/1/2018	C		11/1/2018
4500303063	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	COMPUTER, HP WORKSTATIONS	E	B	5	N	04	1		8,021	8,021	8,021	0	11/5/2018	C		11/21/2018
4500303137	FM OFFICE EXPRESS INC DBA FM OFFICE PRODUCTS 106 DESPATCH DR - STE 2 EAST ROCHESTER, NY 14445-1448 US	HEATER, ELECTRIC	E	B	5	F	04	3		5,511	0	0	5,511	11/7/2018	C		11/27/2018
4500303168	CDW COMPUTER CENTER INC CDW GOV'T SALES 200/230 N MILWAUKEE AVE VERNON HILLS, IL 60061 US	IT HARDWARE AND SOFTWARE UPGRADE	H	B	7	N	N	3		59,019	52,530	52,530	6,489	11/7/2018	C		11/7/2018
4500303176	RIVERSIDE IRON LLC 26 WATER ST GOUVERNEUR, NY 13642 US	SUPPORTS, STEEL, MOD	E	B	5	N	N	3		12,789	12,789	12,789	0	11/7/2018	C		11/20/2018
4500303361	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		7,288	7,266	7,266	22	11/15/2018	C		11/26/2018
4500303367	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	TRANSFORMER BUSHINGS	E	B	5	F	N	2		33,626	0	0	33,626	11/15/2018	C		11/15/2018
4500303383	PRECISION ESCALATOR PRODUCTS INC 147 N MICHIGAN AVE KENILWORTH, NJ 07033-1275 US	ESCALATOR, GEAR	E	B	5	F	N	1		33,000	0	0	33,000	11/15/2018	O	2/15/2019	
4500303471	ABB INC 901 MAIN CAMPUS DR STE 500 RALEIGH, NC 27606-5244 US	BLAST VALVE CUP AND BUMPER	E	B	5	N	N	1		6,690	0	0	6,690	11/19/2018	C		11/19/2018
4500303487	KELLY SALES CORP 3503 CTY ROUTE 14 MADRID, NY 13660-3105 US	GARAGE DOOR MAINTENANCE	S	B	6	N	01	1		7,995	0	0	7,995	11/20/2018	C		11/20/2018
4500303554	B & H PHOTO VIDEO DBA FOR B&H FOTO & ELECTRONICS CORP 420 9TH AVE NEW YORK, NY 10001-1644 US	HARDWARE, TECHNOLOGY	H	B	5	F	N	3		6,300	4,200	4,200	2,100	11/26/2018	C		12/5/2018
4500303646	NYS INDUSTRIES FOR THE DISABLED INC 11 COLUMBIA CIR ALBANY, NY 12203-5156 US	CLEANING SERVICES	S	B	5	N	N	1		9,696	0	0	9,696	12/1/2018	O	11/30/2019	
4500303655	RONCO COMMUNICATIONS & ELECTRONICS INC 595 SHERIDAN DR TONAWANDA, NY 14150 US	PANEL, INTERACTIVE	E	B	7	F	N	2		23,180	0	0	23,180	11/28/2018	C		12/28/2018

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4500303802	ADVANCED CONTROL SYSTEMS INC 2755 NORTHWOODS PKWY PEACHTREE CORNERS, GA 30071-1533 US	HARDWARE, ACS	H	B	5	F	N	1		18,121	18,121	18,121	0	12/3/2018	C		12/12/2018
4500303862	ASI SYSTEM INTEGRATION INC DBA FOR AGILANT SOLUTIONS INC 3 SEAVIEW BLVD PORT WASHINGTON, NY 11050-4610 US	HP PROBOOK CDW ORDER	H	B	5	N	04	3		9,219	0	0	9,219	12/4/2018	C		12/13/2018
4500303882	WESCO DISTRIBUTION INC 465 NEWELL ST - PO BOX 207 WATERTOWN, NY 13601-2427 US	REPAIR KIT, EASTON	E	B	5	N	N	3		6,738	0	0	6,738	12/5/2018	C		12/5/2018
4500303960	GRAYBAR ELECTRIC CO INC 6605 DEERE RD SYRACUSE, NY 13206-1325 US	PLP SPLICE - TRANSMISSION HARDWARE	E	B	5	F	N	4		17,403	0	0	17,403	12/6/2018	O	1/25/2019	
4500303967	COMPULINK TECHNOLOGIES INC 260 W 39TH ST - STE 302 NEW YORK, NY 10018-4434 US	IT HARDWARE	H	B	7	F	04	2		57,857	46,568	46,568	11,289	12/6/2018	O	3/15/2019	
4500304123	ABB INC 13695 RIDER TRAIL N EARTH CITY, MO 63045-1512 US	BUSHING INSTALLATION	S	1	5	F	N	1		27,250	0	0	27,250	12/12/2018	C		12/28/2018
4500304345	INDUSTRIAL HANDLING SERVICES INC PO BOX 2922 GLENVILLE, NY 12325-0922 US	BRAKE, THRUSTER	E	B	5	F	01	3		32,625	0	0	32,625	12/18/2018	O	2/15/2019	
4500304496	BRONSTEIN CONTAINER CO INC 1313 RAMS GULCH RD JAMESVILLE, NY 13078 US	55 GALLON DRUMS	E	B	5	F	N	3		9,776	0	0	9,776	12/21/2018	O	1/16/2019	
4500304526	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	HI-VIZ PERSONAL PROTECTIVE GROUNDING CABLE	E	B	5	F	N	3		10,200	0	0	10,200	12/26/2018	O	2/5/2019	
4500304584	SOUTHERN STATES LLC 30 GEORGIA AVE HAMPTON, GA 30228-2950 US	HOLDER, FUSE	E	B	5	F	N	1		6,510	0	0	6,510	12/28/2018	O	3/22/2019	
4600002929	CASELLA WASTE SERVICES PO BOX 5195 POTSDAM, NY 13676 US	REFUSE SERVICES	S	B	8	N	N	1		400,000	273,799	19,176	126,201	4/1/2015	C		3/31/2018
4600002939	MILIEU INC 235 NOTRE-DAME ST LA PRAIRIE, PQ J5R 1M3 CA	PROVIDE FOR THE OPERATION, MAINTENANCE AND MONITORING OF THE EEL PASSAGE FACILITY AT ST. LAWRENCE POWER PROJECT	S	B		N	N	2		455,800	332,432	92,640	123,368	4/1/2015	O	3/31/2020	
4600002961	FUSION BABBITTING CO INC 4540 W BURNHAM ST MILWAUKEE, WI 53219 US	REFURBISH THRUST SHOE SEGMENTS	S	B		F	N	3		225,000	171,000	34,200	54,000	8/3/2015	C		8/2/2018
4600003175	STUART C IRBY CO 4583 BUCKLEY RD LIVERPOOL, NY 13088-2508 US	TRANSMISSION HARDWARE	E	B		N	N	1		500,000	254,616	88,502	245,384	5/29/2016	O	5/28/2019	
4600003178	MCFARLAND CASCADE HOLDINGS INC DBA MCFARLAND CASCADE 1400 IRON HORSE PARK NORTH BILLERICA, MA 01862 US	WOOD POLES	E	B		F	N	2		2,500,000	910,921	608,745	1,589,079	6/28/2016	O	6/27/2019	
4600003268	AMERICAN VETERAN ENTERPRISE TEAM LLC - JASON L AMBROSINO 855 GREEN CORNERS RD AMSTERDAM, NY 12010-8508 US	LOCKS	E	B	8	F	02	2		250,000	102,550	13,505	147,450	1/13/2017	O	1/12/2022	

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4600003282	N C C SYSTEMS INC PO BOX 670 POTSDAM, NY 13676 US	FIRE EXTINGUISHER SERVICES	S	B	5	F	01	1		32,000	30,162	0	1,838	4/10/2017	C		4/9/2018
4600003333	MABEY INC 218 N RANDOLPHVILLE RD PISCATAWAY, NJ 08854-3127 US	DURA BASE COMPOSITE MATTING	E	B		F	N	2		250,000	121,350	63,050	128,650	7/28/2017	O	7/27/2020	
4600003461	CASELLA WASTE SERVICES PO BOX 5195 POTSDAM, NY 13676 US	REFUSE SERVICES	S	B		N	N	1		400,000	84,051	84,051	315,949	4/4/2018	O	4/3/2021	
4600003467	THE INSPECTOR LLC 5390 STATE ROUTE 11 BURKE, NY 12917-2501 US	INSPECTIONS, ELECTRICAL	S	B	5	N	N	1		14,000	0	0	14,000	4/20/2018	O	4/19/2019	
4600003470	SCHWEITZER ENGINEERING LAB INC C/O ROBINSON SALES INC 100 W SIXH ST - STE 4 MEDIA, PA 19063-2433 US	SCHWEITZER OUTLINE AGREEMENT	E	B		F	N	2		500,000	14,503	14,503	485,497	5/1/2018	O	4/30/2023	
4600003471	SCHWEITZER ENGINEERING LAB INC C/O ROBINSON SALES INC 100 W SIXH ST - STE 4 MEDIA, PA 19063-2433 US	SCHWEITZER EQUIPMENT	E	B		F	N	2		750,000	108,005	108,005	641,995	5/1/2018	O	4/30/2023	
4600003508	MORRISONVILLE SEPTIC LLC DONALD RABIDEAU JR 123 RABIDEAU ST CADYVILLE, NY 12918-2709 US	SEPTIC SERVICES	S	B	5	N	01	2		30,000	1,710	1,710	28,290	8/21/2018	O	8/20/2021	
4600003542	PACKAGE ONE INDUSTRIES LLC 414 UNION ST SCHENECTADY, NY 12305-1107 US	KEYS, ROTOR, RIM AND POLE	E	B		N	N	2		967,434	0	0	967,434	10/31/2018	O	10/30/2019	
		STL TOTALS								19,904,750	12,625,042	6,395,445	7,279,708				

POWER AUTHORITY OF THE STATE OF NEW YORK
2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS
REQUIRED BY N.Y. PUBLIC AUTHORITIES LAW, SECTION 2879

Total Number of Contracts	219	
Total Contract Value		$19,904,750
Total Expended to Date		$12,625,042
Total Expended in Report Year		$6,395,445
Status Summary	Count	Contract Value
Open Contracts	45	$14,373,366
Closed Contracts	174	$5,531,384
Method of Award Summary		
Competitive Bid	200	$18,702,639
Sole Source	7	$231,758
Single Source	6	$80,949
Competitive Search	1	$760,424
MWBE/SBE	5	$128,980
Commitment Type Summary		
Architectural and Engineering Services	3	$1,527,763
Construction	2	$16,517
Equipment / Goods / Commodities	166	$15,903,193
IT Hardware	5	$150,516
IT Software	0	$0
Legal Services	0	$0
Maintenance and Outage Services	0	$0
Personal Services	0	$0
IT Consulting and Development	0	$0
Other Non-Personal Services	43	$2,306,761
Contingent Workforce	0	$0

Total Number of Contracts	3007	
Total Contract Value		$5,155,841,479
Total Expended to Date		$1,946,927,308
Total Expended in Report Year		$673,099,311
Status Summary	Count	Contract Value
Open Contracts	1395	$4,529,818,485
Closed Contracts	1612	$626,022,994
Method of Award Summary		
Competitive Bid	2408	$4,973,145,076
Sole Source	197	$31,111,161
Single Source	240	$39,932,613
Competitive Search	124	$109,302,790
MWBE/SBE	38	$2,349,839
Commitment Type Summary		
Architectural and Engineering Services	91	$124,342,015
Construction	224	$2,825,645,450
Equipment / Goods / Commodities	1351	$501,355,519
IT Hardware	61	$10,805,948
IT Software	53	$7,036,860
Legal Services	38	$29,335,581
Maintenance and Outage Services	3	$182,078,646
Personal Services	409	$485,942,349
IT Consulting and Development	6	$1,471,148
Other Non-Personal Services	725	$936,879,339
Contingent Workforce	46	$50,948,624

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FD-1990-33	Northville Industries Corp. NIC 25 Melville Park Road Melville NY 117470398	Oil Storage Agreement	E	1		N	N		15,921,525	15,921,525	581,262	0	04/01/94	O	03/31/19	
FD-1990-34	Northville Industries Corp. NIC 25 Melville Park Road Melville NY 117470398	Oil Storage Agreement	E	1		N	N		4,794,231	4,794,231	145,316	0	10/01/93	O	03/31/19	
FD-2002-11	PSEG EnergyResourcesTrade 80 Park Plaza Floor T-19 Newark NJ 07102	NAESB Agreement for Natural Gas	E	B		F	N	32	11,017,721	11,017,721	0	0	11/01/02	O	*	
FD-2003-09	J. Aron and Company 85 Broad Street New York NY 10004	NAESB Agreement for Natural Gas	E	B		N	N	32	83,241,402	83,241,402	0	0	04/22/03	O	*	
FD-2003-10	BP Energy Company 201 Helios Way Houston TX 77079	NAESB Agreement for Natural Gas	E	B		F	N	32	221,828,649	221,828,649	10,885,569	0	10/01/04	O	*	
FD-2003-12	Exelon Generation Company, LLC 1310 Point Street Baltimore MD 21231	NAESB Agreement for Natural Gas	E	B		F	N	32	55,860,651	55,860,651	0	0	06/09/03	O	*	
FD-2003-13	Merrill Lynch Commodities, Inc. 20 East Greenway Plaza Houston TX 77046	NAESB Agreement for Natural Gas	E	B		F	N	32	2,477,405	2,477,405	760,996	0	11/01/03	O	*	
FD-2003-14	Colonial Energy Inc. 3975 Fair Ridge Drive Fairfax VA 22033	NAESB Agreement for Natural Gas	E	B		F	N	32	517,760,813	517,760,813	3,416,135	0	07/01/03	O	*	
FD-2003-15	Virginia Power Energy Mktg P.O. Box 25773 Richmond VA 23260	NAESB Agreement for Natural Gas	E	B		F	N	32	629,265,426	629,265,426	0	0	07/11/03	O	*	
FD-2004-08	Shell Energy North America (US), L.P. 1000 Main Street Houston TX 77002	NAESB Agreement for Natural Gas	E	B		F	N	32	84,192,427	84,192,427	0	0	04/01/04	O	*	
FD-2005-12	NJR Energy Services Co 1415 Wyckoff Road Wall NJ 07719	NAESB Agreement for Natural Gas	E	B		F	N	32	453,726,149	453,726,149	17,916,513	0	09/01/05	O	*	
FD-2007-10	Eastern Generation, LLC 18-01 20th Avenue Astoria NY 11105	Oil Delivery Labor Fees	E	1		N	N		60,771	60,771	0	0	07/01/06	O	*	
FD-2008-05	Sequent Energy Mgmt LP 1200 Smith Street Houston TX 77002	NAESB Agreement for Natural Gas	E	B		F	N	32	38,043,192	38,043,192	1,447,531	0	03/01/08	O	*	
FD-2008-06	Macquarie Energy LLC 500 Dallas Street Houston TX 77002	NAESB Agreement for Natural Gas	E	B		F	N	32	47,096,447	47,096,447	0	0	07/01/08	O	*	
FD-2008-09	Con Edison 4 Irving Place New York NY 10003	LDC Agreement	E	1		N	N		26,446,093	26,446,093	290,328	0	08/01/08	O	06/30/19	
FD-2008-10	United Energy Trading, LLC 215 Union Boulevard Lakewood CO 80228	NAESB Agreement for Natural Gas	E	B		F	N	32	159,002,299	159,002,299	656,979	0	11/19/08	O	*	
FD-2009-07	Conoco Phillips Company 600 North Dairy Ashford Houston TX 77079	NAESB Agreement for Natural Gas	E	1		F	N	32	45,657,531	45,657,531	1,922,242	0	05/01/09	O	*	
FD-2009-08	NextEra Energy Power Marketing, LLC 700 Universe Blvd Juno Beach FL 33408	NAESB Agreement for Natural Gas	E	B		F	N	32	15,815,177	15,815,177	5,661,342	0	12/01/09	O	*	

CONTRACT NUMBER	PROVIDER NAME	CONTRACT DESCRIPTION	TYPE	MOA	RNA	OPA	MWBE	BIDS	TOTAL CONTRACT AMOUNT	TOTAL EXPENDED TO DATE	AMOUNT EXPENDED 2018	CONTRACT BALANCE	DATE OF CONTRACT	O\C	PROJ COMPLETE DATE	DATE CONTRACT COMPLETE
FD-2010-02	ENSTOR Energy Services, LLC 20329 State Highway 249 Houston TX 77070	NAESB Agreement for Natural Gas	E	B		F	N	32	34,431,432	34,431,432	16,450,758	0	08/09/10	O	*	
FD-2011-06	EDF Trading North America, LLC 4700 West Sam Houston Houston TX 77041	NAESB Agreement for Natural Gas	E	B		F	N	32	199,573,999	199,573,999	5,845,226	0	06/01/11	O	*	
FD-2011-10	Tenaska Gas Storage, LLC 14302 FNB Parkway Omaha NE 68154	NAESB Agreement for Natural Gas	E	B		F	N	32	1,251,315	1,251,315	0	0	12/01/11	O	*	
FD-2011-11	Statoil Natural Gas, LLC 120 Long Ridge Road Stamford CT 06902	NAESB Agreement for Natural Gas	E	B		F	N	32	18,684,302	18,684,302	0	0	04/18/12	O	*	
FD-2012-02	Repsol Energy North America Corporation 2455 Technology Forest Rd The Woodlands TX 77381	NAESB Agreement for Natural Gas	E	B		F	N	32	39,018,070	39,018,070	819,260	0	11/13/12	O	*	
FD-2013-06	Chesapeake Energy Marketing, LLC P.O. Box 18496 Oklahoma City OK 73154-0496	NAESB Agreement for Natural Gas	E	B		F	N	32	47,625,653	47,625,653	10,017,445	0	05/28/13	O	*	
FD-2014-08	Spark Energy Gas, LLC 12140 Wickchester Lane Houston TX 77079	NAESB Agreement for Natural Gas	E	B		F	N	32	314,263,845	314,263,845	33,325,139	0	02/01/14	O	*	
FD-2014-12	EQT Energy, LLC 625 Liberty Ave Pittsburgh PA 15222-3111	NAESB Agreement for Natural Gas	E	B		F	N	32	455,883	455,883	311,352	0	05/01/14	O	*	
FD-2014-16	Pacific Summit Energy LLC 2010 Main Street Irvine CA 92614	NAESB Agreement for Natural Gas	E	B		F	N	32	56,247,923	56,247,923	9,614,638	0	08/11/14	O	*	
FD-2015-03	Cabot Oil & Gas Corporation 840 Gessner Road Houston TX 77024-4152	NAESB Agreement for Natural Gas	E	B		F	N	32	2,439,304	2,439,304	0	0	03/02/15	O	*	
FD-2015-05	DTE Energy Trading, Inc. 414 South Main Street Ann Arbor MI 48104	NAESB Agreement for Natural Gas	E	B		F	N	32	60,395,926	60,395,926	22,297,012	0	08/14/15	O	*	
FD-2015-07	Definite Energy Group 575 Lexington Ave New York NY 10022	NAESB Agreement for Natural Gas	E	B		N	N	32	385,895	385,895	0	0	10/01/15	O	*	
FD-2015-10	Direct Energy Business Marketing, LLC 194 Wood Ave South Iselin NJ 08830	NAESB Agreement for Natural Gas	E	B		F	3	32	1,264,148	1,264,148	108,090	0	12/14/15	O	*	
FD-2016-01	Saybolt LP P.O. Box 844640 Dallas TX 752844640	Oil Inspection Agreement	P	B		N	N		22,224	22,224	13,219	0	01/01/17	O	12/31/19	
FD-2016-02	Astoria Energy II LLC 1710 Steinway Street Astoria NY 11105	AEII Demand Charges	E	1		N	N		16,094	16,094	5,264	0	05/01/16	O	04/30/19	
FD-2016-05	Transco P.O. BOX 201371 Houston TX 77216	Firm Gas Transportation Agreement	E	1		F	N		1,173,626	1,173,626	0	0	04/01/17	C		03/31/18
FD-2016-07	National Grid - LI 100 East Old Country Road Hicksville NY 11801	LDC Agreement (Flynn)	E	1		N	N		2,907,027	2,907,027	1,939,495	0	04/01/17	O	3/31/2019*	
FD-2017-01	National Grid - NY 1 Metrotech Centre Brooklyn NY 11201	LDC Agreement(G/K/P)	E	1		N	N		1,763,231	1,763,231	0	0	06/01/17	C		05/31/18

CONTRACT NUMBER	PROVIDER NAME	CONTRACT DESCRIPTION	TYPE	MOA	RNA	OPA	MWBE	BIDS	TOTAL CONTRACT AMOUNT	TOTAL EXPENDED TO DATE	AMOUNT EXPENDED 2018	CONTRACT BALANCE	DATE OF CONTRACT	O\C	PROJ COMPLETE DATE	DATE CONTRACT COMPLETE
FD-2017-02	National Grid - LI 100 East Old Country Road Hicksville NY 11801	LDC Agreement (Brentwood)	E	1		N	N		757,436	757,436	0	0	06/01/17	C		05/31/18
FD-2018-01	George E. Warren Corp 3001 Ocean Drive Vero Beach FL 32963	Oil Letter Contract	E	B		F	N		5,179,724	5,179,724	5,179,724	0	01/05/18	C		01/05/18
FD-2018-03	Apex Oil 8235 Forsyth Blvd. Saint Louis MO 63105	Oil Letter Contract	E	B		F	N		4,343,630	4,343,630	4,343,630	0	01/02/18	C		01/07/18
FD-2018-04	Apex Oil 8235 Forsyth Blvd. Saint Louis MO 63105	Oil Letter Contract	E	B		F	N		4,529,343	4,529,343	4,529,343	0	01/09/18	C		01/11/18
FD-2018-05	Apex Oil 8235 Forsyth Blvd. Saint Louis MO 63105	Oil Letter Contract	E	B		F	N		4,544,427	4,544,427	4,544,427	0	01/12/18	C		01/18/18
FD-2018-06	George E. Warren Corp 3001 Ocean Drive Vero Beach FL 32963	Oil Letter Contract	E	B		F	N		4,289,943	4,289,943	4,289,943	0	01/19/18	C		01/27/18
FD-2018-07	Astoria Energy II LLC 1710 Steinway Street Astoria NY 11105	AEII Spill Tax Reimbursement	E	1		F	N		12,341	12,341	12,341	0	12/10/18	O	*	
FD-2018-12	Transco P.O. BOX 201371 Houston TX 77216	Firm Gas Transportation Agreement	E	1		F	N		1,549,743	1,549,743	1,549,743	0	05/01/18	O	05/01/19	
FD-2018-13	Engie Energy Marketing NA, Inc. 1990 Post Oak Blvd Houston TX 77058	NAESB Agreement for Natural Gas	E	B		F	N	34	3,015,267	3,015,267	3,015,267	0	04/12/18	O	*	
FD-2018-16	National Grid - NY 1 Metrotech Centre Brooklyn NY 11201	LDC Agreement(G/K/P)	E	1		N	N		2,609,450	2,609,450	2,609,450	0	06/01/18	O	05/31/19	
FD-2018-17	National Grid - LI 100 East Old Country Road Hicksville NY 11801	LDC Agreement (Brentwood)	E	1		N	N		1,327,748	1,327,748	1,327,748	0	06/01/18	O	05/31/19	
FD-2018-20	Freepoint Commodities LLC 58 Commerce Road Stamford CT 06902	NAESB Agreement for Natural Gas	E	B		F	N	32	1,660,810	1,660,810	1,660,810	0	06/28/18	O	*	
FD-2018-21	Penn Oak Services, LLC 1815 Sudbury Rd NW Washington DC 20012	NAESB Agreement for Natural Gas	E	B		F	N	32	717,268	717,268	717,268	0	07/19/18	O	*	
FD-2018-22	George E. Warren Corp 3001 Ocean Drive Vero Beach FL 32963	Oil Letter Contract	E	B		F	N		60,224	60,224	60,224	0	11/14/18	C		11/26/18
FD-2018-23	George E. Warren Corp 3001 Ocean Drive Vero Beach FL 32963	Oil Letter Contract	E	B		F	N		38,243	38,243	38,243	0	12/03/18	C		12/10/18
FD-2018-24	George E. Warren Corp 3001 Ocean Drive Vero Beach FL 32963	Oil Letter Contract	E	B		F	N		38,330	38,330	38,330	0	12/03/18	C		12/10/18
		FUELS TOTALS							3,228,801,733	3,228,801,733	178,347,602	0				

NOTE:

* Contract continues until terminated by NYPA or Counterparty upon specified notice.

POWER AUTHORITY OF THE STATE OF NEW YORK
2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS
REQUIRED BY N.Y. PUBLIC AUTHORITIES LAW, SECTION 2879

Total Number of Contracts	52	
Total Contract Value		$3,228,801,733
Total Expended to Date		$3,228,801,733
Total Expended in Report Year		$178,347,602
Status Summary	Count	Contract Value
Open Contracts	41	$0
Closed Contracts	11	$0
Method of Award Summary		
Competitive Bid	38	$3,123,804,886
Sole Source	14	$104,996,847
Single Source	0	$0
Competitive Search	0	$0
MWBE/SBE	0	$0
Commitment Type Summary		
Architectural and Engineering Services	0	$0
Construction	0	$0
Equipment / Goods / Commodities	51	$3,228,779,509
IT Hardware	0	$0
IT Software	0	$0
Legal Services	0	$0
Maintenance and Outage Services	0	$0
Personal Services	1	$22,224
IT Consulting and Development	0	$0
Other Non-Personal Services	0	$0
Contingent Workforce	0	$0

POWER AUTHORITY OF THE STATE OF NEW YORK
2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS
REQUIRED BY N.Y. PUBLIC AUTHORITIES LAW, SECTION 2879

PROVIDER NAME	CONTRACT DESCRIPTION	TYPE	MOA	RNA	OPA	MWBE	BIDS	TOTAL CONTRACT AMOUNT	TOTAL EXPENDED TO DATE	AMOUNT EXPENDED 2018	CONTRACT BALANCE	DATE OF CONTRACT	O \ C	PROJ COMPLETE DATE	DATE CONTRACT COMPLETE
Bank of New York (formerly JPMorgan) 101 Barclay Street New York, NY 10286	Trustee/Paying Agent Services on Bonds	S	C	9	N			540,988	540,988	25,757	0	2/24/1998	O	*	
Bank of New York (formerly JPMorgan) 101 Barclay Street New York, NY 10286	Trustee- Commercial Paper	S	C	9	N			242,388	242,388	12,781	0	10/2/2006	O	*	
Barclays Capital (assigned from Lehman Bros.) ** 745 Seventh Avenue New York, NY 10019	Re-marketing Agent CP-1	S	C	9	N			1,974,099	1,974,099	81,829	0	7/14/1994	O	*	
Barclays Capital (assigned from Lehman Bros.) 745 Seventh Avenue New York, NY 10019	Re-marketing Agent CP-3	S	C	9	N			10,775	10,775	0	0	6/26/2008	O	*	
Citigroup 390 Greenwich Street New York, NY 10013	Re-marketing Agent CP-2	S	C	9	N			1,152,523	1,152,523	57,210	0	12/4/1997	O	*	
Goldman, Sachs & Co. 85 Broad Street New York, NY 10004-2456	Re-marketing Agent CP-2 and 3	S	C	9	N			1,150,376	1,150,376	42,531	0	12/4/1997	O	*	
Goldman, Sachs & Co. 85 Broad Street New York, NY 10004-2456	Re-marketing EMCP	S	C	9	N			946,998	946,998	5,485	0	3/4/2003	O	*	
JPMorgan Chase 270 Park Avenue New York, NY 10017-2070	Re-marketing Agent CP-2	S	C	9	N			381,615	381,615	54,212	0	6/28/2001	O	*	
JPMorgan Chase 270 Park Avenue New York, NY 10017-2070	Re-marketing Agent CP-3	S	C	9	N			654,426	654,426	12,821	0	12/4/1997	O	*	
JPMorgan Chase 270 Park Avenue New York, NY 10017-2070	Escrow Agent POCR/CASP & LMEI Funds	S	C	9	N			575,624	575,624	16,780	0	5/30/1996	O	*	
JPMorgan Chase 270 Park Avenue New York, NY 10017-2070	Revolving Line of Credit 2015	S	C	9	N		2	9,413,666	9,413,666	2,575,000	0	1/15/2015	O	1/19/2019	
Morgan Stanley 1221 Avenue of the Americas New York, NY 10020	Re-marketing Agent CP-1	S	C	8	N		7	480,487	480,487	29,944	0	3/31/2009	O	*	
RBC Capital Markets ** 1211 Avenue of the Americas New York, NY 10036	Re-marketing Agent CP-1	S	C	9	N			787,806	787,806	59,501	0	7/14/1994	O	*	
	FINANCE TOTALS							18,311,771	18,311,771	2,973,851	0				

NOTES:

* Contract continues until terminated by NYPA or Counterparty upon specified notice

** Expense History only available from 1997

POWER AUTHORITY OF THE STATE OF NEW YORK
2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS
REQUIRED BY N.Y. PUBLIC AUTHORITIES LAW, SECTION 2879

Total Number of Contracts	13	
Total Contract Value		$18,311,771
Total Expended to Date		$18,311,771
Total Expended in Report Year		$2,973,851
Status Summary	Count	Contract Value
Open Contracts	13	$18,311,771
Closed Contracts	0	$0
Method of Award Summary		
Competitive Bid	0	$0
Sole Source	0	$0
Single Source	0	$0
Competitive Search	13	$18,311,771
MWBE/SBE	0	$0
Commitment Type Summary		
Architectural and Engineering Services	0	$0
Construction	0	$0
Equipment / Goods / Commodities	0	$0
IT Hardware	0	$0
IT Software	0	$0
Legal Services	0	$0
Maintenance and Outage Services	0	$0
Personal Services	0	$0
IT Consulting and Development	0	$0
Other Non-Personal Services	13	$18,311,771
Contingent Workforce	0	$0

POWER AUTHORITY OF THE STATE OF NEW YORK
2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS
REQUIRED BY N.Y. PUBLIC AUTHORITIES LAW, SECTION 2879

Total Number of Contracts	3072	
Total Contract Value		$8,402,954,983
Total Expended to Date		$5,194,040,812
Total Expended in Report Year		$854,420,764
Status Summary	Count	Contract Value
Open Contracts	1449	$4,548,130,256
Closed Contracts	1623	$626,022,994
Method of Award Summary		
Competitive Bid	2446	$8,096,949,962
Sole Source	211	$136,108,008
Single Source	240	$39,932,613
Competitive Search	137	$127,614,561
MWBE/SBE	38	$2,349,839
Commitment Type Summary		
Architectural and Engineering Services	91	$124,342,015
Construction	224	$2,825,645,450
Equipment / Goods / Commodities	1402	$3,730,135,028
IT Hardware	61	$10,805,948
IT Software	53	$7,036,860
Legal Services	38	$29,335,581
Maintenance and Outage Services	3	$182,078,646
Personal Services	410	$485,964,573
IT Consulting and Development	6	$1,471,148
Other Non-Personal Services	738	$955,191,110
Contingent Workforce	46	$50,948,624

Company Policy Title:

Policy Number:

NEW YORK STATE OF OPPORTUNITY. | NY Power Authority

NYPA Expenditure Authorization Procedures

CP 3-3

Revision Date(For BCG Use Only)	Revision #	Description/Modification	Revision Section (s)	Author
	0	Per the By-Laws of the Power Authority of the State of New York, Article VII, Section 5, the EAPs were adopted by resolution and are reviewed annually and approved (by the Trustees). Updates proposed for clarity and ease of use.	N/A	Diane Gil, Senior Director, Procurement Governance & Analytics Center of Excellence

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EXPENDITURE AUTHORIZATION PROCEDURES

1. Purpose

These Expenditure Authorization Procedures ("EAPs") set forth the policy of the New York Power Authority ("NYPA") regarding approval authority applicable to requisitions for Procurement and Non-Procurement Contracts and the execution of contract documents. These EAPs govern purchasing activities as defined in NYPA's Guidelines for Procurement Contracts ("Procurement Guidelines"). Certain contracts such as financial contracts, fuel contracts and contracts concerning the sale of energy have separate and distinct authorization guidelines and are not covered under these EAPs.

2. Definitions

A. "**Procurement Contracts**" are fully defined in the Procurement Guidelines and include contracts for the acquisition of goods or services necessary to support NYPA's offices and operations in the actual or estimated amount of five thousand dollars or more.

B. "**Non-Procurement Contracts**" are fully defined in the Procurement Guidelines and include contracts for energy, capacity, ancillary services, transmission, distribution or related services in support of providing service to NYPA customers, contracts for differences, financial hedge contracts and credit rating services. Additionally, Non-Procurement Contracts include contracts for the direct placement of advertisements, subscriptions, fees or tuition, funding agreements, grants, memberships, etc, as more fully set forth in the Procurement Guidelines.

C. "**Personal Service Contracts**" are procurement contracts for services of a consulting, professional or technical nature provided by outside consultants/contractors for a fee or other compensation which include, but are not limited to, accounting, architectural, engineering, financial advisory, legal, public relations, planning, management consulting, surveying, training (when specifically developed by a consultant for NYPA) and construction management contracts.

D. "**Low Bidder**" generally refers to a contract award recommendation or award on the basis of being the lowest priced qualified bidder submitting a proposal that meets the commercial and technical requirements of the bid documents.

E. "**Best Value**" generally refers to a contract award recommendation or award of a contract for services on the basis of optimum quality, cost and efficiency among commercially and technically qualified responsive and responsible offerors.

F. "**Single Source**" refers to a procurement in which NYPA, upon written findings setting forth material and substantial reasons, may award a contract (or amendment to a contract) to one offeror over another that can supply the goods or services.

G. "**Sole Source**" refers to a procurement in which only one offeror is capable of supplying the required goods and services.

H. "**Non-competitive**" refers to a procurement, as more fully set forth in the Procurement Guidelines, in which a contract award recommendation or award is not made on the basis of being the Low Bidder or Best Value, nor is it awarded on a Single Source or Sole Source basis.

For a more detailed and full listing of definitions, including definitions for non-personal services, construction, equipment and non-procurement contracts, please refer to the Procurement Guidelines. All Single / Sole Source or Non-competitive award required written justification and approval by the VP, SSM at a minimum (also refer to the Guidelines for Procurement Contracts Sections 3.H. N., and O.)

EXPENDITURE AUTHORIZATION PROCEDURES

APPROVAL LIMITS APPLICABLE TO REQUISITIONS FOR PROCUREMENT AND NON-PROCUREMENT CONTRACTS WITH THE EXCEPTION OF PERSONAL SERVICES CONTRACTS

	AWARD BASIS IS: LOW BIDDER or BEST VALUE [1]		AWARD BASIS IS: NON-COMPETITIVE, SOLE or SINGLE SOURCE			CUMULATIVE CHANGE ORDER LIMIT [2]	
FIRST LINE SUPERVISOR / SITE ENGINEER	TO	$5,000	TO	$5,000		TO	$5,000
SENIOR CONSTRUCTION ENGINEER or SENIOR ON-SITE NYPA EMPLOYEE	TO	$25,000	TO	$25,000		TO	$25,000
FACILITY SUPERINTENDENT, MANAGER or SENIOR MANAGER	TO	$100,000	TO	$50,000		TO	$50,000
PROJECT MANAGER, PROGRAM MANAGER DIRECTOR or SENIOR DIRECTOR	TO	$500,000	TO	$250,000		TO	$125,000
REGIONAL MANAGER	TO	$1,000,000	TO	$500,000		TO	$250,000
VICE PRESIDENT	TO	$2,000,000	TO	$750,000		TO	$500,000
SENIOR VICE PRESIDENT	TO	$3,000,000	TO	$1,000,000	[3]	TO	$1,000,000
CHAIR, PRESIDENT or EXECUTIVE VICE PRESIDENT	TO	$6,000,000	TO	$6,000,000		TO	$6,000,000
TRUSTEES [4]	OVER	$6,000,000	OVER	$6,000,000		OVER	$6,000,000

(1) **"Low Bidder or Best Value" approval limits also apply to Individual Purchase Order Releases (PORs) from active Value Contracts, up to the EVP approval level. An EVP can approve PORs up to the full authorization amount of a Value Contract.**

(2) **Subject to 25% rule - see page 5. Cumulative Change Order limits apply when the original authorized amount of a value contract or Purchase Order has been exceeded. The original authorized aggregate approved value applies when there are multiple contract awards.**

(3) **Single and Sole Source Contracts valued or estimated at $1 million or greater require review for approval by the NYS Comptroller. Change Orders (competitively bid or non-competitively bid) valued or estimated at $1 million or greater or which change the overall value of a contract to $1 million or greater require NYS Comptroller notification.**

(4) **Trustees' approval is also required when:**

- **A. The term of a Non-Personal Services or Construction contract including any extensions or options, exceeds 1 year.**
- **B. The initial term of less than 1 year for Non-Personal Services or Construction contracts extends beyond 1 year.**
- **C. Cumulative Change Orders exceed $6 million.**

EXPENDITURE AUTHORIZATION PROCEDURES

APPROVAL LIMITS APPLICABLE TO REQUISITIONS FOR PERSONAL SERVICES CONTRACTS

IF LESS THAN 1 YEAR AND AWARD BASIS IS:

	LOW BIDDER or BEST VALUE [1]		NON-COMPETITIVE, SOLE or SINGLE		CUMULATIVE CHANGE ORDER LIMIT [2]	
FACILITY SUPERINTENDENT, MANAGER or SENIOR MANAGER,	TO	$50,000	TO	$25,000	TO	$25,000
PROJECT MGR., PROGRAM MGR., DIRECTOR or SENIOR DIRECTOR	TO	$100,000	TO	$50,000	TO	$50,000
REGIONAL MANAGER	TO	$200,000	TO	$100,000	TO	$50,000
VICE PRESIDENT	TO	$500,000	TO	$250,000	TO	$125,000
SENIOR VICE PRESIDENT	TO	$1,000,000	TO	$500,000	TO	$250,000
CHAIR, PRESIDENT or EXECUTIVE VICE PRESIDENT	TO	$2,000,000	TO	$1,000,000	TO	$500,000
TRUSTEES [3]	OVER	$2,000,000	OVER	$1,000,000	OVER	$500,000

(1) **"Low Bidder or Best Value" approval limits also apply to Individual Purchase Order Releases (PORs) from active Value Contracts, up to the EVP approval level. An EVP can approve PORs up to the full authorization amount of a Value Contract.**

(2) **Subject to 25% rule - see page 5. Cumulative Change Order limits apply when the original authorized amount of a value contract or Purchase Order has been exceeded. The original authorized aggregate approved value applies when there are multiple contract awards.**

(3) **Trustees' approval is also required when:**

- **A. The term of a Personal Services contract, including any extensions or options, exceeds 1 year.**
- **B. The initial term of less than 1 year for a Personal Services contract extends beyond 1 year.**
- **C. Cumulative Change Orders exceed $500,000.**

EXPENDITURE AUTHORIZATION PROCEDURES

LIMITS FOR EXECUTION OF CONTRACT DOCUMENTS [1]

OPERATING FACILITIES:			LIMIT:
FACILITY PURCHASING STAFF or FLEET CLERK	Procurement Contracts	TO	$5,000
SENIOR SITE BUYER	"	TO	$25,000
SITE MANAGER	"	TO	$100,000
REGIONAL MANAGER or DESIGNEE	"	TO	$500,000
HEADQUARTERS:			
STRATEGIC / TRANSACTIONAL BUYER – SSM [2]	Procurement Contracts	TO	$50,000
SENIOR STRATEGIC BUYER – SSM	"	TO	$250,000
CATEGORY MANAGER – SSM	"	TO	$500,000
DIRECTOR – SSM	"	TO	$750,000
SENIOR DIRECTOR – SSM	"	TO	$1,000,000
VP – SSM[4]	"	TO	$20,000,000
CHAIR, PRESIDENT or EVP	"	OVER	$20,000,000
VP – ENTERPRISE SHARED SERVICES	Real Estate Transactions	TO	$3,000,000
SVP – HR & ENTERPRISE SHARED SERVICES	Real Estate/Fleet Transactions	TO	$5,000,000
VP – CLEAN ENERGY BUSINESS & MARKET DEVELOPMENT	CIC/CPC[3]	TO	$2,000,000
EVP AND CHIEF COMMERCIAL OFFICER	CIC/CPC[3]	OVER	$2,000,000

(1) **All delegations of authority must be in writing.**
(2) **Strategic Supply Management (SSM).**
(3) **CIC/CPC = Customer Installation Commitments / Customer Project Commitments. These authorizations apply to the CIC's / CPC's initiating a project, and the settlement of such projects.**
(4) **Certain contract documents, specifically Letters of Intent and Notices to Proceed, require the authorization of the VP, SSM.**

CHANGE ORDER APPROVALS AND REBIDDING THRESHOLDS

1. A) For contracts with initially approved amounts of **$100,000 or less,** rebidding will occur when the total cumulative value of change orders exceeds $25,000.

   B) **If rebidding is not feasible,** any request to increase funding for such contracts must be supported by a memorandum explaining the need for additional funding in excess of the original amount approved. The memorandum shall be approved in accordance with the cumulative change order limits set forth on Pages 2 and 3 and forwarded to the NYPA VP, Strategic Supply Management (SSM) for review and final approval.

2. A) For contracts with initially approved amounts **exceeding $100,000,** rebidding will occur when the total cumulative value of change orders exceeds 25% of the original amount approved.

   B) **If rebidding is not feasible,** any request to increase funding for such contracts must be supported by a memorandum explaining the need for additional funding in excess of original amount approved. The memorandum shall be approved in accordance with the cumulative change order limits set forth on Pages 2 and 3 and forwarded to the NYPA VP, SSM for review and approval. Cumulative change orders exceeding 25% of the original contract amount or exceeding $500K for personal services contracts or exceeding $6 million for procurement and non-procurement contracts (whichever is greater), require Trustee approval. The memorandum shall be signed in accordance with the cumulative change order limits set forth on Pages 2 and 3 and forwarded to the NYPA VP, SSM for review, followed by transmittal to the NYPA President, Chairman or Chief Operating Officer for approval, prior to obtaining Trustee approval.

3. Rebidding should commence as soon as it is recognized that the contract value will exceed these thresholds, even if the term of the contract is not complete.

4. Once the approval of such additional funding is received from the Trustees, any subsequent increase in funding requires an additional memorandum for the approval of the Chair or Executive Vice President, until either the Trustees' approval is obtained or the contract is rebid.

5. Typical bases for additional funding include an "emergency condition" (as defined in the Authority's Guidelines for Procurement Contracts) which necessitates the additional funding; and a situation where it is impractical to rebid (e.g., a construction project where it would not be reasonable to change contractors or other reasons as provided for in the Authority's Guidelines for Procurement Contracts). Under-estimating the scope of a contract or failure to rebid in a timely fashion are not acceptable reasons for increased funding.

Exhibit A
March 26, 2019

GUIDELINES

AND

PROCEDURES

FOR THE

DISPOSAL OF NEW YORK POWER AUTHORITY

REAL PROPERTY

INDEX

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GUIDELINES AND PROCEDURES FOR THE DISPOSAL OF NEW YORK POWER AUTHORITY REAL PROPERTY

I. PURPOSE

The purpose of these Guidelines and Procedures for the Disposal of Real Property ("Guidelines"), which comply with Title 5-A, Article 9 of the Public Authorities Law, is to establish the procedures that detail the Authority's policy and instructions regarding the disposal of real property. In addition, the Guidelines designate a Contracting Officer who is responsible for the Authority's compliance with, and enforcement of, the Guidelines.

II. DEFINITIONS

2.1 "Contracting Officer" shall mean the officer or employee of the Authority who shall be appointed by resolution of the Authority's Trustees to be responsible for enforcement of the Guidelines for the Disposal of Real Property. The "Contracting Officer" is hereby designated to be the Vice President – Enterprise Shared Services, or equivalent(s) or designee.

2.2 "Dispose" or "Disposal" shall mean transfer of title or any other beneficial interest in real property in accordance with these Guidelines. Disposal does not include a release of an easement, Permit or Transfer of Jurisdiction.

2.3 "Fair Market Value" shall mean the estimated dollar amount that a willing buyer would pay to a willing seller for the Real Property in an arms-length transaction in the appropriate marketplace and under similar circumstances.

2.4 "Permits" shall mean permits issued by the Authority that grant revocable privileges to use or access real property under the jurisdiction of the Authority. Permits may be issued where the real property is not presently required for Authority purposes, but held for future use in carrying out its corporate purposes. Permits do not transfer a beneficial interest in real property. Permits are revocable, in part to assure availability upon demand of the real property for Authority purposes.

2.5 "Real Property" shall mean real property, including land, tenements and hereditaments owned by the Authority, and any other interest in such real property, to the extent that such interest may be conveyed to another person or entity for any purpose, excluding an interest securing a loan or other financial obligation of another party.

2.6 "Relative" shall mean any person living in the same household as the Authority employee or any person who is a direct descendant of the Authority employee's grandparents or the spouse of such descendant.

2.7 "Transfers of Jurisdiction" shall mean transactions pursuant to Public Lands Law §3(4) and which are between the Authority and other State governmental entities where jurisdiction over Real Property is transferred and reassigned on such terms and conditions as the Authority and the New York State Office of General Services deem proper, but the title to the Real Property remains in the name of the People of the State of New York.

III. COMPLIANCE OVERVIEW

The Public Authorities Law ("PAL") requires the Authority to establish policy guidelines to accomplish the following:

3.1 Maintain inventory controls and accountability systems for all Real Property under the Authority's control.

3.2 Periodically inventory Authority Real Property to determine which Real Property shall be disposed of.

3.3 Dispose of Authority Real Property interests in accordance with the PAL.

3.4 Prepare annual reports of Real Property Disposal transactions.

IV. DUTIES OF THE MANAGER CORPORATE REAL ESTATE

4.1 The Manager Corporate Real Estate or equivalent(s) or designee shall maintain adequate inventory controls and accountability systems for all Real Property under the Authority's control.

4.2 The Manager Corporate Real Estate or equivalent(s) or designee shall periodically inventory Authority Real Property to determine which Authority Real Property shall be Disposed of and shall prepare a report identifying such Real Property for Disposal.

4.3 The Manager Corporate Real Estate or equivalent(s) or designee shall produce for publishing written reports of such Real Property as set forth in Article VI of these Guidelines.

4.4 The Manager Corporate Real Estate or equivalent(s) or designee shall arrange for the Disposal of any Real Property identified for Disposal by the Authority in accordance with these Guidelines and the Authority's Expenditure Authorization Procedures and as soon as reasonably practical under the circumstances.

V. PROCEDURES FOR THE DISPOSITION OF AUTHORITY REAL PROPERTY

5.1 The Authority may Dispose of Real Property for not less than the Fair Market Value of such Real Property by sale, exchange, or transfer, for cash, credit or other property, without warranty, and upon such other terms and conditions as the Contracting Officer deems proper under the provisions of the PAL and as implemented by these Guidelines. Fair Market Value of the Authority Real Property subject to Disposal shall be established by independent appraisal as appropriate and consistent with the intent of the PAL. Such appraisal documents shall be included in the record of the Real Property Disposal transaction.

5.2 Except as set forth in Section 5.3 of the Guidelines, any Disposal of Real Property shall only be made after publicly advertising for bids in accordance with the following:

5.2.1 the advertisement for bids shall be made at such time prior to the Disposal or contract, through such methods, and on such terms and conditions as shall permit full and free competition consistent with the value and nature of the Real Property;

5.2.2 all bids shall be publicly disclosed at the time and place stated in the advertisement; and

5.2.3 the award shall be made with reasonable promptness by notice to the responsible bidder whose bid, conforming to the invitation for bids, will be most advantageous to the Authority, price and other factors considered; provided, that all bids may be rejected when it is in the public interest to do so.

5.3.a The Disposal of Authority Real Property may be negotiated or made by public auction without regard to Section 5.2 but subject to obtaining such competition as is feasible under the circumstances, if:

1. the Fair Market Value of the Real Property does not exceed fifteen thousand dollars ($15,000.00); or

2. bid prices after advertising therefore are not reasonable, either as to all or some part of the Real Property, or have not been independently arrived at in open competition; or

3. the Disposal will be to the state or any political subdivision, and the estimated Fair Market Value of the Real Property and other satisfactory terms of Disposal are obtained by negotiation; or

4. under those circumstances permitted by Section 5.3; or

5. such action is otherwise authorized by law.

5.3.b.1 No Real Property owned, leased or otherwise in the control of the Authority may be sold, leased, or otherwise alienated for less than its Fair Market Value except if:

a. the transferee is a government or other public entity, and the terms and conditions of the transfer require that the ownership and use of the Real Property will remain with the government or any other public entity;

b. the purpose of the transfer is within the purpose, mission or governing statute of the Authority; or

c. in the event the Authority seeks to transfer Real Property for less than its Fair Market Value to other than a governmental entity, which Disposal would not be consistent with the Authority's mission, purpose or governing statutes, the Authority shall provide written notification thereof to the Governor, the Speaker of the Assembly, and the Temporary President of the Senate, and such proposed transfer shall be subject to denial by the Governor, the Senate, or the Assembly. Denial by the Governor shall take the form of a signed certification by the Governor. Denial by either House of the Legislature shall take the form of a resolution by such House. The Governor and each House of the Legislature shall take any such action within sixty days of receiving notification of such proposed transfer during the months of January through June, provided that if the Legislature receives notification of a proposed transfer during the months of July through December, the Legislature may take any such action within sixty days of January first of the following year. If no such resolution or certification is performed within sixty days of such notification of the proposed transfer to the Governor, Senate, and Assembly, the Authority may effectuate such transfer.

5.3.b.2. In the event a below Fair Market Value Real Property transfer is proposed, the following information must be provided to the Authority’s Board of Trustees and the public:

a. a full description of the Real Property;

b. an appraisal of the Fair Market Value of the Real Property and any other information establishing the Fair Market Value sought by the Authority's Board of Trustees;

c. a description of the purpose of the transfer, and a reasonable statement of the kind and amount of the benefit to the public resulting from the transfer, including but not limited to the kind, number, location, wages or salaries of jobs created or preserved as required by the transfer, the benefits, if any, to the communities in which the Real Property is situated as are required by the transfer;

d. a statement of the value to be received compared to the Fair Market Value;

e. the names of any private parties participating in the transfer, and if different than the statement required by subparagraph (iv) of this paragraph, a statement of the value to the private party; and

f. the names of other private parties who have made an offer for such Real Property, the value offered, and the purpose for which the Real Property was sought to be used.

5.3.b.3. Before approving the Disposal of any Real Property for less than Fair Market Value, the Authority's Board of Trustees shall consider the information described in Paragraph 5.3.b.2 and make a written determination that there is no reasonable alternative to the proposed below-market transfer that would achieve the same purpose of such transfer.

5.4 An explanatory statement detailing the Disposal by negotiation of Authority Real Property subject to the PAL as set forth in Section 5.3 shall be made for any Disposal of:

5.4.1 Real Property with a Fair Market Value in excess of one hundred thousand dollars ($100,000.00) except that Real Property Disposed of by lease or exchange shall only be subject to 5.4.2 of this Section 5.4;

5.4.2 Real Property Disposed of by lease if the fair annual rent over the term of the lease is in excess of fifteen thousand dollars ($15,000.00); and

5.4.3 Any Real Property or real and related personal property Disposed of by exchange, regardless of value, or any property any part of the consideration is for Real Property:

5.5 Each explanatory statement prepared in accordance with Section 5.4 above shall be transmitted to the State Comptroller, the Director of the Division of the Budget, the Commissioner of General Services, the State Legislature and the State Authorities Budget Office not less than 90 days in advance of such Disposal, and a copy shall be kept by the Authority.

5.6 In the Authority's discretion, when it shall be deemed advantageous to the Authority and the State, the Authority may enter into an agreement with the Office of the Commissioner of General Services ("OGS") under which OGS may Dispose of the Authority's Real Property under terms and conditions agreed to by the Authority and the OGS. In Disposing of any such Real Property of the Authority, the OGS shall be bound by the relevant provisions of the PAL.

5.7 The Manager Corporate Real Estate or equivalent(s) or designee shall provide all relevant documentation to the Environmental Division for the purposes of determining, if applicable, whether the Disposal of Real Property is in compliance with the State Environmental Quality Review Act, and for whether it adheres to the American Society of Testing and Material's guidelines for Environmental Site Assessments, if applicable.

5.8 No Authority employee who is involved in the award of Authority grants or contracts, may ask any purchaser(s), grantor(s), lessor(s) or officer(s), director(s) or employee(s) of such current or prospective purchaser(s), contractor(s) or grantee(s) to reveal: (a) the political party affiliation of the individual; (b) whether the individual or entity has made campaign contributions to any political party,

elected official, or candidate for elective office; or (c) whether the individual voted for or against any political party, elected official or candidate for elective office.

5.9 No Authority employee may award or decline to award any grant or contract, or recommend, promise or threaten to do so because of a current or prospective grantee's or contractor's: (a) refusal to answer any inquiry prohibited by Section 5.8 above or (b) giving or withholding or neglecting to make any contribution of money, service or any other valuable thing for any political purpose.

5.10 No Authority employee may take part in any contracting decision involving the payment of more than $1,000: (i) to a Relative; or (ii) to any entity in which a Relative owns or controls 10% or more of the stock of such entity (or 1% in the case of a corporation whose stock is regularly traded on an established securities exchange); or serves as an officer, director or partner of that entity. If such situation arises, the employee must advise his or her supervisor of the relationship, and must be recused from any and all discussions or decisions relating to the matter.

5.11 Public Authorities Law Section 2879-a establishes a framework for the Office of the State Comptroller ("OSC") to review and approve certain Public Authority contracts.

5.11.1. Any contract in excess of $1,000,000 that is to be awarded by a state authority 1) to a "single source" or "sole source", or pursuant to any other means of procurement that is not competitive, or 2) where the monies to be paid in whole or in part have been appropriated by the state to the state authority for such

contractual expenditure ("Eligible Contract"), must be reported in advance of execution to the OSC. Upon execution, all such Eligible Contracts must be filed with the OSC within 60 days.

5.11.2. If the OSC has previously identified a contract or category of contract as "reviewable" ("Reviewable Contract)", such Reviewable Contract must include language stating that it is subject to OSC approval and the executed Reviewable Contract must be submitted to the OSC for review. If the OSC does not act to disapprove the Reviewable Contract within 90 days, the contract is valid.

VI. AUTHORITY REAL PROPERTY REPORTS

6.1 The Manager Corporate Real Estate or equivalent(s) or designee shall publish the following reports in accordance with these Guidelines:

6.1.1 Pursuant to Section 2800 of the Public Authorities Law, the Manager Corporate Real Estate shall furnish a report for incorporation in the Authority's annual report which is distributed to the Governor, the Chairman and Ranking Minority Member of the Senate Finance Committee, the Chairman and Ranking Minority Member of the Assembly Ways and Means Committee, the State Comptroller and the State Authorities Budget Office. This report shall include (a) a listing of all Real Property having an estimated Fair Market Value greater than fifteen thousand dollars ($15,000.00) that the Authority Disposed of during such reporting period and the name of the purchaser of the Real Property and the price paid by the purchaser for the Real Property, and (b) a description of the total amounts of Real Property sold without competitive bidding, including (i) the nature of the Real Property, (ii) the names of the counterparties, and (iii) where the price for the Real Property sold is less than Fair Market Value, a detailed explanation of the justification for making the sale without competitive bidding, and a certification by the Authority's Chief Executive Officer and Chief Financial Officer that they have reviewed the terms of such sale and determined that it complies with applicable law.

6.1.2 Pursuant to Public Authorities Law § 2896(3)(a), the Manager Corporate Real Estate or equivalent(s) or designee shall prepare for distribution to the State Comptroller, the Director of the Division of the

Budget, the Commissioner of General Services, the State Legislature and the State Authorities Budget Office, an annual report listing all real property of the Authority, which report shall include a list and description of all Real Property Disposed of during the fiscal reporting period. Regarding Disposals, this annual report shall include the price received by the Authority and the name of the purchaser of the Real Property.

6.2 The Authority may be called upon periodically to submit information regarding the Disposal of Real Property to organizations implementing the PAL or other statutes regulating the Disposal of Real Property.

6.3 The Authority's Governance Committee meets at least three times per year and staff from Enterprise Shared Services or the equivalent(s) may prepare and present ongoing reports regarding the Disposal of Real Property.

VII. APPROVAL OF GUIDELINES BY THE AUTHORITY'S BOARD

7.1 The Guidelines shall be annually reviewed and approved by the Authority's Trustees. On or before the thirty-first day of March in each year, the Authority shall file with the State Comptroller a copy of the most recently reviewed and approved Guidelines, including the name of the Authority's designated Contracting Officer. At the time of filing such Guidelines with the State Comptroller, the Authority shall also post such Guidelines on its internet website.

Exhibit B
March 26, 2019

GUIDELINES

AND

PROCEDURES

FOR THE

ACQUISITION OF REAL PROPERTY

BY THE NEW YORK POWER AUTHORITY

Exhibit B
March 26, 2019

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GUIDELINES AND PROCEDURES FOR THE ACQUISITION OF REAL PROPERTY BY THE NEW YORK POWER AUTHORITY

I. PURPOSE

1.1 These Guidelines and Procedures for the Acquisition of Real Property ("Guidelines"), which comply with Title 2, Article 9 of the Public Authorities Law, establish the procedures that detail the Authority's policy and instructions regarding the acquisition of real property. In addition, the Guidelines designate a contracting officer who is responsible for the Authority's compliance with, and enforcement of, the Guidelines.

II. DEFINITIONS

2.1 "Contracting Officer" shall mean the officer or employee of the Authority who shall be responsible for enforcement of the Guidelines for the acquisition of real property. The "Contracting Officer" is hereby designated to be the Vice President - Enterprise Shared Services, or the equivalent(s), or designee.

2.2 "Acquisition" or "Acquire" shall mean to obtain title to or any other beneficial interest in real property in accordance with applicable statutes and these Guidelines.

2.3 "Fair Market Value" shall mean the estimated dollar amount that a willing buyer would pay to a willing seller for the Real Property in an arms-length transaction in the appropriate marketplace and under similar circumstances.

2.4 "Real Property" shall mean real property, including land, tenements and hereditaments owned by the Authority, and any other interest in such real property, to the extent that such interest may be conveyed to another person or entity for any purpose, excluding an interest securing a loan or other financial obligation of another party.

2.5 "Relative" is any person living in the same household as the Authority employee or any person who is a direct descendant of the Authority employee's grandparents or the spouse of such descendant, as referred to in Article 5 of these Guidelines.

III. COMPLIANCE OVERVIEW

3.1 These Guidelines are being adopted consistent with the Public Authorities Law ("PAL").

3.2. The Authority may Acquire Real Property through purchase, eminent domain, state transfers of jurisdiction, lease and by other legal means.

3.3 The Authority's New York statutory authority for land acquisition includes, without limitation, the Public Authorities Law, the Real Property Law, the Public Lands Law, the Eminent Domain Procedure Law and the Highway Law, as amended.

IV. DUTIES OF THE MANAGER CORPORATE REAL ESTATE

4.1 The Manager Corporate Real Estate or the equivalent(s) or designee will maintain adequate inventory controls and accountability systems for all Real Property under the Authority's control.

4.2 Real Property to be Acquired by the Authority will be in support of existing operating and transmission facilities or in support of new initiatives being pursued by the Authority. The Manager Corporate Real Estate or the equivalent(s) or designee will, in consultation with the other appropriate Authority staff (by oral or written communication), determine what Lands are necessary or convenient for Acquisition by the Authority.

4.3 The compensation for and the procedure for such Acquisition must be consistent with these Guidelines and the Authority's Real Estate Expenditure Authorization Procedures as amended.

4.4 The Manager Corporate Real Estate or the equivalent(s) or designee will arrange for the transfer or Acquisition of any Real Property identified for Acquisition by the Authority in accordance with these Guidelines and the Authority's Real Estate Expenditure Authorization Procedures and as soon as reasonably practical under the circumstances.

4.5 The Manager Corporate Real Estate or the equivalent(s) or designee will provide all relevant documentation to the Authority's Environmental Division to determine whether the Acquisition of Real Property is in compliance with the State

Environmental Quality Review Act, and whether it adheres to the American Society of Testing and Material's Guidelines for Environmental Site Assessments, if applicable.

4.6 Public Authorities Law Section 2879-a establishes a framework for the Office of the State Comptroller ("OSC") to review and approve certain Public Authority contracts.

4.6.1. Any contract in excess of $1,000,000 that is to be awarded by a state authority 1) to a "single source" or "sole source", or pursuant to any other means of procurement that is not competitive, or 2**)** where the monies to be paid in whole or in part have been appropriated by the state to the state authority for such contractual expenditure ("Eligible Contract"), must be reported in advance of execution to the OSC. Upon execution, all such Eligible Contracts must be filed with the OSC within 60 days.

4.6.2. If the OSC has previously identified a contract or category of contract as "reviewable" ("Reviewable Contract)", such Reviewable Contract must include language stating that it is subject to OSC approval and the executed Reviewable Contract submitted to the OSC for review. If the OSC does not act to disapprove the contract within 90 days, the contract is valid.

V. ETHICAL CONSIDERATIONS

5.1 No Authority employee who is involved in the Acquisition of Real Property, may ask any purchaser, grantor, lessor or officers, directors or employees of such current or prospective purchaser, grantor or lessor to reveal: (a) the political party affiliation

of the individual; (b) whether the individual or entity has made campaign contributions to any political party, elected official, or candidate for elective office; or (c) whether the individual voted for or against any political party, elected official or candidate for elective office.

5.2 No Authority employee may take part in any Acquisition decision involving the payment of more than $1,000: (i) to a Relative; or (ii) to any entity in which a Relative owns or controls 10% or more of the stock of such entity (or 1% in the case of a corporation whose stock is regularly traded on an established securities exchange); or serves as an officer, director or partner of that entity. If such situation arises, the employee must advise his or her supervisor of the relationship, and must be recused from any and all discussions or decisions relating to the matter.

VI. ACQUISITION REPORTS BY THE AUTHORITY

6.1 The Manager Corporate Real Estate or equivalent(s) or designee shall publish the following reports in accordance with these Guidelines:

6.1.1 Pursuant to Section 2800 of the Public Authorities Law, the Manager Corporate Real Estate shall furnish a report for incorporation in the Authority's annual report which is distributed to the Governor, the Chairman and Ranking Minority Member of the Senate Finance Committee, the Chairman and Ranking Minority Member of the Assembly Ways and Means Committee, the State Comptroller and the State Authorities Budget Office. This report shall include (a) a listing of all Real Property having an estimated Fair Market Value greater than fifteen thousand dollars ($15,000.00) that the Authority Acquired during such reporting period and the name of the seller of the Real Property and the price paid by the Authority for the Real Property, and (b) a description of the total amounts of Real Property purchased without competitive bidding, including (i) the nature of the Real Property, (ii) the names of the

counterparties, and (iii) where the price for the Real Property purchased exceeds Fair Market Value, a detailed explanation of the justification for making the purchase without competitive bidding, and a certification by the Authority's Chief Executive Officer and Chief Financial Officer that they have reviewed the terms of such purchase and determined that it complies with applicable law.

6.1.2 The Authority may be called upon periodically to submit information regarding the Acquisition of Real Property to organizations implementing the PAL or other statutes regulating the Acquisition of Real Property, such as the Authority Budget Office through the Public Authorities Reporting System ("PARIS").

6.1.3 The Authority's Governance Committee meets at least three times per year and staff from HR and Enterprise Shared Services or the equivalent may, upon request, prepare and present ongoing reports regarding the Acquisition of Real Property.

Exhibit C
March 26, 2019

POWER AUTHORITY OF THE STATE OF NEW YORK
2018 ANNUAL REPORT OF DISPOSAL (CONVEYANCE) OF REAL PROPERTY OVER $15,000 IN VALUE

Purchaser's Name	**Price Realized by the Authority**	**Parcel Acres**	**Transfer Date**
The Town of Louisville	No Consideration	0.71	May 31, 2018
New York City Department of Environmental Protection	$293,740.00	117.00	May 16, 2018

Fee interest conveyed unless otherwise noted.

Exhibit C-1
March 26, 2019

POWER AUTHORITY OF THE STATE OF NEW YORK
2018 ANNUAL REPORT OF ACQUISITIONS OF REAL PROPERTY OVER $15,000 IN VALUE

Seller's Name	Price Paid by the Authority	Acres	Transfer Date

None this Reporting Period.

Exhibit D
March 26, 2019

DELEGATION OF APPROVAL / SIGNATORY AUTHORITY FOR CLAIMS SETTLEMENT AND PAYMENT FOR REAL ESTATE

	Real Estate Administrator or Equivalent	Mgr Corp. Real Estate or Equivalent	VP – ESS or Equivalent[1]	President/Chairman	Trustees
A) Acquisition and disposition of fee and easement interests in real property other than by appropriation or condemnation:		**up to $ 5,000 FMV per parcel**	**up to $ 10,000 FMV per parcel**	**up to $ 20,000 FMV per parcel**	**> $ 20,000 FMV per parcel**
B) Permits, Licenses and Operating Agreements for use of property owned by others or for use of Authority property by others:	**up to $1,000 annual value**	**up to $10,000 annual value**	**up to $20,000 annual value**	**up to $100,000 annual value**	**>$100,000 annual value**
C) Agreement for annual payment in lieu of taxes: [2] (per year)		**up to $10,000 per parcel**	**up to $50,000 per parcel**	**up to $100,000 per parcel**	**> $100,000 per parcel**
D) Leases or Lease Extensions where Authority is either landlord or tenant :		**up to 5-year term including all renewal options *and* not exceeding $30,000 annual rent**	**up to 10-year term including all renewal options *and* not exceeding $50,000 annual rent**	**up to 10-year term including all renewal options *and* > $50,000 and ≤$100,000 annual rent**	**> 10-year term including all renewal options *or* > $100,000 annual rent regardless of term**
E) Advance payments for acquisition of real property by condemnation or appropriation:		**100% of AV with concurrence of General Counsel if over $100,000**			
F) Settlement of claims resulting from:					
1) Acquisition of Real Property by Appropriation or Condemnation: [3]					
(a) If AV [4] is $ 20,000 or less:		**≤ 150% of AV *or* AV + $2,000**	**≤ 200% of AV *or* AV + $6,000**	**> 200% of AV *or* AV + $6,000**	
(b) If AV is $ 200,000 or less:		**≤ 125% of AV**	**≤ 150% of AV**	**≤ 175% of AV**	**> 175% of AV**
(c) If AV is $ 500,000 or less:		**≤ 110% of AV**	**≤ 120% of AV**	**≤ 135% of AV**	**> 135% of AV**
(d) If AV is $1,000,000 or less:		**AV**	**≤ 110% of AV**	**≤ 135% of AV**	**> 135% of AV**
(e) If AV is more than $1,000,000:		**--**	**≤ AV**	**≤ 120% of AV**	**> 120% of AV**
2) Agricultural damages and mitigation:	**up to $1,000**	**up to $20,000**	**up to $100,000**	**up to $300,000**	**> $300,000**
3) Miscellaneous damages:	**up to $1,000**	**up to $20,000**	**up to $50,000**	**up to $100,000**	**> $100,000**
4) Radio & TV interference; audible noise:		**up to $20,000**	**up to $50,000**	**up to $100,000**	**> $100,000**

(1) The SVP of HR and Enterprise Shared Services (ESS) is also authorized to sign commitments for Real Estate transactions up to the VP ESS level in the latter's absence.
(2) Only upon approval by Trustees to make payment in lieu of taxes for the specific project.
(3) Only upon approval by the Trustees of the acquisition.
(4) AV = Appraised Value, FMV = Fair Market Value

Title: Salary Administration

Document Type:	Employee Policy
Document Number:	EP 2.1
Revision Date:	2/8/2019
Final Approver:	*Pizzo, Kristine* SVP HR & Enterprise Shared Services
Executive Owner:	Saslow, Karina VP Total Compensation & HRIS
Content Owner:	McDonnell, Robyn Senior Compensation Specialist

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Salary Administration

Note: Revision # should be listed in descending order starting with most recent version at the top.

Revision Date(For BCG Use Only)	Revision #	Description/Modification	Revision Section (s)	Author
	20	• Updated reference to Performance rating scale and MOSAIC platform • Clarification of approvals • Clarification on "Below Expectations" increases • Clarification of timing of actions	Throughout 4.1 & 4.2 5.1.3a 5.9.2 & 5.9.3	Karina Saslow VP Total Comp & HRIS
2/8/2019	19	• Use the term Management instead of Salaried for references to non-union employees for consistency with employee categories in EP 3.1 • Updated Merit Program timing • Replaced "in-place" promotion with "competency" promotion • Addition of Skill Adjustment • Reordering of Lateral & Demotion under Skill. Clarification lateral is element of Skill. • Clarification of timing of salary actions • Sign-On addition of requirements	Throughout 5.1.4 5.2.3 5.3 5.4 / 5.5 5.9 5.10	Karina Saslow Dir. Total Comp & HRIS
07/07/2015	18	Updated document to the new format. This policy had 17 prior revisions under the old format. • New Organizational Roles updated (SVP, Human Resources) • Clarification of Lump Sum payments	N/A Throughout 5.1.5	Christopher Gillard Compensation Specialist

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		being pensionable • Clarification of leave of absence and merit timing • Update on in-place promotion requirements • Removal of compa-ratio limits and addition of guidance on positioning pay in range. • Clarification of >10% increases and potential for spreading it over period of time. • Expanded definition of market and equity adjustments • Clarification of lateral moves. • Addition of FLSA statement	5.1.6 5.2.3a 5.2.1 5.2.2 5.3.3 & 5.3.4 5.5 6	

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Please refer to Employee Policy EP 0.0 NYPA DISCLAIMERS where you will find a statement which pertains to all Employee Policies including this one.

1 PURPOSE AND SCOPE

1.1 This policy governs salary administration for eligible management employees as defined in Section 2 below.

1.2 This policy describes the New York Power Authority's (NYPA) competitive pay program and provides guidelines in which to recognize and reward different degrees of performance through salary changes within budget limits.

2 APPLICABILITY

This policy applies to all permanent and provisional NYPA employees, as defined in the Management Employee Categories and Eligibility for Benefits policy (EP 3.1).

3 INITIALISMS (ACRONYMS) AND DEFINITIONS

Base Rate of Pay Bargaining Unit Employee - the negotiated hourly rate for the job, excluding any other payments granted to an employee such as premiums and overtime.

FLS - First Line Supervisor

Management - non-bargaining unit NYPA employees.

Permanent Employees – employed on full time or part time basis, paid directly by the Authority and have no pre-determined employment time limit. (See EP 3.1)

a) **Transitional position** – Permanent employees who work full-time to fill an anticipated vacancy in another Authority position within a designated time-frame up to one year.

Provisional Employees – Work full-time for a specific project or assignment for a period that is expected to last at least one year, but not more than three years and who are paid directly by the Authority. (See EP 3.1)

4 RESPONSIBILITY

Responsibility and oversight of this policy resides with the approver unless otherwise noted here in.

4.1 All types of actions described in this policy, including the effective date of the salary action, require the approval of the Business Unit Head, the Senior Vice President Human Resources or his/her designee, and the President and CEO or his/her designee. Based on the immediate needs of the business, the SVP Human Resources may approve actions be processed in advance of the President and CEO's signature. All requests require a summary of the reason for selection, change in role and responsibilities, succession planning actions, and/or relevant information justifying

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the action.

4.2 Any salary action varying from the guidelines of this policy requires documentation, justification, and majority approval from the Compensation Committee and the President and CEO. The justification must contain a detailed explanation for the request. Requests that are insufficient will be returned for further justification or denied.

a) The Compensation Committee requires a minimum of three participants. It is made up of the Business Unit Heads that report directly to the President and CEO. The Business Unit Head directly involved in the salary action request and the Senior Vice President Human Resources, who is required to approve all actions (see 4.1), shall not serve on the Compensation Committee.

4.3 Any action affecting the hiring of or promotion to Vice President or higher also requires notification to the Trustee's Governance Committee.

4.4 The Trustees and the Governance Committee will receive a quarterly report of all salary actions implemented in the prior quarter.

5 POLICY IMPLEMENTATION

5.1 Annual Merit Increase

5.1.1 Annual merit increases are intended to provide recognition and reward for performance within the parameters of NYPA's annual salary budget. However, neither an annual salary budget nor an annual performance assessment is a guarantee that a salary adjustment will occur.

5.1.2 An employee's performance rating summarizing his/her annual performance will be taken into consideration for annual merit purposes and ensures that an employee is considered for a salary adjustment.

5.1.3 Eligibility:

a) Only employees who receive a performance rating of Meets Expectations or better (see Performance Instructions on the Mosaic Central page of the PowerNet for ratings definitions), are provided consideration for an annual merit increase. Increases provided to employees rated 'Below expectations' require justification.

b) No annual merit increase will be given to employees who earn a performance rating of Does Not Meet Expectations.

c) Employees whose date of hire is within the six months prior to the Annual Merit increase effective date will not be eligible for that year's increase.

5.1.4 Timing:

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a) Effective dates of annual merit increases are at the discretion of senior management and will be announced each year as business needs allow.

b) In the case of employees on approved leaves of absence, the effective date of increases may be adjusted (see section 5.1.6).

5.1.5 General Guidelines:

a) Base salaries of employees who earn a performance rating of Above Expectations or Meets Expectations can reach the maximum of the grade range for their job, but cannot exceed it. Should an employee's base salary reach the maximum of the grade range or beyond, recommendations to go over must have appropriate approvals as specified in section 4.2. If the maximum of the grade range is exceeded by the recommended salary increase, then the portion of the increase in excess of the maximum will be granted in the form of a pensionable lump sum payment which does not become part of base pay and must be re-earned each year.

b) Base salaries of employees who earn a performance rating of Outstanding may exceed the maximum of the grade range by 4%. If the recommended salary increase exceeds 4% above maximum, then the portion of the increase in excess of the maximum will be granted in the form of a pensionable lump sum payment which does not become part of base pay and must be re-earned each year.

c) If an employee is under the minimum of the grade range for his/her job and has a performance rating of Meets Expectations or better, an adjustment to minimum will be given prior to the Merit increase, unless a plan is already in place to progress the salary to the minimum of the range.

5.1.6 Approved Leaves of Absence:

a) Performance Assessments - Annual performance assessments should be based on performance in the previous assessment year, regardless of the length of time the employee was on approved leave.

b) Effective Date of Salary Increase - is determined upon the employee's return to work. If the employee returns from an approved leave of three months or less, the Merit increase will be effective retroactive to the common Merit Increase date. If the approved leave is longer than three months, the Merit Increase will be effective on the date the employee returns to work, unless proscribed by any other policy, state or federal law.

c) In neither situation will the amount of the increase be affected by the leave.

5.2 Promotional Increases

5.2.1 Assignment of an employee to a position of one or more grades higher may be accompanied by an increase in salary of up to 10%. A current performance assessment needs to be on record for employees recommended for promotion. An employee's position in a grade range should reflect proficiency for the expectations of the level of the role. The lower third is entry range, people new to the field, less skilled performers. Median range is skilled performers/experienced for the level of work defined. Upper third range is consistent top performers and critical skill/experts.

5.2.2 When a 10% promotional increase does not bring the employee's salary to the minimum of the new grade range, or creates equity concerns (see section 5.8), the employee may receive a larger increase with approval of the Compensation Committee (see section 4.2). Increases over 10% may result in the increase being spread out over a defined period of time and based on continued performance of Meets Expectations or better.

5.2.3 Types of Promotions:

a) Competency: Competency promotions are based on defined essential knowledge, skills, and abilities for a certain level of work. An individual needs to demonstrate their ability to meet these requirements and management needs to provide a business need for this level of work. A Job hierarchy needs to be in place for a competency promotion to be implemented. Competency promotions for the upcoming year will be planned for in the merit planning cycle. They will be implemented in the following year on common dates determined and announced at the beginning of the year.

b) Organizational Promotion (backfill or new role): Employee is assigned a different job in order to fill an open or newly created position with expanded responsibilities at a grade higher than the employee's current position. These will be implemented at the time a candidate is identified for the position.

c) Re-evaluated position: When a business need drives a change in work or a reorganization results in a job having expanded responsibilities and increased level of competency, a job analysis should be requested by the Business Unit Head and forwarded to the Human Resources Compensation Group in order to assess supporting a higher grade range (see section 5.6.3).

5.3 Skill Adjustments

5.3.1 A skill adjustment allows managers to recognize consistently demonstrated growth of an employee in a role and may include an increase in salary of up to 6%. An employee's position in a grade range should reflect proficiency for the expectations of the level of the role. The lower third is entry range, people new to the field, less skilled performers.

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Median range is skilled performers/experienced for the level of work defined. Upper third range is consistent top performers and critical skill/experts.

5.3.2 Skill adjustments should not occur for an individual more than three times within a grade level.

5.4 Lateral Transfer

5.4.1 A lateral transfer occurs when an employee moves from one job to another which has the same grade level, but may be in a different pay structure (e.g. Support-I, Utility - U, Engineering/Science/Attorney - X).

5.4.2 In the case of lateral transfers, a skill adjustment may be considered based on the criteria in 5.3.1.

5.4.3 Moves that are part of a development plan or program or job changes that are part of a specific work project may be considered for a skill adjustment.

5.5 Demotions

5.5.1 A demotion may occur as the result of inadequate employee performance which leads to the employee being assigned to a new job that is one or more grades below the current grade and may include a reduction in salary.

5.5.2 Employees demoted and whose salaries are above the maximum of the new grade range may have their salaries reduced to no more than the maximum of the new grade range.

5.6 Job Descriptions

5.6.1 Each Business Unit head, or their designee, is responsible for ensuring that the management jobs in their organization have accurate and up-to-date descriptions on record with the Human Resources Compensation group. Substantive changes (increased or decreased) in the primary responsibilities, scope, and/or minimum qualifications must be communicated to the HR Business Partner and Compensation group. Based on the revised description, the Compensation group, with the input of management, reviews and evaluates the job against both the marketplace and internal comparable positions.

5.6.2 Recommendation for changes to any job based on the evaluation are coordinated with and approved by the respective Business Unit Head(s) for departments in which the job exists.

5.6.3 An evaluation may result in a change in grade. If a job is re-evaluated upward due to a significant change in job content, consideration may be given to granting a promotional increase as previously defined and outlined in Section 5.2.3 b.

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5.6.4 Employees whose positions are re-evaluated and downgraded and whose salaries are greater than 4% above the maximum of the new grade range may have their salaries reduced to 4% above the maximum of the new grade range, otherwise salaries will not be adjusted based on a downgrade in the job.

5.7 First Line Supervisor (FLS) Differential

To prevent inequities between bargaining unit employees, or equivalent jobs in non-union facilities, and their supervisors, FLS jobs shall generally be paid a minimum of five percent (5%) above the annual base rate of pay of the highest paid supervised bargaining unit employee (or equivalent job). This differential applies only to those FLS who achieve an annual Performance Plus rating of Meets Expectations or better for their prior year's performance.

5.8 Market / Equity Adjustments

5.8.1 Upon the recommendation of the Human Resources Compensation group, an adjustment to base salary may be permitted to achieve internal and/or market equity.

5.8.2 Only employees who earn a performance rating of Meets Expectations or better are eligible for a market or equity adjustment.

5.8.3 External market adjustments are reviews of NYPA job grade ranges and average salaries to market rates. These are reviewed during the annual merit planning cycle. If a Business Unit head approves, a review may be conducted outside of the annual cycle to review a job hierarchy's positioning.

5.8.4 Internal equity adjustments are reviews of peer groups (e.g., same grade and geographic region or same grade, job family and geographic region) to review consideration of comparable pay. Overall, an equity review is conducted once a year after each annual salary cycle. Equity is also taken into consideration when making salary recommendations.

5.9 Timing of Salary Actions

5.9.1 With the exception of the annual merit increase, at least six months must elapse between any *other* salary actions, inclusive of date of hire.

5.9.2 The Compensation group, each year, will provide a calendar of common effective dates for skill adjustments, organizational and competency promotions, and job re-evaluations. These transactions will be frozen during the annual merit increase planning cycle.

5.9.3 Reorganizations, backfilling of positions, filling new positions and demotions will be acted upon at any time during the year. Unless specifically noted, effective dates of such actions will be on the first day of the pay period on or after final approval from the President & CEO, or their designee.

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5.10 Sign-On & Retention

5.10.1 Special incentives for the purpose of attracting or retaining staff may be recommended for VP and above levels or Engineering, Environmental, Generation Resource Management Traders, Technical Compliance, and IT Utility positions (grade 07 and above).

5.10.2 Incentives may be offered up to 10% of the midpoint of the job grade and include a 2 year full repayment agreement in the event of voluntary resignation or termination for cause.

5.10.3 All special incentives within this section require the approvals specified in section 4.2. VP and above require the additional approval of the Governance Committee.

5.11 Incentive Pay

5.11.1 An incentive is a lump sum award paid in recognition of the extraordinary achievement of an individual or a group on special projects or in unique situations that are critical to NYPA.

5.11.2 An incentive plan may be developed upon the recommendation of the Business Unit Head accountable for the results, the Senior Vice President Human Resources, and the President and CEO or his/her designee.

5.11.3 An incentive plan may be developed:

a) Before the start of a project, based on a pre-determined set of measures associated with the project goals and announced to those employees who are eligible, or
b) After exemplary completion of an extraordinary project that evolved during a given year.

5.11.4 Criteria for such an award must include extraordinary tangible benefits to NYPA such as reduced costs or increased revenue.

6 VIOLATIONS

N/A

7 REFERENCES

EP: 3.1 Management Employee Categories and Eligibility for Benefits [Powernet – Quick Links – Employee Policies – EP 3.1]

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8 POLICY REVIEW AND EXPIRATION

This document will be reviewed and updated as business needs require. However, a mandatory review will be required on the anniversary date of the approved document.

Revision Cycle: Every Year

9 ATTACHMENTS

N/A

E-Signature Approval History

Role	Name	Approved Date
Final Approver	Pizzo, Kristine	2/8/2019
Executive Owner	Saslow, Karina	1/28/2019
Content Owner	McDonnell, Robyn	1/28/2019

Title: Management Non-Exempt and Facility-Based Exempt Overtime

Document Type:	Employee Policy
Document Number:	EP 2.4
Revision Date:	1/15/2019
Final Approver:	*Pizzo, Kristine* SVP HR & Enterprise Shared Services
Executive Owner:	Saslow, Karina VP Total Compensation & HRIS
Content Owner:	McDonnell, Robyn Senior Compensation Specialist

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Management Non-Exempt and Facility-Based Exempt Overtime

Note: Revision # should be listed in descending order starting with most recent version at the top.

Revision Date(For BCG Use Only)	Revision #	Description/Modification	Revision Section (s)	Author
	13	Update to titles Clarification on non-exempt travel time review Reference to Management Exempt Emergency/Crisis Response Compensation policy	2.2c, Section 4 5.1.4 5.2.5	Robyn McDonnell Sr. Compensation Specialist
1/15/2019	12	Updated document to the new format. This policy had 11 prior revisions under the old format. Replaced "Salaried" with “Management” Clarification of Exempt Eligibility, inclusion of Customer Load Forecasting Removed section pertaining to Exempt Employees temporarily assigned to a Facility Addition of FLSA	N/A Throughout 2.2 5.2.6 & 5.3.2 6	Robyn McDonnell Sr. Compensation Specialist

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Please refer to Employee Policy EP 0.0 NYPA DISCLAIMERS where you will find a statement which pertains to all Employee Policies including this one.

1 PURPOSE AND SCOPE

1.1 This policy provides for the authorization and payment of overtime to eligible Authority employees (see *Eligible Employees* below). It permits the Authority to:

a) comply with the Fair Labor Standards Act;

b) provide additional compensation to certain exempt positions for ensuring the safe and efficient generation and transmission of electricity during specified overtime events;

c) provide some relief for pay compression between bargaining unit employees and first line supervisors; and

d) manage overtime costs.

1.2 Eligible overtime is scheduled, authorized and approved time worked in excess of the normal workweek, under predetermined conditions related to specific Authority or facility requirements, priorities, special projects, or to maintain safe operating conditions.

2 APPLICABILITY

2.1 Non – Exempt Eligible Employees:

a) All management non-exempt employees are eligible for non-exempt overtime as required by the wage and hour laws of the Fair Labor Standards Act, as enforced by the U.S. Department of Labor.

2.2 Exempt Eligible Employees:

a) First Line Supervisors — management exempt employees with a job category of Supervisor at the facilities whose job is to supervise bargaining unit employees or the equivalent at non-bargaining unit facilities, may be eligible for exempt overtime compensation.

b) Facility-based management exempt individual contributor employees in grades up through 09 (I/U/X) may be eligible for exempt overtime compensation.

c) Management exempt individual contributor employees working in the Generation Resources Trading Room on a 24/7 shift, management exempt individual contributor Fuel Buying/Gas Scheduling positions supporting the

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Generation Resources Traders, management exempt individual contributor Transmission System Operators working at the Energy Control Center (ECC), and management exempt individual contributor Market Forecasting Services (MFS) Analysts supporting the New York Independent System Operator (NYISO) energy bidding process and customer energy demands, may be eligible for exempt overtime compensation despite location or grade.

d) Headquarters management exempt employees, physically working at a facility as part of a specified temporary work project, and who are in grades up through 09 (I/U/X) may be eligible for exempt overtime compensation.

e) Management exempt employees in grades 10 (I/U) and above are not eligible for overtime compensation under any circumstances other than First Line Supervisors as noted in 2.2 (a), and the Fuel Buyer/Gas Scheduling, positions, Generation Resources Traders, System Operators at the ECC, and the MFS Analysts as noted in 2.2 (c).

3 INITIALISMS (ACRONYMS) AND DEFINITIONS

ECC – Energy Control Center

E-Week – A week during a rotating 12 hour shift schedule that permits a 32 hour week (4 - 8 hour days) to balance out the rotation.

Exempt Employee – one whose job duties meet the established tests for exemption under certain wage and hour laws of the Fair Labor Standards Act, as enforced by the U.S. Department of Labor. Exempt employees receive pay on a salary basis.

Facility-Based – employees whose location of record in SAP is not White Plains or Albany

Headquarters – employees whose location of record in SAP is White Plains or Albany

Individual Contributor – employees who do not have defined supervisory or managerial responsibility for other NYPA employees.

Management – all non-bargaining unit NYPA employees

Non-Exempt Employee – one whose job duties do not meet the established tests for exemption under certain wage and hour laws of the Fair Labor Standards Act, as enforced by the U.S. Department of Labor.

O&M Budget – Operations and Maintenance Budget

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4 RESPONSIBILITY

4.1 A Business Unit Head or Regional Manager, or their designee will establish the event (Section 1.2) for which overtime will be paid, and will be accountable for the direction, authorization and administration of overtime as covered by this policy.

4.2 The Controller, or designee, will provide periodic reports of overtime paid including year-to-date totals. The Business Unit Head or Regional Manager, or their designee will reconcile these reports against authorizations required by this policy and promptly notify the Controller or designee in writing of any discrepancies that require correction.

4.3 The Business Unit Head is responsible for the prudent use of overtime within the parameters established by the approved O&M Budget.

5 POLICY IMPLEMENTATION

5.1 Non-Exempt Overtime

5.1.1 On those occasions when it is necessary for non-exempt employees to work in excess of their basic workweek [see Attendance and Flexible Hours policy (EP: 4.6)], all additional time worked must be directed and authorized in advance in accordance with Section 1.2 of this policy.

5.1.2 Notwithstanding the requirements of Section 5.1.1 above, under the Fair Labor Standards Act, all non-exempt employees who work in excess of their basic workweek must record and be paid for all time worked.

5.1.3 The rate of pay for non-exempt employees is as follows:

a) Straight time for up to 40 hours in a workweek.

b) 1½ times the straight time equivalent hourly rate of the annualized salary for those hours worked beyond 40 hours in a workweek. Payment for time worked on a scheduled holiday will be paid at 1½ times the equivalent hourly rate.

5.1.4 Generally, time spent traveling on company business will not be counted as hours worked for overtime computation purposes. However, each situation is unique and should be confirmed with the Compensation group.

5.1.5 For non-exempt employees, work time spent as a required or assigned participant in any training program, lecture, meeting or workshop, will be paid at the applicable rate of pay (Section 5.1.3) for that time period. Additional detail on non-exempt overtime reporting is available on the PowerNet under Human Resources – Compensation

5.2 Exempt Overtime

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5.2.1 Time worked in excess of the normal workweek at an exempt employee's discretion will not be compensated. For eligible management exempt employees, all paid overtime must be approved in advance in accordance with Sections 1.2 and 5.3.

a) For exempt employees on 12 hour shifts, overtime is any time outside the regularly scheduled shift, regardless of the number of hours in the shift. If the scheduled rotation results in greater than 40 hours per week over the course of the year (e.g., 3 day on/3 day off continuous rotation), then the additional hours over the regular 2,080 hours will be built in overtime. With management's approval, trading of hours with another employee should result in an equal number of hours and the new hours become part of the regular schedule. For schedule rotations that include an "E-week" of four 8 hour shifts, the employee's schedule can be modified to backfill for shifts as needed, and all hours greater than 32 for the week would be paid as overtime.

5.2.2 For management exempt employees in, or temporarily acting in, First Line Supervisor positions, approved overtime will be paid at 1½ times the hourly equivalent of the exempt employee's salary for hours of *actual supervision* of NYPA bargaining unit employees, or the equivalent. Similarly, Transmission System Operators and Day Ahead Traders approved overtime will be paid at 1½ times the hourly equivalent of their exempt salary for hours performing their primary duty. Any other overtime hours, if approved, will be paid at a straight time rate.

5.2.3 Eligible individual contributor employees may be paid for all hours worked, in accordance with section 1.2. Approved overtime will be paid at the straight time hourly equivalent of the exempt employee's salary.

5.2.4 Exempt employees who are pre-approved to work during a scheduled holiday will be paid at 1½ times the hourly rate for First Line Supervisors, and 1 times the hourly rate for non-supervisory employees for actual hours worked in addition to their normal straight time pay for the holiday.

5.2.5 Exempt management employees who are called to respond to an emergency/crisis situation refer to EP 2.5 Management Exempt Emergency/Crisis Response Compensation.

5.3 Approval and Time Records

5.3.1 For eligible management exempt employees, an Overtime Approval form must be completed stating, at a minimum, the employee's name, period of time for which the overtime has been requested and approved, a brief description of the task, and the employee's basic workweek hours. Each operating facility may have a standard Overtime Approval form. These must be reviewed and approved (signed) by a Business Unit Head and/or Regional Manager, or designee, as appropriate. These records are retained by the applicable department or facility

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5.3.2 Payment for authorized overtime under the guidelines of this policy, where practicable, will be charged to the operating budget where the work is performed. The approved time report must clearly indicate the appropriate facility program code number to charge.

5.3.3 Payment to a management exempt employee for overtime that has not been specifically directed or authorized by those delegated the responsibility by this policy, will not be permitted under any circumstances. Issues with unauthorized non-exempt overtime will be addressed through the performance management process. [See Section 5.1 regarding treatment of non-exempt employees.]

5.3.4 This policy supersedes all prior policies and procedures regarding overtime for exempt and non-exempt personnel.

6 VIOLATIONS

Violations of this Policy and related policies and procedures by employees may result in disciplinary action up to and including termination.

7 REFERENCES

EP 2.5 Management Exempt Emergency/Crisis Response Compensation.

8 POLICY REVIEW AND EXPIRATION

This document will be reviewed and updated as business needs require. However, a mandatory review will be required on the anniversary date of the approved document.

Revision Cycle: Every Other Year

9 ATTACHMENTS

N/A

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E-Signature Approval History

Role	Name	Approved Date
Final Approver	Pizzo, Kristine	1/15/2019
Executive Owner	Saslow, Karina	1/2/2019
Content Owner	McDonnell, Robyn	1/2/2019

Title: Management Exempt Emergency/Crisis Response Compensation

Document Type:	Employee Policy
Document Number:	EP 2.5
Revision Date:	1/15/2019
Final Approver:	*Pizzo, Kristine* SVP HR & Enterprise Shared Services
Executive Owner:	Saslow, Karina VP Total Compensation & HRIS
Content Owner:	McDonnell, Robyn Senior Compensation Specialist

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Management Exempt Emergency/Crisis Response Compensation

Note: Revision # should be listed in descending order starting with most recent version at the top.

Revision Date(For BCG Use Only)	Revision #	Description/Modification	Revision Section (s)	Author
1/15/2019	0	Original Issue		Karina Saslow VP, Total Compensation & HRIS

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Please refer to Employee Policy EP 0.0 NYPA DISCLAIMERS where you will find a statement which pertains to all Employee Policies including this one.

1 PURPOSE AND SCOPE

If it is determined that an Incident or Major Disaster exists, or is imminent, exempt employees who perform services related thereto may be requested or required to work hours in excess of their regularly scheduled workweek. Such exempt employees will be compensated for their excess time in the form of an Emergency Payment.

2 APPLICABILITY

FLSA Exempt Management employees assigned to respond to an incident, with approval of excess working time per current policy.

3 INITIALISMS (ACRONYMS) AND DEFINITIONS

FLSA Exempt Employee – one whose job duties meet the established tests for exemption under certain wage and hour laws of the Fair Labor Standards Act (FLSA), as enforced by the U.S. Department of Labor. Exempt employees receive pay on a salary basis.

Incident - Any condition which constitutes a civil emergency, catastrophic condition, or a state of crisis management, when so determined by NYPAs President & CEO or COO.

Incident Period - The time interval, as designated by the individual declaring the incident/major disaster, during which the event occurs and continues to impact working conditions.

Major Disaster - Any natural catastrophe (including but not limited to hurricane, tornado, storm, high water, wind driven water, landslide, mudslide, snowstorm, or drought), or regardless of cause, any fire, flood, or explosion.

Management – non-bargaining unit NYPA employees

4 RESPONSIBILITY

Responsibility and oversight of this policy resides with the approver unless otherwise noted here in.

5 POLICY IMPLEMENTATION

5.1 Emergency Payment

a) Shall be paid to eligible exempt employees for each hour worked, during the Incident Period, in excess of their regularly scheduled workweek.

b) Hours will be paid at straight time rate during the employee's scheduled work hours

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and time-and-a-half for off-schedule hours and scheduled Holidays (including the holiday pay).

c) In events external to NYPA, employees coming from 12 hour shifts will assume an 8 hour x 5 day schedule.

Example

Scheduled work week is M-F, 8 hours a day

	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
Total Hours Worked	4	12	16	16	16	16	10
Straight Time		8	8	8	8	8	
Time & Half	4	4	8	8	8	4	10

Holiday Worked

- Employee is paid the 8 hours holiday straight time and time and a half for all hours worked.

Holiday Not Worked

- Employee is paid the 8 hours holiday straight time

5.2 Approval and Time Records

Shall follow the same requirements as stated in EP 2.4 Management Non-Exempt and Facility Based Exempt Overtime

6 VIOLATIONS

Violations of this Policy and related policies and procedures by employees may result in disciplinary action up to and including termination.

7 REFERENCES

EP 2.4 – Management Non-Exempt and Facility Based Exempt Overtime [Powernet → Quick Links → Employee Policies → EP 2.4]

8 POLICY REVIEW AND EXPIRATION

This document will be reviewed and updated as business needs require. However, a mandatory review will be required on the anniversary date of the approved document.

Revision Cycle: Every Other Year

9 ATTACHMENTS

N/A

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E-Signature Approval History

Role	Name	Approved Date
Final Approver	Pizzo, Kristine	1/15/2019
Executive Owner	Saslow, Karina	1/2/2019
Content Owner	McDonnell, Robyn	1/2/2019

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Title: Management Employee Categories and Eligibility for Benefits

Document Type:	Employee Policy
Document Number:	EP 3.1
Revision Date:	2/8/2019
Final Approver:	*Pizzo, Kristine* SVP HR & Enterprise Shared Services
Executive Owner:	Saslow, Karina VP Total Compensation & HRIS
Content Owner:	Verdesi, Brenda Manager Benefits

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Management Employee Categories and Eligibility for Benefits

Note: Revision # should be listed in descending order starting with most recent version at the top.

Revision Date(For BCG Use Only)	Revision #	Description/Modification	Revision Section (s)	Author
2/8/2019	10	Biennial Review Addition of file paths	N/A 7	Brenda Verdesi Manager, Benefits
10/13/2016	9	Contingent workers are not eligible Change wording from Salaried to Management Clarify wording of Definitions and Classifications Update Eligibility for 401(k) Plan Provide more details of retiree eligibility & benefits offered	2.0 Various 3.0 5.1 5.2 and 5.3	Brenda Verdesi Manager, Benefits

Please refer to Employee Policy EP 0.0 NYPA DISCLAIMERS where you will find a statement which pertains to all Employee Policies including this one.

1 PURPOSE AND SCOPE

This policy defines the various categories of Management Authority employees and the benefits available to each category. Classification of exemption status is determined based on the job requirements in accordance with the Fair Labor Standards Act, as enforced by the U.S. Department of Labor.

2 APPLICABILITY

This policy applies to all management Authority employees.

Contingent workers whose compensation is paid directly by a third party, who are not paid directly through the Authority's payroll system, or who are classified by the Authority as consultants and/or independent contractors, are not eligible for or entitled to participate in or receive benefits under any benefit plan, policy, or practice offered by the Authority, its parents, affiliates, subsidiaries, or successors.

3 INITIALISMS (ACRONYMS) AND DEFINITIONS

Management – non-bargaining unit Authority employees

Full-time – Employees who work at least 37½ hours per week and who are paid directly by the Authority. Full-time employees can be classified as Permanent, Transitional, or Provisional. The Business Unit or Department determines the work week schedule of 37½ or 40 hours per week.

Part-time – Part time status is granted in the following cases:

a) Permanent employees who have worked full-time for a minimum of one year, and whose status has changed from full-time to part-time without a break in service (employment with the Authority has not been terminated); and who work a minimum of 20 hours per week, but less than 37½ or 40 hours (as applicable) and who are paid directly by the Authority.

b) Temporary employees hired on a part-time basis (minimum of 20 hours/week, but less than 37½ or 40 hours/week) for a specific position or assignment and who are paid directly by the Authority.

Classifications

3.1 **Permanent Employees** – employed on full time or part time basis, paid directly by the Authority and have no pre-determined employment time limit.
a) **Transitional position** – Permanent employees who work full-time to fill an anticipated vacancy in another Authority position within a designated time-frame up to one year.

3.2 **Provisional Employees** – Work full-time for a specific project or assignment for a period that is expected to last at least one year, but not more than three years and who are paid directly by the Authority.

3.3 Temporary Employees – Employed for a period of not more than one year (from date of hire) and are paid directly by the Authority. Requests to extend employment for an additional period beyond one year must be received and approved by headquarters Human Resources Department Head and the Budget Department.

Additional categories of Temporary Employees include:

a) Temporary Intern – employed on a full-time or part-time basis for a specific position or assignment, not to exceed six months in a given calendar year.

b) Developmental Intern – employed on a full-time or part-time basis while enrolled in an accredited college or university in a curriculum related to the temporary assignment at the Authority. Additional guidelines apply to Developmental Interns under the Human Resources Developmental Intern Program.

c) Cooperative– employed on a full-time basis while enrolled full-time at an accredited college or university in a work/study or cooperative education curriculum and who receives credits towards his/her course of study.

d) Returning Retiree – employees who have retired from the Authority and are rehired as a temporary employee to transition work or perform a specific project based on their unique experience, knowledge or skills, for a period not to exceed one year.

   i. Any requests to hire an Authority retiree (including Authority retirees who have suspended their pensions) must be approved by the President & Chief Executive Officer, Business Unit Head, SVP Human Resources & Enterprise Shared Services and VP, and Chief Ethics & Compliance Officer. The justification and the request for approval must contain documentation of the need to obtain the services of that individual and indicate that the returning retiree's compensation (i) will be set at her or his most recent Authority hourly rate of pay [no benefits] and (ii) will not exceed the applicable annual earnings limitation contained in the New York State Retirement and Social Security Law (NYSRSSL) or other applicable laws.

4 RESPONSIBILITY

Responsibility and oversight of this policy resides with the approver] unless otherwise noted here in.

5 POLICY IMPLEMENTATION

5.1 Benefits for Active Employees

Employees are eligible for the following benefits based on their category as defined in Section 3. For more detailed information about the applicable employee benefits as listed above, please refer to the Employee Benefits Handbook on the Powernet.

Flexibility Benefits				
	Permanent Full-time	**Permanent Part-time**	**Provisional**	**Temporary**
Medical	Eligible	Eligible	Eligible	If determined to be a "full-time equivalent" under the regulations of the Patient Protection and Affordable Care Act (PPACA), eligible as required by Federal Law
Dental; Vision; Hearing; Group Legal, Flexible Spending Accounts, Accidental Death& Dismemberment Insurance; Accident Expense Plan; Cancer Protection Plan	Eligible	Eligible	Eligible	Not Eligible
Employee, Spouse, Child Life Insurance	Eligible	Eligible – Employee life insurance is based on pro-rated pay	Not Eligible	Not Eligible
Long Term Disability Insurance	Eligible	Eligible – based on pro-rated pay	Not Eligible	Not Eligible
Long Term Care	Closed to new participants	Closed to new participants	Closed to new participants	Not Eligible
Flex Credits	Eligible	Eligible – based on a reduced flat amount	Eligible – based on a reduced flat amount	Not Eligible

Other Benefits				
	Permanent Full-time	**Permanent Part-time**	**Provisional**	**Temporary**
Educational Assistance Program	Eligible	Eligible – pro-rated based on the number of hours worked per week	Not Eligible	Not Eligible
Employee Assistance Program	Eligible	Eligible	Eligible	Eligible
Vacation Leave	Eligible	Eligible – pro-rated per EP 3.2	Eligible – per EP 3.2	Not Eligible
Sick Leave	Eligible	Eligible – pro-rated per EP 3.9	Eligible – per EP 3.9	Not Eligible
Holidays	Eligible	Eligible – if work less than a full day (as applicable to their respective job location) are eligible for compensation for holidays based on the number of hours worked per day. However, if an employee works less than a full week, and a holiday falls on a day an employee is not scheduled to work, he/she will not be paid for that day.	Eligible – except for holidays that fall on a day not schedule to work	Not Eligible – unless work on a holiday

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Retirement Benefits				
	Permanent Full-time	**Permanent Part-time**	**Provisional**	**Temporary**
Employees' Savings Plan	Eligible	Eligible	Eligible	Eligible after completing at least 1,000 Hours of Service in a Plan Year
Deferred Compensation Plan	Eligible	Eligible	Eligible	Eligible
New York State & Local Retirement System or Voluntary Defined Contribution Plan (for certain Tier 6 employees)	Mandatory Membership	Optional Membership – service credit is pro-rated based on the number of hours worked per week	Mandatory Membership	Optional Membership if period of employment is less than one year. Membership is mandatory for a full-time temporary employment that exceeds one year.

5.2 Eligibility for Benefits in Retirement

To qualify for Authority Retiree Benefits, you must:

5.2.1 be a Permanent Full-Time Authority Employee as defined in Section 3.1. Provisional, part-time, or temporary employees are not eligible for retiree benefits.

5.2.2 meet Authority service requirements in section 5.4 below; employees who were rehired by the Authority or transferred New York State service see EP 1.9 Transfer or Re-Employment in Public Service.

5.2.3 You must retire from the Authority and immediately collect retirement benefits from the New York State and Local Retirement System (if you are a member of Tiers 1 through 6).

5.2.4 Employees who participate in the New York State Voluntary Defined Contribution Plan must be age 55 and meet the criteria in 5.2.1 and 5.2.2.

5.2.5 Employees who were rehired or were direct transfers are required to complete service requirements under EP 1.9.

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pertaining to NYPA.

5.3 Benefits offered in Retirement

The Authority offers the following benefits in retirement: retiree medical coverage; post-retirement life insurance; Medicare Part B reimbursement; and the Employee Assistance Program. Details of the options are available in the Retiree Benefits Guide on the Powernet.

5.4 Cost of Retiree Medical Benefits

	Employee Hired/Rehired Before 01/01/2016		Employee Hired/Rehired on or After 01/01/2016
	Employee Retires on or before 01/01/2019	**Employee Retires after 1/1/2019**	
Retirement Eligibility*	10 Years of service	10 Years of service	15 Years of service
Retiree Contribution to Medical Coverage**	No contribution to any medical plan	No contribution if enrolled in the NYPA Plan. If enrolled in another plan, your contribution is 50 percent of the difference between the active employee contribution to the NYPA PPO Plan and the plan you enrolled in.	Retiree contribution is 50% of the active employee contribution

* The retirement eligibility refers to medical, life insurance, and Medicare Part B reimbursement benefits.

**The “active contribution” will be based on your enrollment (e.g. single or family coverage).

6 VIOLATIONS

N/A

7 REFERENCES

7.1 EP 1.9 Transfer or Re-Employment in Public Service [Powernet → Quick Links → Employee Policies → EP 1.9]

7.2 EP 3.2 Vacation [Powernet → Quick Links → Employee Policies → EP 3.2]

7.3 EP 3.9 Sick Leave [Powernet → Quick Links → Employee Policies → EP 3.9]

7.4 Employee Benefits Handbook [Powernet → Department Sites → Human Resources → Benefits]

7.5 Retiree Benefits Guide [Powernet → Department Sites → Human Resources → Benefits → Retirement Planning]

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8 POLICY REVIEW AND EXPIRATION

This document will be reviewed and updated as business needs require. However, a mandatory review will be required on the anniversary date of the approved document.

Revision Cycle: Every Other Year

9 ATTACHMENTS

N/A

E-Signature Approval History

Role	Name	Approved Date
Final Approver	Pizzo, Kristine	2/8/2019
Executive Owner	Saslow, Karina	2/5/2019
Content Owner	Verdesi, Brenda	2/5/2019

Title: Vacation

Document Type:	Employee Policy
Document Number:	EP 3.2
Revision Date:	12/18/2018
Final Approver:	*Pizzo, Kristine* SVP HR & Enterprise Shared Services
Executive Owner:	Saslow, Karina VP Total Compensation & HRIS
Content Owner:	Verdesi, Brenda Manager Benefits

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Vacation

Note: Revision # should be listed in descending order starting with most recent version at the top.

Revision Date(For BCG Use Only)	Revision #	Description/Modification	Revision Section (s)	Author
	14	Replace Vacation Donation clause with reference to new EP 3.11 Management Vacation Donation Policy Revise violations to reflect standard language	5.6 & 7.6 6	Karina Saslow, VP Total Compensation & HRIS
12/18/2018	13	Change wording from Salaried to Management Policy does not apply to contingent workers. Revise vacation accrual for employees on leave Submitting vacation requests Added wording about use of vacation during Family & Medical Leave Deceased employee accrued vacation will be paid out according to Legal Department procedures Clarify wording and change Vacation Buy-Back to Vacation Cash Out Added vacation donation policy (moved from EP 3.3 Family & Medical Leave policy)	Various 2.0 5.1.1(d) 5.2.1 5.2.4 5.4 (e) 5.5 5.6	Brenda Verdesi Manager, Benefits
04/10/2015	12	Converting to new format. There were 11 prior revisions of this Policy.	N/A	Brenda Verdesi Manager, Benefits

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1 PURPOSE AND SCOPE

NYPA recognizes the importance of vacation time in providing the opportunity for rest, recreation, and personal activities, and therefore grants annual paid vacation leave for its management employees.

2 APPLICABILITY

Permanent and provisional management employees that meet the eligibility criteria set forth in Section 5.1 Eligibility for Vacation (see EP 3.1, Management Employee Categories and Eligibility for Benefits Policy, for employee category definitions). Temporary employees are not eligible.

Contingent workers whose compensation is paid directly by a third party, who are not paid directly through the Authority's payroll system, or who are classified by the Authority as consultants and/or independent contractors, are not eligible for or entitled to participate in or receive benefits under any benefit plan, policy, or practice offered by the Authority, its parents, affiliates, subsidiaries, or successors.

3 INITIALISMS (ACRONYMS) AND DEFINITIONS

Management – non-bargaining unit NYPA employees.

4 RESPONSIBILITY

Responsibility and oversight of this policy resides with the approver unless otherwise noted here in.

5 POLICY IMPLEMENTATION

5.1 Eligibility for Vacation

5.1.1 Permanent full-time management employees are credited with vacation days as follows:

a) Employees are credited with 20 vacation days on January 1 of each year.

b) In an employee's first year of NYPA employment, vacation days are credited on a pro-rated basis (rounded up to the nearest half day), based on the employee's date of employment (1/12th of 20 vacation days, or 1 2/3 days for each month of service). For example, if employment began in April, the employee receives 15 vacation days for the year. If employment began in December, the employee receives two vacation days.

c) Employees who have 11 or more years of eligible NYPA service will be credited with an additional ½ vacation day on January 1 immediately after they attain 11 years of eligible service. (See EP 1.9, Transfer or Re-Employment in Public Service, for

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transferred time eligibility criteria.) For each succeeding year of service, another ½ day will be credited on the following January 1st of each year until a maximum of 25 days per year is credited upon the January 1st after reaching 20 years of service.

d) Employees on a personal leave of absence without pay, a medical leave extending beyond 12 weeks of FMLA (see EP 3.3), or long term disability on January 1, will not be credited with vacation days until they return to work, at which point vacation days will be credited on a pro-rated basis for the full months worked during the year. Employees who go out on a medical leave or a leave of absence without pay after being credited with their vacation days on January 1, and remain employees, will keep the vacation days that were granted on January 1.

5.1.2 Permanent part-time management employees are credited vacation days on a pro-rated basis contingent on the assigned number of hours worked per week. If part-time employees become full time during the year, their vacation days for the year will be adjusted on a pro-rated basis.

5.1.3 Provisional management employees, employed on January 1, are credited with 10 vacation days per year for their first two full years of employment, and 15 vacation days in their third year. In the first calendar year of provisional employment, vacation will be pro-rated for each month of service.

5.2 <u>Vacation Usage</u>

5.2.1 Employees are encouraged to submit vacation requests to Supervisors as far in advance as practicable. Some Business Units, Sites, or Departments may require the vacation request in writing. Supervisors will make every effort to accommodate requests, but must balance schedules and workloads in order to meet the department's needs.

5.2.2 New employees may use vacation time immediately with the approval of their supervisor.

5.2.3 Employees may use vacation days in full or half-day increments. However, supervisors may allow employees to make up lost time through flexible scheduling by working extra hours on other days instead of using vacation time.

5.2.4 An employee on an approved FMLA leave (see EP 3.3) who wants to use accrued vacation or floating holiday time to cover any part of that leave must make a request to Human Resources. Without notification, accrued vacation or floating holiday time will not be automatically applied. The use of vacation or floating holiday time does not alter the status of the leave as FMLA leave, extend the FMLA leave, or extend any Authority provided job security periods.

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5.2.5 Excessive requests for time off, or taking vacation time without prior approval, should be handled by supervisors as performance problems in accordance with EP 4.2, Performance Improvement Policy.

5.2.6 Once an employee has submitted a voluntary resignation or retirement, vacation usage is subject to supervisory approval. However, an employee must physically be at work on his/her last day of employment. Any action varying from the guidelines must be approved by the Head of Human Resources.

5.3 Vacation Carryover

Regardless of how many vacation days employees are credited with at the beginning of the year, no more than 40 vacation days may be carried over from year to year. For example, on December 31st an employee has the maximum vacation accumulation (40 days) and is credited with an additional 20 days on January 1, the employee's total balance would be 60 days on January 1. If by December 31 of that year the employee still has more than 40 days of accumulated vacation time, the vacation balance will be reduced to 40 days.

However, due to extenuating circumstances, any action varying from the guidelines may be approved by the respective Business Group and Business Unit/Department Heads with concurrence from the Human Resources Department Head or their designee. Any such request must be forwarded to the Human Resources Department Head as soon as possible and no later than January 10th of the year in which the vacation accumulation exceeds the 40-day maximum. If the request is granted, and the employee subsequently leaves the Authority, the employee would only be paid a maximum of 40 days' vacation upon termination of employment.

5.4 Pay in Lieu of Vacation

Payment in lieu of accumulated vacation, not exceeding a maximum of 40 days, may be made for employees who have completed at least six months of service under the following conditions:

a) When an employee resigns, provided the employee gives NYPA at least two weeks' written notice. Employees that resign without two weeks' notice will not be paid out for accrued vacation time.

b) When an employee's services are terminated by NYPA.

c) When an employee resigns and provides at least two weeks' notice, is terminated, or retires, the employee will receive payment for the current year's accumulated vacation on a pro-rated basis (1/12th of yearly vacation days for each month of service). This will be added to any days that were carried over from the prior year, up to a maximum vacation payment of 40 days. If an employee has already used

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property of NYPA.

more than the equivalent of 1/12th of their yearly vacation days for each month of service, payments for those days must be repaid to NYPA (to the extent possible, payment will be withheld from the employee's final paycheck).

d) When an employee resigns or is terminated prior to six months of service, the employee is not eligible for payment of vacation days, and payment for any vacation time taken within the first six months of employment must be repaid to NYPA (to the extent possible, payment will be withheld from the employee's final paycheck).

e) In the event of death, payment for unused vacation will be paid first to the beneficiary as named in the employee's group life insurance policy as permissible under the NYS Surrogates Court Procedure Act § 1310 ("SCPA") with the remainder (if any) being paid to the estate of the decedent. If no allocation is permissible under the SCPA, the entire amount of unused vacation will be paid to the estate of the decedent.

5.5 Vacation Cash Out Program

5.5.1 If a vacation cash out is offered and announced by Human Resources, employees will be advised of the number of accrued vacation days they can request to be paid by NYPA. Once the payment is made to the employee, his/her vacation accrual will be reduced by the number of days paid out.

5.5.2 When the announcement is made by Human Resources, employees must submit a Vacation Cash Out Request form to Payroll within the specified timeframe. The form is available on the Powernet under Payroll Forms. Requests received after the announcement deadline date will not be honored or processed.

5.5.3 The vacation "cash out" check will be issued separately from the regular bi-weekly paychecks. In addition to taxes, Employees' Savings Plan (401(k) plan) and Deferred Compensation Plan (457 plan) deductions, if applicable, will be withheld from the check. Employees' Savings Plan or Retirement System loan repayments will not be deducted from the check.

5.5.4 The vacation "cash out" payment does not constitute salary as defined by the Retirement and Social Security Law. Therefore, Tier 3 through 6 contributions, if applicable, will not be deducted from the vacation cash out check, nor will the cash out be reported to the Retirement System as wages. Therefore, the value of the "cash out" will not be included in the calculation of an employee's Final Average Salary.

5.6 Vacation Donation Program

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Employees who wish to donate vacation accruals to a Vacation Donation Bank may do so if they meet the criteria for donating. See EP 3.11 Management Vacation Donation.

a) Under IRS regulations, donations are taxable compensation based on the donor's rate of pay at the time of donation and will be treated as W-2 wages for the donor.

b) Payments received by an employee from the Bank are also treated as W-2 wages for all income and employment tax withholding purposes.

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6 VIOLATIONS

Violations of this Policy and related policies and procedures by employees may result in disciplinary action up to and including termination.

7 REFERENCES

7.1 EP 1.9, Transfer or Re-Employment in Public Service
7.2 EP 3.1, Management Employee Categories and Eligibility for Benefits Policy
7.3 EP 4.2, Performance Improvement Policy
7.4 EP 3.3, Family and Medical Leave Act Policy
7.5 Vacation Cash Out Request form
7.6 EP 3.11 Management Vacation Donation Policy

8 POLICY REVIEW AND EXPIRATION

This document will be reviewed and updated as business needs require. However, a mandatory review will be required on the anniversary date of the approved document.

Revision Cycle: Every Other Year

9 ATTACHMENTS

N/A

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E-Signature Approval History

Role	Name	Approved Date
Final Approver	Pizzo, Kristine	12/18/2018
Executive Owner	Saslow, Karina	12/10/2018
Content Owner	Verdesi, Brenda	12/9/2018

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Title: Employee Assistance Program

Document Type:	Employee Policy
Document Number:	EP 3.5
Revision Date:	1/2/2019
Final Approver:	*Pizzo, Kristine* SVP HR & Enterprise Shared Services
Executive Owner:	Saslow, Karina VP Total Compensation & HRIS
Content Owner:	Verdesi, Brenda Manager Benefits

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Employee Assistance Program

Note: Revision # should be listed in descending order starting with most recent version at the top.

Revision Date(For BCG Use Only)	Revision #	Description/Modification	Revision Section (s)	Author
	6	Changed text from Facility HR Managers to designated HR Representative. Clarified minor wording in policy Removed language for the management of performance issues Changed cycle to every other year	Various Various 5.2 8.0	Brenda Verdesi, Manager, Benefits
1/2/2019	5	Uploaded information to a new format. This policy had four (4) revisions under the old format. Contingent workers are not eligible If an employee refuses to comply with a mandatory EAP referral, the employee may be subject to disciplinary action up to and including termination of employment.	N/A 2.4 6.0	Brenda Verdesi, Manager, Benefits

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1 PURPOSE AND SCOPE

The Authority provides the Employee Assistance Program (EAP) as a confidential counseling, assessment and referral service that can help employees and their family members with issues including, but not limited to, stress and anxiety, mental and emotional problems, alcohol and drug dependencies, marital and family problems, legal and financial issues, childcare, adult care, and work related problems. These services are provided through an independent, third party provider.

2 APPLICABILITY

2.1 At any time of any day employees using a toll free phone number, 1-800-833-8707, may directly contact a confidential Employee Assistance Counselor at the EAP. Additionally, employees may contact the EAP through Employee Relations in the White Plains office and/or their site HR Representative.

2.2 The EAP may also be used for referrals of employees by supervisors in conjunction with Human Resources, or by Human Resources independently, as further set forth in this Policy.

2.3 There is no charge to employees (and/or their family members) for services provided by the EAP. However, if employees or their family members are referred by the EAP to other professionals for additional care, treatment and/or assistance, the employee or family member will be responsible for any costs not covered by their health insurance.

2.4 Contingent workers whose compensation is paid directly by a third party, who are not paid directly through the Company's payroll system, or who are classified by the Company as consultants and/or independent contractors, are not eligible for or entitled to participate in or receive benefits under any benefit plan, policy, or practice offered by the Authority, its parents, affiliates, subsidiaries, or successors.

3 INITIALISMS (ACRONYMS) AND DEFINITIONS

BAC – Blood Alcohol Content
EAP - Employee Assistance Program
MRO - Medical Review Officer

4 RESPONSIBILITY

Responsibility and oversight of this policy resides with the SVP, Human Resources and Enterprise Shared Services unless otherwise noted herein.

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5 POLICY IMPLEMENTATION

5.1 Confidentiality

5.1.1 A vital aspect of this program's success is confidentiality in handling employees' personal issues. Therefore, the utmost care will be taken by the EAP and Human Resources to preserve the dignity and privacy of the individual. This policy will be administered in accordance with all applicable laws.

5.1.2 The EAP adheres to legal and professional responsibilities applying to mental health professionals. Accordingly, EAP staff is legally required to break confidentiality and report any individuals judged to be a hazard to themselves or others to the appropriate authorities within and outside of the Authority.

5.1.3 When an employee (and/or their family members) contacts the EAP on their own, their identity will be withheld from the Authority. However, if there is reasonable belief that the employee's condition may constitute a hazard to themselves or others, EAP staff will notify Employee Relations, or designee, in the White Plains office.

5.2 Referrals to EAP

5.2.1 Supervisors should NOT at any time attempt to diagnose an employee's condition.

5.2.2 When a supervisor is of the opinion that an employee may pose a hazard to himself/herself or other employees, the supervisor shall immediately contact Employee Relations. At the sites, the supervisor shall contact the designated HR Representative. Employee Relations will arrange for a mandatory EAP referral if appropriate.

a) Following a supervisory referral, Employee Relations will contact EAP on behalf of the employee. Either the employee will be asked to contact EAP or the EAP will contact the employee and assess the situation. If needed, the EAP will make a referral to other outside resources for treatment. The EAP representative will notify Employee Relations that the employee has been contacted.

5.2.3 If the employee is referred to the EAP and will require time away from work or cannot return to work, he/she may be placed on leave in accordance with the Authority's leave policies or applicable labor agreement. Employees placed on leave as a result of an EAP intervention must be cleared by the EAP, or another qualified medical provider, before returning to work.

5.2.4 Referral to or use of the EAP does not excuse employees from complying with Authority policies or from meeting expected job requirements and performance, during or after receiving assistance or treatment. Nor does referral to or participation in the EAP preclude the Authority from instituting appropriate disciplinary action or performance assessment of an employee.

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5.3 Fitness for Duty Referral

5.3.1 In accordance with the Fitness for Duty policy (EP 4.5) certain employees may be subject to mandatory referral to the EAP.

5.3.2 If an employee appears unfit for duty in accordance with the (EP 4.5), Employee Relations in the White Plains office and/or the designated HR Representative at the site should be contacted immediately. The supervisor or the person(s) who observe the employee's behavior should document their observations as soon as possible.

5.3.3 When an employee is referred to the EAP for Fitness for Duty, the employee must be cleared by the EAP, or another qualified medical provider, before returning to work. When a Fitness for Duty referral is made to the EAP, the Authority will be advised of the nature of the problem if one exists. The employee will be required to sign an authorization and consent to the release of information to the Authority.

5.3.4 If an employee is required to be tested on a random basis and has a confirmed positive test for alcohol at .04 Blood Alcohol Content (BAC) and above, but below the applicable regulatory threshold, the employee may be immediately referred to the EAP. If an employee tests positive for drugs or alcohol, he/she will be subject to follow-up periodic, unannounced testing to verify abstinence from the use of alcohol or drugs. Employee Relations/Facilities Human Resources, in collaboration with the EAP, will ensure that the employee is Fit for Duty before returning to work (EP 4.5).

5.3.5 If an employee tested on a random basis has a confirmed positive test for illegal drugs, substance, or alcohol abuse (at or above the applicable regulatory threshold) as certified by a Medical Review Officer (MRO), the employee will be immediately referred to the EAP. Employee Relations should be notified so that appropriate action can be taken.

6 VIOLATIONS

If an employee refuses to comply with a mandatory EAP referral, the employee may be subject to disciplinary action up to and including termination of employment.

7 REFERENCES

7.1 Fitness for Duty (EP 4.5)

8 POLICY REVIEW AND EXPIRATION

This document will be reviewed and updated as business needs require. However, a mandatory review will be required on the anniversary date of the approved document.

Revision Cycle: Every Other Year

Printed copies are not controlled.
For the latest revision of this document, refer to the Policy and Procedure PowerNet Site.
Records will be retained in accordance with NYPA's approved records retention schedules and/or in compliance with all applicable legal requirements pertaining to NYPA.

9 ATTACHMENTS

N/A

Printed copies are not controlled.
For the latest revision of this document, refer to the Policy and Procedure PowerNet Site.
Records will be retained in accordance with NYPA's approved records retention schedules and/or in compliance with all applicable legal requirements pertaining to NYPA.

E-Signature Approval History

Role	Name	Approved Date
Final Approver	Pizzo, Kristine	1/2/2019
Executive Owner	Saslow, Karina	12/17/2018
Content Owner	Verdesi, Brenda	12/16/2018

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For the latest revision of this document, refer to the Policy and Procedure PowerNet Site.
Records will be retained in accordance with NYPA's approved records retention schedules and/or in compliance with all applicable legal requirements pertaining to NYPA.

Title: Management Vacation Donation Program

Document Type:	Employee Policy
Document Number:	EP 3.11
Revision Date:	12/12/2018
Final Approver:	*Pizzo, Kristine* SVP HR & Enterprise Shared Services
Executive Owner:	Saslow, Karina VP Total Compensation & HRIS
Content Owner:	Verdesi, Brenda Manager Benefits

Printed copies are not controlled.
For the latest revision of this document, refer to the Policy and Procedure PowerNet Site.
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Management Vacation Donation Program

Note: Revision # should be listed in descending order starting with most recent version at the top.

Revision Date(For BCG Use Only)	Revision #	Description/Modification	Revision Section (s)	Author
12/12/2018	0	Original Issue – Replaces Vacation Donation Program from EP 3.2 Vacation section 5.6		Karina Saslow VP, Total Compensation & HRIS

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For the latest revision of this document, refer to the Policy and Procedure PowerNet Site.
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Please refer to Employee Policy EP 0.0 NYPA DISCLAIMERS where you will find a statement which pertains to all Employee Policies including this one.

1 PURPOSE AND SCOPE

NYPA recognizes that employees may have a family emergency or a personal crisis that causes a severe impact to them resulting in a need for additional time off in excess of their available sick/personal time. To help these employees, the Vacation Donation Program now allows staff to donate vacation time to be held in a bank for staff to use when on leave for a Critical Personal Situation.

2 APPLICABILITY

2.1 The Vacation Donation Bank (referred to as the Bank) is a general bank that has been voluntarily donated to by eligible NYPA employees from their unused vacation balances. As time donated from employees will differ in value, the allocation and distribution of this leave will be calculated based on value and not time. Donations into the Bank will be valued at the salary of the donor at the time of donation and payouts will be valued at the salary of the recipient at the time of request.

2.2 Under IRS regulations donations are taxable compensation based on the donor's rate of pay at the time of donation, and will be treated as W-2 wages for the donor. Payments received by an employee from the Bank are also treated as W-2 wages for all income and employment tax withholding purposes.

2.3 This Bank is for use by active eligible management employees who are in Critical Personal Situations and are in need of additional paid time off.

2.4 All eligible employees will be allowed to donate annual leave from their unused vacation balances to eligible co-workers in need in accordance with the policy outlined below. This policy is strictly voluntary.

2.5 Eligible employees applies to NYPA permanent, transitional or provisional, full-time or part-time, management employees. Bargaining unit employees are not eligible to participate in the vacation donation program set forth in this policy.

3 INITIALISMS (ACRONYMS) AND DEFINITIONS

Committee – The review committee will be made up of members from Human Resources and the Executive Management Committee (EMC).

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For the latest revision of this document, refer to the Policy and Procedure PowerNet Site.
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Critical Personal Situation - a personal crisis of a severe nature that directly impacts the employee. This may be a critical or catastrophic illness or injury of the employee (non-work related) or an immediate family member (spouse, domestic partner, child, parent or other relationship in which the employee is the legal guardian or sole caretaker) that poses a threat to life and/or requires inpatient or hospice health care. A critical personal situation may also include a natural disaster impacting the employee's primary residence, such as a fire or severe storm.

Domestic Partner – Domestic partner whose eligibility documentation has been verified and approved by the designated Human Resources Representative in the White Plains Office according to the Authority Domestic Partner qualifying criteria as outlined in the guidelines [Powernet – Human Resources – Benefits – Healthcare Plans – Domestic Partner Guide]

Management – non-bargaining unit NYPA employees.

Permanent Employees – employed on full time or part time basis, paid directly by the Authority and have no pre-determined employment time limit. (See EP 3.1)

a) **Transitional position** – Permanent employees who work full-time to fill an anticipated vacancy in another Authority position within a designated time-frame up to one year.

Provisional Employees – Work full-time for a specific project or assignment for a period that is expected to last at least one year, but not more than three years and who are paid directly by the Authority. (See EP 3.1)

4 RESPONSIBILITY

Responsibility and oversight of this policy resides with the approver unless otherwise noted here in.

5 POLICY IMPLEMENTATION

5.1 Criteria for Donating Leave

a. All eligible employees who choose to donate vacation must have a minimum of 1 year service, and must meet the guidelines outlined below. Only employees who have donated unused vacation balances can apply to participate in the plan as a recipient.

1. Donors must have a minimum of 5 days remaining in their vacation balance after donating vacation day(s).
2. Employees must donate at least 1 day each calendar year to remain active in the plan year, which is the following calendar year. There is no maximum as to how many days one can donate.
3. Employees cannot borrow against future vacation leave to donate.

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4. All donations must be in full day increments only.
5. Part-time employees who donate may donate their full day equivalent, and their participation in the plan will be calculated on a pro-rated basis.
6. Employees on 12 hour shift schedules who donate will donate an 8 hour day equivalent, and their participation in the plan will shift them to 8 hr/day, 5 day/week shift.
7. Employees may not donate their time during the donation period if actively on a leave of absence.
8. Donations are to a general bank, and not to a specific employee.
9. All donations are irrevocable.
10. Donors will remain anonymous.

5.2 Eligibility for Receiving Leave

a. All eligible employees who have donated leave and have one year of service with NYPA are eligible to participate. Guidelines are as follows:

1. Employees who would like to make a request to receive donated leave must have circumstances that qualify as a Critical Personal Situation.
2. All requests must be made on the Critical Personal Situation Request Form.
3. Employees making the request must have depleted all sources of paid time off, including sick time, vacation time, floating holidays, New York State Paid Family Leave (if applicable) and salary continuance (if applicable, EP 3.10).
4. Employees will not be granted leave from the donation Bank instead of, or as a supplement to, long-term disability benefits.
5. Full-time employees who are eligible to receive donated leave may receive up to 4 weeks in a 12-month period calculated as the 12-month period measured forward from the first day of Vacation Donation usage. Time can be taken consecutively or intermittently in full days. Part-timers may receive up to 4 weeks at a pro-rated amount.
6. All time allocated from the donation Bank will be converted and distributed based on dollar value of the recipients' rate of pay at the time of request, not by donated hours.
7. Illnesses and/or injuries may not be job-related.
8. Illnesses and/or injuries must be supported by acceptable medical documentation as determined by the review committee. By signing the application for this paid leave, employees are agreeing that their personal information may be shared with the Committee making decisions on this request. Every effort will be made to maintain confidentiality.

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9. No donated leave will be made in excess of the amount which will result in a negative balance to the donation Bank. Balances in the Bank will be considered before distribution is made to ensure that equitable distributions are made to applicants.
10. Employees will be considered on a leave of absence (includes personal leave, Family Medical Leave, etc.) while receiving vacation pay from the Bank. This leave will run concurrent with any other leave.
11. Accruals (vacation/floating holidays/sick) will be suspended while on this leave.
12. Holidays that fall within the leave period may not be used to extend the leave period. They will be paid as part of the vacation donation and not as holiday pay.
13. Employees must continue to pay their portion of their benefit premiums.
14. Any unused time will be donated back to the Bank.
15. Such requests are not in lieu of a Reasonable Accommodation request. Approved Reasonable Accommodations may run concurrently with Critical Personal Situation Leave.

5.3 Procedure

a. Donations to the Bank will be held annually as part of the Vacation cash out period. Employees who would like to participate in the program must complete the information required on the annual Vacation cash out form. Employees who donate time to the plan will be eligible to participate in the plan the following calendar year (i.e., donations provided at the end of 2019 will be effective for 1/1/2020 – 12/31/2020). With the introduction of the new program for 2019, employees can begin donating in 2018. Employees requesting time from the Bank will not be required to donate in 2018 to make a request.

b. Employees who would like to make a request to receive donated leave are required to complete a Critical Personal Situation Leave Request Form and submit to Human Resources White Plains Benefits department.

c. Requests for Critical Personal Situation Leave will be reviewed and approved by a special committee. Responses to requests will be in writing within 3 business days.

6 VIOLATIONS

Violations of this Policy and related policies and procedures by employees may result in disciplinary action up to and including termination.

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For the latest revision of this document, refer to the Policy and Procedure PowerNet Site.
Records will be retained in accordance with NYPA's approved records retention schedules and/or in compliance with all applicable legal requirements pertaining to NYPA.

7 REFERENCES

EP 3.1 Management Employee Categories & Eligibility for Benefits [Powernet→ Quick Links →Employee Policies → EP 3.1]
EP 3.2 Vacation [Powernet → Quick Links → Employee Policies → EP 3.2]
EP 3.3 Family and Medical Leave Act FMLA [Powernet → Quick Links → Employee Policies → EP 3.3]
EP 3.10 Management Salary Continuation [Powernet → Quick Links → Employee Policies → EP 3.10]

8 POLICY REVIEW AND EXPIRATION

This document will be reviewed and updated as business needs require. However, a mandatory review will be required on the anniversary date of the approved document.

Revision Cycle: Every Year

9 ATTACHMENTS

Attachment 9.1: Critical Personal Situation Leave Request Form [Powernet – Human Resources – Benefits – Forms – Miscellaneous]

Printed copies are not controlled.
For the latest revision of this document, refer to the Policy and Procedure PowerNet Site.
Records will be retained in accordance with NYPA's approved records retention schedules and/or in compliance with all applicable legal requirements pertaining to NYPA.

E-Signature Approval History

Role	Name	Approved Date
Final Approver	Pizzo, Kristine	11/14/2018
Executive Owner	Saslow, Karina	11/13/2018
Content Owner	Verdesi, Brenda	11/13/2018

Amended Approval History

Requestor Name: Saslow, Karina

Comments: Changed Catastrophic Leave to Critical Personal Situation Leave

Name	Approved Date
Garcia, Carol	12/12/2018

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For the latest revision of this document, refer to the Policy and Procedure PowerNet Site.
Records will be retained in accordance with NYPA's approved records retention schedules and/or in compliance with all applicable legal requirements pertaining to NYPA.

NEW YORK STATE OF OPPORTUNITY | Canal Corporation

Policy Title:
M/C Navigation Season Stipend

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1 of

Title: M/C Navigation Season Stipend

Document Type: Employee Policy

Revision Date: 10/25/2018

Reviewer	Name	Title
This document has been reviewed by: Business	Lisa Wright	Manager, Administrative Services
Legal	Lori Alesio	Associate General Counsel

Content Owner	Signature	Date
Name: Nancy Bowen Title: Assoc. Director, Human Resources	Nancy A Bowen	10/31/2018

Approver	Signature	Date
Name: Vera Pimipiano Title: Sr. Manager Payroll	Vera A Pimpiano	10/31/2018

Approver	Signature	Date
Name: Karina Saslow Title: VP, Total Compensation & HRIS	Karina S Saslow	11/2/18

Printed copies are not controlled.
For the latest revision of this document, refer to the Canal Corporation Office of Human Resources.
Records will be retained in accordance with Canal's approved records retention schedules and/or in compliance with all applicable legal requirements pertaining to Canals.

M/C Navigation Season Stipend

Note: Revision # should be listed in descending order starting with most recent version at the top

Revision Date(For BCG Use Only)	Revision #	Description/Modification	Revision Section (s)	Author
10/25/2018	0	Original Issue		

1 PURPOSE AND SCOPE

In alignment with the collective bargaining agreement between the NYS Canal Corporation and the Public Employees Federation (PEF), Canal Corporation will provide specific Management Confidential titles with an annual bi-weekly Navigation Season Stipend recognizing the requirement that these roles need to be available outside their normal work hours to respond to problems that may arise. This availability is critical to the safety and smooth operation of the Canal System and our ability to troubleshoot and triage issues quickly.

2 APPLICABILITY

Canal Management Confidential Section Superintendent titles, Salary grade 23. These roles are responsible for the daily operation of the canal system and are on call 24/7 to respond to incidents.

This program may be modified at any time at the discretion of Canal Management.

3 INITIALISMS (ACRONYMS) AND DEFINITIONS

M/C – Management Confidential

PEF – Public Employee Federation (Union)

4 RESPONSIBILITY

Canal Human Resources

5 POLICY IMPLEMENTATION

5.1 Provide a $2,400 annual stipend paid bi-weekly for the duration of the Navigation Season as defined by the business each calendar year.

a. Incumbents will only receive payment for time served in the Section Superintendent position during the Navigation Season and will receive compensation in the same manner as the PEF employees eligible for this Stipend.

6 VIOLATIONS

N/A

7 REFERENCES

N/A

8 POLICY REVIEW AND EXPIRATION

This document will be reviewed and updated as business needs require. However, a mandatory review will be required on the anniversary date of the approved document.

Revision cycle : Every Year

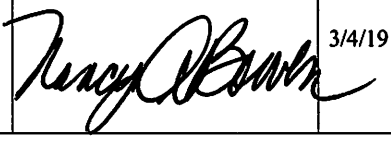
9 ATTACHMENTS

N/A

Title: Management/Confidential Employee Handbook
Document Number: CCP-2018-004

Revision Date: [Revision Date]

Reviewer	Name	Title
This document has been reviewed by:	Lori Alesio	Associate General Counsel, HR & Labor

Content Owner	Signature	Date
Name: Nancy Bowen Title: Associate Director, Human Resources - Canals		3/4/19

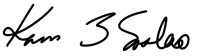
Approver	Signature	Date
Name: Karina Saslow Title: VP, Total Compensation & HRIS		3/4/2019

Exhibit A

2019 Mission Statement and Strategic Plan

MISSION	1
VISION	1
VALUES	2
CORPORATE STRATEGIC GOALS	3
STRATEGIC INITIATIVES	4

MISSION

Our Mission is to …

Power the economic growth and competitiveness of New York State by providing customers with low cost, clean, reliable power and the innovative energy infrastructure and services they value.

VISION

Our vision is an end-to-end digital Power Authority that enables a thriving New York State through the provision of sustainable, affordable energy, stewardship of the state's natural resources and leadership in innovative technologies and energy efficiency services.

VALUES

Integrity –We will operate at the highest level of honesty, ethical conduct, and public trust in all of our activities.

Safety –We will always strive to encourage and support an accident-free workplace for our employees.

Employee Development –We value our employees and will invest in their development.

Job Development –We will utilize our power resources to support the creation and retention of New York State jobs

Sustainability –We will manage all aspects of our business through the lens of sustainability, which holistically integrates business objectives with environmental and social concerns (i.e., the "triple bottom line" approach).

Clean Energy –We are committed to the efficient use of energy and promoting clean power supply technologies.

Stakeholder Management –We will aggressively build awareness of NYPA's Mission and purpose by cultivating positive relationships with our Stakeholders – customers, public officials, regulatory agencies, community representatives, and other opinion leaders – to ensure they support us and share in our commitment.

Financial Strength –We will maintain NYPA's financial strength so as to have the financial resources needed to fulfill our Mission.

CORPORATE STRATEGIC GOALS

Customer Success:

This goal is defined as making customer success our success

.

Cost Leadership:

This goal is defined as continuing to manage the risk of electricity price volatility for the Authority's customers by ensuring that they enjoy the best value energy bill.

Innovation:

This goal is defined as leading the State in accelerating and innovating new technologies and business models that help create value for the Authority and its customers.

STRATEGIC INITIATIVES

Customer Solutions:

Transforming the way NYPA engages with its customers.

Asset Management:

Ensuring NYPA has optimal understanding and visibility of our assets to make informed decisions with respect to the allocation of investments.

Smart Generation and Transmission:

Creating and maintaining a backbone of intelligent, flexible and resilient transmission and generation infrastructure.

Workforce Planning:

Creating a dynamic, engaged and upwardly mobile workforce of the future.

Knowledge Management:

Developing a flexible, creative and empowered workforce.

Process Excellence:

Optimizing process performance across the enterprise.

CUSTOMER PROMISES

Become the market leader for both energy efficiency and renewable energy services

Offer the best deal, by far, in electricity commodity management for our supply customers

Have the largest market share of new transmission and large scale renewable projects

Lead in energy storage and electric vehicle infrastructure and services

Exhibit A
March 26, 2019

2018 Confidential Evaluation of NYPA/Canal Board Performance

Criteria	Agree	Somewhat Agree	Somewhat Disagree	Disagree
1. Board members have a shared understanding of the mission and purpose of:				
a. the Authority.	7			
b. Canal Corporation.	7			
2. The policies, practices and decisions of the Board are always consistent with the mission and purpose of:				
a. the Authority.	6	1		
b. Canal Corporation.	6	1		
3. Board members comprehend their role and fiduciary responsibilities and hold themselves and each other to these principles.	7			
4. The Board adopts and reviews annually policies, by-laws, and practices for the effective governance, management and operations of:				
a. the Authority.	7			
b. Canal Corporation.	7			
5. The Board sets clear and measurable performance goals that contribute to accomplishing its mission for the Authority:				
a. the Authority.	6	1		
b. Canal Corporation.	6	1		
6. The decisions made by Board members are arrived at through independent judgment and deliberation, free of political influence, pressure or self-interest.	5	2		
7. Individual Board members communicate effectively with executive staff so as to be well informed on the status of all important issues.	5	2		
8. Board members are knowledgeable about the programs, financial statements, reporting requirements, and other transactions of:				
a. the Authority.	6	1		
b. Canal Corporation.	5	2		
9. The Board meets to review and approve, where required by law, all documents and reports prior to public release and is confident that the information being presented is accurate and complete on behalf of:				
a. the Authority.	6	1		
b. Canal Corporation.	5	2		
10. The Board knows the statutory obligations and compliance status with laws applicable to:				
a. the Authority.	7			
b. Canal Corporation.	6	1		
11. Board and committee meetings facilitate open, deliberate and thorough discussion, and the active participation of members.	6	1		
12. Board members have sufficient opportunity to research, discuss, question and prepare before decisions are made and votes taken.	6	1		
13. Individual Board members feel empowered to delay votes, defer agenda items, or table actions if they feel additional information or discussion is required.	6	1		
14. The Board exercises appropriate oversight of the CEO and other executive staff, including setting performance expectations and reviewing performance annually.	7			
15. The Board has identified the areas of most risk and works to implement risk mitigation strategies before problems occur with management of:				
a. the Authority.	7			
b. Canal Corporation	7			
16. Board members demonstrate leadership and vision and work respectfully with each other.	7			

Date Completed: 3/4/19

Document Title:
Guidelines for the Disposal of Canal Corporation Real Property

Exhibit A
March 26, 2019

Guidelines for the Disposal of Canal Corporation Real Property

Note: Revision # should be listed in descending order starting with most recent version at the top

Revision Date(For BCG Use Only)	Revision #	Description/Modification	Revision Section (s)	Author
	1	Conversion to new Canal document template	All	Allison Renstrom Shea Special Counsel

NEW YORK STATE OF OPPORTUNITY | Canal Corporation

Document Title:
Guidelines for the Disposal of Canal Corporation Real Property

Contents

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2 Applicability 3
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NEW YORK STATE OF OPPORTUNITY | Canal Corporation

Document Title:
Guidelines for the Disposal of Canal Corporation Real Property

1 PURPOSE AND SCOPE

The purpose of these Guidelines for the Disposal of Real Property ("Guidelines"), which comply with Title 5-A, Article 9 of the Public Authorities Law, is to establish the procedures that detail the Canal Corporation's ("Corporation") policy and instructions regarding the disposal of real property. In addition, the Guidelines designate a Contracting Officer who is responsible for the Corporation's compliance with, and enforcement of, the Guidelines.

The powers and duties relating to the New York State canal system, which were transferred to and merged with the Power Authority ("Power Authority") pursuant to Canal Law Section 5, may be exercised by the Power Authority directly or through the Corporation on behalf of the people of the State of New York.

2 APPLICABILITY

This Policy applies to all New York State Canal Corporation employees who intend to Dispose of Real Property owned by or under the jurisdiction of the New York State Canal Corporation.

3 INITIALISMS (ACRONYMS) AND DEFINITIONS

Contracting Officer - shall mean the officer or employee appointed by resolution of the Corporation's Trustees to be responsible for compliance with, and enforcement of, the Guidelines for the Disposal of Real Property. The "Contracting Officer" is hereby designated to be the Power Authority Vice President – Enterprise Shared Services, or equivalent(s) or designee.

Corporation – Canal Corporation

Dispose or Disposal - shall mean transfer of title or any other beneficial interest in real property in accordance with these Guidelines. Disposal does not include a release of an easement, Permit or Transfer of Jurisdiction.

Fair Market Value - shall mean the estimated dollar amount that a willing buyer would pay to a willing seller for the Real Property in an arms-length transaction in the appropriate marketplace and under similar circumstances.

OGS – NYS Office of General Services

PAL – Public Authorities Law

Permits - shall mean permits issued by the Corporation that grant revocable privileges to use or access real property or structures under the jurisdiction of the Corporation and for the diversion of Canal waters for sanitary, farm or industrial purposes. Permits are revocable in part to assure availability of the real property for Corporation or public purposes. Permits do not transfer a beneficial interest in real property and may be issued when deemed to be advantageous to the Corporation for the purpose of cutting, gathering and hauling away ice from the canals or when the permitted use does not result in a detriment to canal navigation or damage to the banks or other structures thereof. Permits include Occupancy and Work Permits.

a) **Occupancy Permit** - a revocable instrument that authorizes the temporary, restricted use of real property under the jurisdiction of the Corporation, including, temporary use of Canal lands or structures, and for the diversion of Canal waters for sanitary, farm or industrial purposes.

b) **Work Permit** - a revocable instrument that authorizes construction, maintenance, inspection, survey, or other type of work or short term activity on real property under the jurisdiction of the Corporation.

Real Property - shall mean real property, including land, tenements and hereditaments owned by the Corporation, and any other interest in such real property, to the extent that such interest may be conveyed to another person or entity for any purpose, excluding an interest securing a loan or other financial obligation of another party.

Relative - shall mean any person living in the same household as the Corporation employee or any person who is a direct descendant of the Corporation employee's grandparents or the spouse of such descendant.

Transfers of Jurisdiction - shall mean transactions pursuant to Public Lands Law §3(4) and which are between the Corporation and other State governmental entities where jurisdiction over Real Property is transferred and reassigned on such terms and conditions as the Corporation and the New York State Office of General Services deem proper, but the title to the Real Property remains in the name of the People of the State of New York.

4 RESPONSIBILITY

The Board shall adopt by resolution Guidelines for the Disposal of Canal Corporation Real Property regarding the use, awarding, monitoring and reporting of contracts for the disposal of Real Property and which designate a Contracting Officer who is responsible for compliance with and enforcement of, these Guidelines.

5 PROCEDURE IMPLEMENTATION

5.1 COMPLIANCE OVERVIEW

The Public Authorities Law ("PAL") requires the Corporation to establish policy guidelines to accomplish the following:

5.1.1 Ensure that the Corporation's contracting activities comply with Title 5-A, Article 9 of the Public Authorities Law, the Corporation's enabling statute, and any other applicable law pertaining to the Disposal of Real Property.

5.1.2 Maintain inventory controls and accountability systems for all Real Property under the Corporation's control.

5.1.3 Periodically inventory Corporation Real Property to determine which Real Property shall be disposed of.

5.1.4 Dispose of Corporation Real Property interests as promptly as possible in accordance with the PAL.

5.1.5 Prepare annual reports of Real Property Disposal transactions.

5.2 DISPOSITION OF CORPORATION REAL PROPERTY

5.2.1 The Corporation may Dispose of Real Property for not less than the Fair Market Value of such Real Property by sale, exchange, or transfer, for cash, credit or other property, without warranty, and upon such other terms and conditions as the Contracting Officer deems proper under the provisions of the PAL and as implemented by these Guidelines. Fair Market Value of the Corporation Real Property subject to Disposal shall be established by independent appraisal as appropriate and consistent with the intent of the PAL. Such appraisal documents shall be included in the record of the Real Property Disposal transaction.

5.2.2 Except as set forth in Sections 5.2.3 and 5.2.4 herein of the Guidelines, any Disposal of Real Property shall only be made after publicly advertising for bids in accordance with the following:

a) the advertisement for bids shall be made at such time prior to the Disposal or contract, through such methods, and on such terms and conditions as shall permit full and free competition consistent with the value and nature of the Real Property; and

b) all bids shall be publicly disclosed at the time and place stated in the advertisement; and

c) the award shall be made with reasonable promptness by notice to the responsible bidder whose bid, conforming to the invitation for bids, will be most advantageous to the Corporation, price and other factors considered; provided, that all bids may be rejected when it is in the public interest to do so.

5.2.3 The Disposal of Corporation Real Property by Negotiation or Public Auction

a) The Disposal of Corporation Real Property may be negotiated or made by public auction without regard to Section 5.2.2 but subject to obtaining such competition as is feasible under the circumstances, if:

1. the Fair Market Value of the Real Property does not exceed fifteen thousand dollars ($15,000.00); or
2. bid prices after advertising therefore are not reasonable, either as to all or some part of the Real Property, or have not been independently arrived at in open competition; or
3. the Disposal will be to the state or any political subdivision, and the estimated Fair Market Value of the Real Property and other satisfactory terms of Disposal are obtained by negotiation; or
4. under those circumstances permitted by Section 5.2.4; or
5. such action is otherwise authorized by law.

b) The Disposal of Corporation Real Property may also be made by negotiated sale without regard to Section 5.2.2 but subject to obtaining such competition as is feasible under the circumstances, if ALL of the following conditions have been satisfied:

1. the Corporation has determined that: such real property is no longer necessary or useful to the purposes of the Corporation; disposal of such real property complies with all applicable provisions of the canal law; and disposal of such real property is in the best interest of the Corporation; and
2. an appraisal of the fair market value of such property has been made by an independent appraiser and included in the record of the transaction; and
3. the fair market value of such real property is greater than fifteen thousand dollars ($15,000.00) but not greater than seventy-five thousand dollars ($75,000.00); and

4. such real property was improved prior to April 1, 1992 under a municipal permit or a permit issued pursuant to Section 100 of the Canal Law, thereby creating an encroachment on Corporation Real Property; and
5. the purchaser of such Real Property is, or will be, the owner of the improvement that either fully or partially encroaches on Corporation real property; and
6. the consideration paid for such real property will not be less than the fair market value of the real property exclusive of the value, fair market or otherwise, of the encroaching improvements.

5.2.4 Below Fair Market Value

a) No Real Property owned, leased or otherwise in the control of the Corporation may be sold, leased, or otherwise alienated for less than its Fair Market Value except if:

1. the transferee is a government or other public entity, and the terms and conditions of the transfer require that the ownership and use of the Real Property will remain with the government or any other public entity; or
2. the purpose of the transfer is within the purpose, mission or governing statute of the Corporation; or
3. in the event the Corporation seeks to transfer Real Property for less than its Fair Market Value to other than a governmental entity, which Disposal would not be consistent with the Corporation's mission, purpose or governing statutes, the Corporation shall provide written notification thereof to the Governor, the Speaker of the Assembly, and the Temporary President of the Senate, and such proposed transfer shall be subject to denial by the Governor, the Senate, or the Assembly. Denial by the Governor shall take the form of a signed certification by the Governor. Denial by either House of the Legislature shall take the form of a resolution by such House. The Governor and each House of the Legislature shall take any such action within sixty days of receiving notification of such proposed transfer during the months of January through June, provided that if the Legislature receives notification of a proposed transfer during the months of July through December, the Legislature may take any such action within sixty days of January first of the following year. If no such resolution or certification is performed within sixty days of such notification of the proposed transfer to the Governor, Senate, and Assembly, the Corporation may effectuate such transfer.

b) In the event a below Fair Market Value Real Property transfer is proposed, the following information must be provided to the Corporation’s Board of Trustees and the public:

1. a full description of the Real Property; and
2. an appraisal of the Fair Market Value of the Real Property and any other information establishing the Fair Market Value sought by the Corporation’s Board of Trustees; and

3. a description of the purpose of the transfer, and a reasonable statement of the kind and amount of the benefit to the public resulting from the transfer, including but not limited to the kind, number, location, wages or salaries of jobs created or preserved as required by the transfer, the benefits, if any, to the communities in which the Real Property is situated as are required by the transfer; and
4. a statement of the value to be received compared to the Fair Market Value; and
5. the names of any private parties participating in the transfer, and if different than the statement required by subparagraph (iv) of this paragraph, a statement of the value to the private party; and
6. the names of other private parties who have made an offer for such Real Property, the value offered, and the purpose for which the Real Property was sought to be used.

d) Before approving the Disposal of any Real Property for less than Fair Market Value, the Corporation's Board of Trustees shall consider the information described in Paragraph 5.2.4.b and make a written determination that there is no reasonable alternative to the proposed below-market transfer that would achieve the same purpose of such transfer.

5.2.5 An explanatory statement detailing the Disposal by negotiation of Corporation Real Property subject to the PAL as set forth in Section 5.2.3.a shall be made for any Disposal of:

a) Real Property with a Fair Market Value in excess of one hundred thousand dollars ($100,000.00) except that Real Property Disposed of by lease or exchange shall only be subject to Paragraph 5.2.5.b of this Section 5.2.5; or

b) Real Property Disposed of by lease if the fair annual rent over the term of the lease is in excess of fifteen thousand dollars ($15,000.00); or

c) Any Real Property or real and related personal property Disposed of by exchange, regardless of value, or any property any part of the consideration is for Real Property.

5.2.6 Each explanatory statement prepared in accordance with Section 5.2.5 above shall be transmitted to the State Comptroller, the Director of the Division of the Budget, the Commissioner of General Services, the State Legislature and the State Authorities Budget Office not less than 90 days in advance of such Disposal, and a copy shall be kept by the Corporation.

5.2.7 In the Corporation's discretion, when it shall be deemed advantageous to the Corporation and the State, the Corporation may enter into an agreement with the Office of the Commissioner of the Office of General Services ("OGS") under which OGS may Dispose of the Corporation's Real Property under terms and conditions agreed to by the Corporation and the OGS. In Disposing of any such Real Property of the Corporation, the OGS shall be bound by the relevant provisions of the PAL.

5.2.8 No Corporation employee who is involved in the award of Corporation grants or contracts, may ask any purchaser(s), grantor(s), lessor(s) or officer(s), director(s) or employee(s) of such current or prospective purchaser(s), contractor(s) or grantee(s) to reveal: (a) the political party affiliation of the individual; (b) whether the individual or entity has made campaign contributions to any political party, elected official, or candidate for elective office; or (c) whether the individual voted for or against any political party, elected official or candidate for elective office.

5.2.9 No Corporation employee may award or decline to award any grant or contract, or recommend, promise or threaten to do so because of a current or prospective grantee's or contractor's: (a) refusal to answer any inquiry prohibited by Section 5.2.8 above or (b) giving or withholding or neglecting to make any contribution of money, service or any other valuable thing for any political purpose.

5.2.10 No Corporation employee may take part in any contracting decision involving the payment of more than $1,000: (i) to a Relative; or (ii) to any entity in which a Relative owns or controls 10% or more of the stock of such entity (or 1% in the case of a corporation whose stock is regularly traded on an established securities exchange); or serves as an officer, director or partner of that entity. If such situation arises, the employee must advise his or her supervisor of the relationship, and must be recused from any and all discussions or decisions relating to the matter.

5.2.11 Public Authority Contracts

a) Public Authorities Law Section 2879-a establishes a framework for the Office of the State Comptroller ("OSC") to review and approve certain Public Authority contracts.

b) Any contract in excess of $1,000,000 that is to be awarded by a state authority 1) to a "single source" or "sole source", or pursuant to any other means of procurement that is not competitive, or 2) where the monies to be paid in whole or in part have been appropriated by the state to the state authority for such contractual expenditure ("Eligible Contract"), must be reported in advance of execution to the OSC. Upon execution, all such Eligible Contracts must be filed with the OSC within 60 days.

c) If the OSC has previously identified a contract or category of contract as "reviewable" ("Reviewable Contract)", such contract must include language stating that it is subject to OSC approval and the executed Reviewable Contract must be submitted

to the OSC for review. If the OSC does not act to disapprove the Reviewable Contract within 90 days, the contract is valid.

5.3 CORPORATION REAL PROPERTY REPORTS

5.3.1 The Corporation shall publish the following reports in accordance with these Guidelines:

a) Pursuant to Section 2800 of the Public Authorities Law, the Corporation shall furnish a report for incorporation in the Corporation's annual report which is distributed to the Governor, the Chairman and Ranking Minority Member of the Senate Finance Committee, the Chairman and Ranking Minority Member of the Assembly Ways and Means Committee, the State Comptroller and the State Authorities Budget Office. This report shall include (a) a listing of all Real Property having an estimated Fair Market Value greater than fifteen thousand dollars ($15,000.00) that the Corporation Disposed of during such reporting period and the name of the purchaser of the Real Property and the price paid by the purchaser for the Real Property, and (b) a description of the total amounts of Real Property sold without competitive bidding, including (i) the nature of the Real Property, (ii) the names of the counterparties, and (iii) where the price for the Real Property sold is less than Fair Market Value, a detailed explanation of the justification for making the sale without competitive bidding, and a certification by the Power Authority's Chief Executive Officer and Chief Financial Officer that they have reviewed the terms of such sale and determined that it complies with applicable law.

b) Pursuant to Public Authorities Law § 2896(3), the Corporation shall prepare for distribution to the State Comptroller, the Director of the Division of the Budget, the Commissioner of General Services, the State Legislature and the State Authorities Budget Office, an annual report listing all real property of the Corporation, which report shall include a list and description of all Real Property Disposed of during the fiscal reporting period. Regarding Disposals, this annual report shall include the price received by the Corporation and the name of the purchaser of the Real Property.

5.3.2 The Corporation may be called upon periodically to submit information regarding the Disposal of Real Property to organizations implementing the PAL or other statutes regulating the Disposal of Real Property.

5.3.3 The Canal Corporation's Governance Committee meets at least three times per year and Corporation staff may be required to prepare and present ongoing reports regarding the Disposal of Real Property.

5.4 APPROVAL OF GUIDELINES BY THE AUTHORITY'S BOARD

The Guidelines shall be annually reviewed and approved by the Corporation's Board of Trustees. On or before the thirty-first day of March in each year, the Corporation shall file with the State Comptroller a copy of the most recently reviewed and approved Guidelines, including the name of the Corporation's designated Contracting Officer. At the time of filing such Guidelines with the State Comptroller, the Corporation shall also post such Guidelines on its internet website.

6 VIOLATIONS

Violations of these Guidelines and related policies and procedures by employees may result in disciplinary action up to and including termination. In addition, where the conduct engaged in is illegal, violators may be subject to prosecution under applicable federal, state or local laws.

7 REFERENCES

Canal Law
Public Authorities Law

8 PROCEDURE REVIEW AND EXPIRATION

This document will be reviewed and updated as business needs require. However, a mandatory review will be required on the anniversary date of the approved document.

Revision cycle: Every Year

9 ATTACHMENTS

N/A

Document Title:
Guidelines for the Acquisition of Real Property by the Canal Corporation

Exhibit B
March 26, 2019

Guidelines for the Acquisition of Real Property by the Canal Corporation

Note: Revision # should be listed in descending order starting with most recent version at the top

Revision Date(For BCG Use Only)	Revision #	Description/Modification	Revision Section (s)	Author
6/6/2017	1	Conversion to new Canal document template	All	Allison Renstrom Shea Special Counsel

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1 PURPOSE AND SCOPE

These Guidelines for the Acquisition of Real Property ("Guidelines"), which comply with Title 2, Article 9 of the Public Authorities Law, establish the procedures that detail the Canal Corporation's ("Corporation") policy and instructions regarding the acquisition of real property. In addition, the Guidelines designate a contracting officer who is responsible for the Corporation's compliance with, and enforcement of, the Guidelines.

The powers and duties relating to the New York State canal system, which were transferred to and merged with the Power Authority of the State of New York ("Power Authority") pursuant to Section 5 of the Canal Law, may be exercised by the Power Authority directly or through the Corporation on behalf of the people of the State of New York.

2 APPLICABILITY

These Guidelines apply to all New York State Canal Corporation employees who intend to Acquire Real Property for the New York State Canal Corporation.

3 INITIALISMS (ACRONYMS) AND DEFINITIONS

Contracting Officer - shall mean the officer or employee appointed by resolution of the Corporation's Trustees to be responsible for compliance with, and enforcement of, the Guidelines for the acquisition of real property. The "Contracting Officer" is hereby designated to be the Power Authority Vice President - Enterprise Shared Services, or the equivalent(s), or designee.

Corporation – Canal Corporation

Acquisition or Acquire – shall mean to obtain title to or any other beneficial interest in real property in accordance with applicable statutes and these Guidelines.

Fair Market Value – shall mean the estimated dollar amount that a willing buyer would pay to a willing seller for the Real Property in an arms-length transaction in the appropriate marketplace and under similar circumstances.

OSC – Office of the State Comptroller

PAL – Public Authorities Law

PARIS – Public Authorities Reporting System

Real Property – shall mean real property, including land, tenements and hereditaments owned by the Corporation, and any other interest in such real property, to the extent that such interest may be conveyed to another person or entity for any purpose, excluding an interest securing a loan or other financial obligation of another party.

Relative – is any person living in the same household as the Corporation employee or any person who is a direct descendant of the Corporation employee's grandparents or the spouse of such descendant, as referred to in Article 5 of these Guidelines.

4 RESPONSIBILITY

The Board shall adopt by resolution Guidelines for the Acquisition of Canal Corporation Real Property and which designate a Contracting Officer who is responsible for compliance with and enforcement of, these Guidelines.

5 PROCEDURE IMPLEMENTATION

5.1 COMPLIANCE OVERVIEW

5.1.1 These Guidelines are being adopted consistent with the Public Authorities Law ("PAL").

5.1.2 The Corporation may Acquire Real Property through purchase, eminent domain, state transfers of jurisdiction, lease and by other legal means.

5.1.3 The Corporation's New York statutory authority for land acquisition includes, without limitation, the Canal Law, the Public Authorities Law, the Real Property Law, the Public Lands Law, the Eminent Domain Procedure Law and the Highway Law, as amended.

5.2 DUTIES OF THE CORPORATION

5.2.1 The Corporation will maintain adequate inventory controls and accountability systems for all Real Property under the Corporation's control.

5.2.2 Real Property to be Acquired by the Corporation will be in support of existing facilities, operations or in support of new initiatives being pursued by the Corporation.

5.2.3 The compensation for and the procedure for such Acquisition must be consistent with these Guidelines and the Corporation's Real Estate Expenditure Authorization Procedures as amended.

5.2.4 The Corporation will arrange for the transfer or Acquisition of any Real Property identified for Acquisition in accordance with these Guidelines and the Corporation's Real Estate Expenditure Authorization Procedures and as soon as reasonably practical under the circumstances.

5.2.5 Public Authorities Law Section 2879-a establishes a framework for the Office of the State Comptroller ("OSC") to review and approve certain contracts.

a) Any contract in excess of $1,000,000 that is to be awarded by a state authority 1) to a "single source" or "sole source", or pursuant to any other means of procurement that is not competitive, or 2) where the monies to be paid in whole or in part have been appropriated by the state to the state authority for such contractual expenditure ("Eligible Contract"), must be reported in advance of execution to the OSC. Upon execution, all such Eligible Contracts must be filed with the OSC within 60 days.

b) If the OSC has previously identified a contract or category of contract as "reviewable" ("Reviewable Contract)", such Reviewable Contract must include language stating that it is subject to OSC approval and the executed Reviewable Contract must be submitted to the OSC for review. If the OSC does not act to disapprove the Reviewable Contract within 90 days, the contract is valid.

5.3 ETHICAL CONSIDERATIONS

5.3.1 No Corporation employee who is involved in the Acquisition of Real Property, may ask any purchaser, grantor, lessor or officers, directors or employees of such current or prospective purchaser, grantor or lessor to reveal: (a) the political party affiliation of the individual; (b) whether the individual or entity has made campaign contributions to any political party, elected official, or candidate for elective office; or (c) whether the individual voted for or against any political party, elected official or candidate for elective office.

5.3.2 No Corporation employee may take part in any Acquisition decision involving the payment of more than $1,000: (i) to a Relative; or (ii) to any entity in which a Relative owns or controls 10% or more of the stock of such entity (or 1% in the case of a corporation whose stock is regularly traded on an established securities exchange); or serves as an officer, director or partner of that entity. If such situation arises, the

employee must advise his or her supervisor of the relationship, and must be recused from any and all discussions or decisions relating to the matter.

5.4 ACQUISITION REPORTS BY THE CORPORATION

5.4.1 The Corporation shall publish the following reports in accordance with these Guidelines:

a) Pursuant to Section 2800 of the Public Authorities Law, the Corporation shall furnish a report for incorporation in the Corporation's annual report which is distributed to the Governor, the Chairman and Ranking Minority Member of the Senate Finance Committee, the Chairman and Ranking Minority Member of the Assembly Ways and Means Committee, the State Comptroller and the State Authorities Budget Office. This report shall include (a) a listing of all Real Property having an estimated Fair Market Value greater than fifteen thousand dollars ($15,000.00) that the Corporation Acquired during such reporting period and the name of the seller of the Real Property and the price paid by the Corporation for the Real Property, and (b) a description of the total amounts of Real Property purchased without competitive bidding, including (i) the nature of the Real Property, (ii) the names of the counterparties, and (iii) where the price for the Real Property purchased exceeds Fair Market Value, a detailed explanation of the justification for making the purchase without competitive bidding, and a certification by the Power Authority's Chief Executive Officer and Chief Financial Officer that they have reviewed the terms of such purchase and determined that it complies with applicable law.

b) The Corporation may be called upon periodically to submit information regarding the Acquisition of Real Property to organizations implementing the PAL or other statutes regulating the Acquisition of Real Property, such as the Authority Budget Office through the Public Authorities Reporting System ("PARIS").

c) The Corporation's Governance Committee meets at least three times per year and Corporation staff may be required to prepare and present ongoing reports regarding the Acquisition of Real Property.

6 VIOLATIONS

Violations of these Guidelines and related policies and procedures by employees may result in disciplinary action up to and including termination. In addition, where the conduct engaged in is illegal, violators may be subject to prosecution under applicable federal, state or local laws.

7 REFERENCES

Public Authorities Law

8 PROCEDURE REVIEW AND EXPIRATION

This document will be reviewed and updated as business needs require. However, a mandatory review will be required on the anniversary date of the approved document.

Revision cycle: Every Year

9 ATTACHMENTS

N/A

Exhibit C
March 26, 2019

NEW YORK STATE CANAL CORPORATION
2018 ANNUAL REPORT OF DISPOSAL (CONVEYANCE) OF REAL PROPERTY OVER $15,000 IN VALUE

Purchaser's Name	Price Realized by the Corporation	Parcel Acres	Transfer Date
David and Diane Kaiser	$40,000	0.89	1/26/2018
Thomas Pirro	$26,101	3.95	4/13/2018
City of Utica	$50,000	0.97	6/18/2018
Utica Harbor Point Redevelopment Corp.	$0	16.50	7/05/2018
Clifton Park Water Authority	$576,700 (10 year lease)	680.0	2/19/2018
Hanson Aggregates New York LLC	$42,720 (5 year lease)	4.90	4/20/2018
Village of Watkins Glen	$40,000	8.60	11/01/2018

Exhibit "A-1"
March 26, 2019

CANAL CORPORATION OF THE STATE OF NEW YORK
2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS

EXECUTIVE SUMMARY

The Canal Corporation (Canals) runs the New York State Canal System, which includes the Erie, Champlain, Oswego and Cayuga-Seneca canals. Spanning 524 miles, the waterway links the Hudson River with the Great Lakes, the Finger Lakes and Lake Champlain. In 2017, the Canal Corporation celebrated the 200th anniversary of the groundbreaking for the Erie Canal, which occurred in the city of Rome on July 4, 1817. The Canal System includes the Erie Canalway Trail, a multi-use trail designed to accommodate pedestrians, bicyclists, and cross-country skiers. Together, the canals and trail create a world-class recreation way that is a vibrant, scenic and unique New York resource.

The Canal Corporation has been fully integrated into the NYPA procurement process and all related contracts for goods and services.

PROCUREMENT GUIDELINES (Exhibit "A-2")

In compliance with the applicable provisions of § 2879 of the Public Authorities Law ("PAL"), as amended, the Authority has established comprehensive Guidelines for Canals detailing its operative policy and instructions concerning the use, awarding, monitoring and reporting of procurement contracts. The Guidelines describe the Canal's process for soliciting proposals and awarding contracts. Topics detailed in the Guidelines include solicitation requirements, evaluation criteria, contract award process, contract provisions, change orders, Minority- and Women-owned Business Enterprise ("MWBE") and Service-Disabled Veteran-Owned Business ("SDVOB") requirements, employment of former officers and reporting requirements. These Guidelines mirror the Authority's Guidelines. The Authority Guidelines which are approved by their Trustees, were initially implemented on January 1, 1990, amended as deemed advisable and necessary, and reviewed and approved by the Board annually since that date, most recently on March 20, 2018. The Canal Board last approved these Guidelines on March 20, 2018.

Staff has reviewed the Procurement Guidelines and recommends several changes to make them more consistent with the law or to improve or clarify the Canal's procurement process. These Guidelines, as reviewed by the Governance Committee on March 26, 2019, are now presented to the full Board for review and approval at this annual meeting of the same date. The approved Guidelines will become effective on March 31, 2019 and will be posted on the Canal's internet website. Along with the Authority's Guidelines they will also be filed with the Director of the Division of the Budget, the Department of Audit and Control, the Department of Economic Development, the Senate Finance Committee, the Assembly Ways and Means Committee and the Authorities Budget Office within 90 days of the end of the calendar year.

ACCOMPLISHMENTS

Major procurement efforts in 2018 include the purchase of hopper barges, push boats and a hydraulic dredge, Syracuse Inner Harbor dredging, Rochester East Guard Lock Rehabilitation, Albion Waste Weir Rehabilitation, DeRuyter Reservoir Dam Rehabilitation, statewide Canal Structures Dam Safety Inspections, and the continuation of the Canalway Trail projects.

SUPPLIER DIVERSITY PROGRAM ("SDP")

From January to December 2018, the Authority and the Canal Corporation expended $76.8 Million or 22.4% of its reportable expenditures to New York State-certified MWBEs. This includes direct contracts and subcontracts, as well as construction and energy efficiency-related work. Additionally, Treasury transactions with NYS-certified MWBE financial dealers for the calendar year 2018 resulted in $875.8 Million or 48.6% in principal sales and purchases for the Authority.

Service-Disabled Veteran-Owned Business (SDVOB) utilization for the period January – December 2018 for both the Authority and Canal is approximately $10.2 Million or 46% of designated spend. Additionally, SDVOB financial dealers transacted over $362.7 Million or 20.1% in principal sales and purchases during the same period.

CREDIT CARD PROCUREMENT SYSTEM (CCPS)

In 2018 the Canal Corporation CCPS program expanded to approximately 129 cardholders totaled more than $2.8 million in spend for the year. Canals averaged 1012 transactions per month with an average single transaction value of approximately $237. The average monthly value was $239,986.

2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS (Exhibit "A-3")

The full Annual Report of Procurement Contracts includes Authority, Canal, Fuel and Financial contracts, and the Canal Corporation portion has been provided here as Exhibit A-3. The Annual Report includes specific details for procurements with a value of $5,000 or greater that were open, completed or awarded in 2018, including contracts that were extended into 2019 or beyond. There were 519 such Canal contracts with an estimated value of more than $252 million, with a total procurement expenditures in 2018 exceeded $58 million.

The following is a breakdown of the total value of active contracts:

- 61% Construction Services;
- 13% Equipment and Commodities including IT Hardware;
- 1% Architectural and Engineering Services and Legal Services;
- 15% Personal Service contracts such as professional consulting services;
- 10% Non-Personal Service contracts such as maintenance, repairs, technicians and contingent workforce

Based on the total value of the contracts reported ($252 million), that approximately 99% of contracts were competitively bid. In 2018, approximately 1% of contracts were sole/single-source awards. The sole/single-source awards included, but were not limited to, the purchase of spare parts and services from original equipment manufacturers (OEM), procurements from proprietary sources, procurements required on an emergency basis.

Exhibit A-2
March 26, 2019

CANAL CORPORATION GUIDELINES FOR PROCUREMENT CONTRACTS

1. PURPOSE

These Guidelines for Procurement Contracts ("Guidelines") set forth the policy of Canal Corporation regarding the solicitation and awarding of Procurement Contracts. The provisions of Article 4-C of the Economic Development Law, §§ 2879 and 2879-a of the Public Authorities Law, Articles 15-A and 17-B of the Executive Law and §§ 139-j and 139-k of the State Finance Law were considered in developing these Guidelines. Departments and facilities may adopt further procedures to implement these Guidelines.

2. DEFINITIONS

A. "Procurement Contracts" are contracts for the acquisition of goods and/or services in the actual or estimated amount of $5,000 or more. Such goods and/or services are those necessary to support the Canal Corporation offices, facilities, operations and maintenance ("O&M") and capital projects (as defined in Section 2.O. and 2. P., respectively), including but not limited to goods such as office supplies, major electrical equipment, construction and maintenance work and services as more fully described in Section 2.C below.

B. "Non-Procurement Contracts" include contracts valued under $5,000, certain insurance and healthcare products that do not readily lend themselves to a competitive solicitation, contracts for the direct placement of advertisements with radio, television, print and electronic media, periodicals, subscriptions, reference materials or professional research tools, written materials, fees or tuition associated with continuing education courses, training courses, conferences, seminars and symposiums, funding agreements, co-funding agreements, grants or memberships in various industry groups, professional societies or similar cooperative associations, or any cooperative projects and procurement activities conducted or sponsored by such organizations in which the Canal Corporation participates.

C. "Services Contracts" are Procurement Contracts for services of a consulting, professional or technical nature provided by outside consultants/contractors (individuals, partnerships or firms who are not and do not employ officers or employees of the Canal Corporation) for a fee or other compensation. Services Contracts comprise three specific types: Personal Services, Non-Personal Services and Construction. Personal Services include, but are not limited to: accounting, architectural, engineering, financial advisory, legal, public relations, planning, management consulting, surveying, training (when specifically developed by consultant for the Canal Corporation) and construction management. Non-Personal Services include, but are not limited to: skilled or unskilled temporary personnel, including clerical office staff, technicians or engineers working under Canal Corporation supervision; maintenance, repairs, and printing services.

Construction consists of craft labor and other services utilizing laborers and/or mechanics not otherwise considered Non-Personal Services.

> Note: Use of such services may be appropriate (1) when a consultant/contractor possesses special experience, background or expertise; (2) when there is insufficient Canal Corporation staff and retention of a consultant/contractor is more appropriate or economical than hiring additional permanent staff; (3) to provide independent external review or a second opinion; (4) to meet unusual schedule requirements or emergencies or (5) for a combination of these factors.

D. "Goods" include equipment, material and supplies of any kind. Procurement Contracts that include both equipment and services may be classified as "Equipment" where 60% or more of the total projected contract value will be for the purchase of equipment, material or supplies

E. "Evaluation of Proposals," as further set forth in Section 4 below, includes as evaluating factors the Canal Corporation consideration of a bidder's skill, judgment and business integrity.

F. "Contact" is any oral, written or electronic communication with the Canal Corporation under circumstances where a reasonable person would infer that the communication was intended to influence the Canal Corporation conduct or decision regarding the procurement.

G. "Relative" is any person living in the same household as the Authority employee or any person who is a direct descendant of the Authority employee's grandparents or the spouse of such descendant, as referred to in Subsection 9.E.1 of these Guidelines. The term Relative may include, but is not limited to, the relationship of spouse, child, parent, sister, brother, grandparent, grandchild, aunt, uncle, cousin, niece, nephew, stepchild, stepparent, stepsister, stepbrother, mother-in-law, father-in-law, sister-in-law, brother-in-law, daughter-in-law or son-in-law.

H. "Minority- and Women-owned Business Enterprise" ("MWBE") is defined as any New York State-certified business enterprise at least 51% of which is owned by black persons, Hispanics, Native Americans, Asians, Pacific Islanders and/or women, and as further described in the Canal Corporation Supplier Diversity Program Policy and Procedures and Executive Law Article 15-A, and pursuant to the definition found in Executive Law § 310.

I. "Small Business" (or Small Business Enterprise, "SBE"), pursuant to Executive Law § 310 and as used in these Guidelines, unless otherwise indicated, is a business that has a significant business presence (as defined at 5 NYCRR 140.1) in New York State, is independently owned and operated, not dominant in its field and employs not more than 300 people.

J. "Single Source" is a procurement in which the Canal Corporation, upon written findings setting forth material and substantial reasons, may award a contract (or amendment to a contract) to one offeror over another that can supply the goods or services.

K. "Sole Source" is a procurement in which only one offeror is capable of supplying the required goods or services.

L. "Service-Disabled Veteran-Owned Business" ("SDVOB") is a business enterprise, including a sole proprietorship, partnership, limited liability company or corporation that is at least 51% owned by one or more service-disabled veterans; in which such ownership is real, substantial and continuing, and also has and exercises the authority to control independently the day-to-day business decisions of the enterprise; is a Small Business and is certified by the New York State Office of General Services, as further set forth in Article 17-B of the Executive Law.

M. "Discretionary Purchase" is a procurement made below statutorily established monetary threshold amounts (e.g., not exceeding $200,000 for the purchase of commodities and/or services from Small Business Enterprises or NYS-certified MWBE firms, and without a dollar cap for SDVOB firms, as further set forth in Sections 3.D and 3.K.5-7) and at the discretion of the Canal Corporation, without the need for a formal competitive bid process. For the purpose of determining whether a purchase is within the discretionary thresholds, the aggregate amount of all purchases of the same commodities and/or services to be made within the 12-month period commencing on the date of purchase shall be considered. A change to or a renewal of a discretionary purchase shall not be permitted if the change or renewal would bring the reasonably expected aggregate amount of all purchases of the same commodities and/or services from the same provider within the 12-month period commencing on the date of the first purchase to an amount greater than $200,000, pursuant to State Finance Law § 163.

N. "Disadvantaged Business Enterprise" (DBE) is a for-profit small business concern (1) that is at least 51 percent owned by one or more individuals who are both socially and economically disadvantaged or, in the case of a corporation, in which 51 percent of the stock is owned by one or more such individuals; and (2) whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individuals who own it, pursuant to the definition found in 49 C.F.R Part 26.

O. "Operation and Maintenance" ("O&M") generally refers to the work or services necessary to keep the plants, transmission lines, and other equipment and facilities to include NYPA customers, where authorized, (collectively referred to generally as an "asset") in optimal operating condition and/or to restore an asset to its productive capacity. This includes the cost of inspecting, testing, analyzing and

reporting on the condition of the asset required to determine repairs or replacement, as well as costs associated with the normal operation and administration of NYPA's production/transmission facilities and energy programs.

P. "Capital projects" generally refers to the acquisition or construction of new assets, the replacement and/or betterment of existing assets, equipment or property (including those of NYPA's customers, where authorized). Betterment refers to an extension of the useful life or improvement in the efficiency and/or capacity of the asset, equipment or property.

3. SOLICITATION REQUIREMENTS

A. Preparation of the solicitation of proposals for Procurement Contracts is the joint responsibility of the White Plains Strategic Supply Management ("SSM") Department, or the Canal Corporation SSM Department, and the initiating department. Except as otherwise authorized by these Guidelines, a Request for Proposals ("RFP") or Request for Quotations ("RFQ") will be made available to a minimum of three providers and/or firms (if available) for purchases valued under $50,000 and a minimum of five providers and/or firms (if available) for purchases valued at $50,000 and greater, commensurate with the magnitude and nature of the goods and/or services, and the schedule for performance.

B. Prospective bidders on Procurement Contracts may be prequalified by invitation advertised in the same manner as an RFP/RFQ (referred to as a Request for Qualifications and/or Request for Information ("RFI"). In such cases, proposals are requested only from those providers and/or firms whose prequalification submittals demonstrate sufficient ability and competence (including, but not limited to, the bidder's skill, judgment and business integrity) to supply the particular goods and/or perform the particular services required.

C. The Canal Corporation may withdraw any pending solicitation (including but not limited to RFPs and RFQs) at any time, for cause or no cause. Any person or entity submitting any responsive document to the Canal Corporation does so at its own cost or expense and will not be reimbursed by the Canal Corporation for the preparation of any responsive document, unless otherwise agreed to in writing and signed by an authorized Canal Corporation representative.

D. In order to promote the use of Minority- and Women-owned Business Enterprises ("MWBEs"), Service-Disabled Veteran-Owned Businesses ("SDVOBs") and Small Business Enterprises ("SBEs"), the Canal Corporation will solicit offers from such firms known to have experience in the type of goods and/or services to be provided, regardless of the type of contract. For the purpose of these Guidelines, the definitions of NYS-certified MWBE or SDVOB firms and SBEs are set forth in Sections 2.H, 2.L and 2.I, respectively.

To foster increased use of MWBEs and SBEs, a single proposal may be sought, negotiated and accepted for discretionary purchases of goods and/or services not exceeding $200,000, in the aggregate including all amendments, from a NYS-certified MWBE or an SBE that offers a reasonable price for such goods and/or services. An SDVOB may be awarded on the basis of a single proposal that offers a reasonable price for such goods and/or services without a dollar cap. The award of such proposal requires the written approval of the Vice President, SSM. Any subsequent alteration to the accepted proposal, including, but not limited to, change orders, amendments, or supplemental terms shall also necessitate the written approval of the Vice President, SSM. Furthermore, the award of such Procurement Contracts will be noticed on the *Contract Reporter* website, as further set forth in Section 3.H.

E. It is the policy of New York State to promote the participation of and maximize the opportunities for New York State Business Enterprises and New York State residents in Procurement Contracts. The Canal Corporation will endeavor to promote such participation and to comply with the applicable statutory provisions. In furtherance of Public Authorities Law § 2879, the following definitions and actions apply:

1. "New York State Business Enterprise" is a business enterprise, including a sole proprietorship, partnership or corporation that offers for sale or lease or other form of exchange, goods sought by the Canal Corporation that are substantially manufactured, produced or assembled in New York State or services, excluding construction services, sought by the Canal Corporation that are substantially performed within New York State as further described in Public Authorities Law § 2879.

2. "New York State resident" is a person who maintains a fixed, permanent and principal home in New York State to which such person, whenever temporarily located, always intends to return as further described in Public Authorities Law § 2879.

3. "Foreign Business Enterprise" is a business enterprise, including a sole proprietorship, partnership or corporation, that offers for sale, lease or other form of exchange, goods sought by the Canal Corporation that are substantially produced outside New York State, or services other than construction services, sought by the Canal Corporation that are substantially performed outside New York State as further described in Public Authorities Law § 2879. For purposes of construction services, Foreign Business Enterprise is a business enterprise, including a sole proprietorship, partnership or corporation, which has its principal place of business outside New York State.

4. "Discriminatory Jurisdiction" is any country, nation, province, state or political subdivision thereof which employs a preference or price distorting mechanism

to the detriment of, or otherwise discriminates against, a New York State Business Enterprise in the procurement of goods and/or services by the same or a non-governmental entity influenced by the same.

5. Pursuant to Public Authorities Law § 2879, the Canal Corporation shall not enter into a contract with a Foreign Business Enterprise which has its principal place of business in a Discriminatory Jurisdiction contained on the list prepared by the Commissioner of the New York State Department of Economic Development ("DED"). The provisions of this section may be waived by the NYPA's President and CEO if the CEO determines in writing that it is in the best interests of the Canal Corporation to do so, as further set forth in the above-referenced law.

6. Pursuant to Public Authorities Law § 2879, the Canal Corporation will, where feasible, make use of the stock item specification forms of New York State manufacturers, producers and/or assemblers, as made available by the Commissioner of General Services, for any Procurement Contract for the purchase of goods.

F. Certain goods and/or services may be procured pursuant to Procurement Contracts let by any department, agency, officer, political subdivision or instrumentality of the State (e.g., the New York State Office of General Services ("OGS")) or Federal government (e.g., General Services Administration ("GSA")) or any city or municipality where the White Plains SSM Department, or Canal Corporation SSM Department, and the initiating department determine that a reasonable potential exists for cost savings or other benefits to the Canal Corporation and have approved the specifications and proposed terms and conditions of such contract.

Certain Procurement Contracts established by the OGS or GSA require that authorized users conduct a "mini-bid" (i.e., an abbreviated supplemental competitive bid procurement process) among prequalified bidders identified in such established contracts. Certain other Procurement Contracts issued by the Canal Corporation (e.g., for on-call consulting or contracting services) may also utilize a mini-bid process, typically, in cases of a multiple award, where a contract is awarded to more than one bidder that meets the Canal Corporation bid requirements, in order to satisfy multiple factors and needs as set forth in the bid document. Such mini-bids shall be conducted by the Canal's Corporation SSM staff (or on behalf of the Canal Corporation by an Implementation Contractor) where applicable and practicable. Within a said multiple award group, work may be assigned to a specific firm without conducting a mini-bid, under certain circumstances, including but not limited to: where such firm possesses specialized expertise and is uniquely qualified to perform such work; where time constraints, emergency or other critical conditions exist or geographic location is of primary consideration in order to meet schedule requirements, respond to emergent issues or otherwise meet the Canal's Corporation needs; or when the work scope is below a specified monetary threshold. The decision to assign work without conducting a

mini-bid shall typically be made jointly by the Canal Corporation SSM Department and initiating departments, and shall be documented for the Procurement Record.

G. Solicitations will include a scope of work that defines the goods required and/or the services to be performed; evaluation criteria (as defined in Section 4.B.); milestone dates; the Canal Corporation Supplier Diversity Program and SDVOB requirements, if applicable; all other applicable Canal Corporation requirements and any special methods or limitations that the Canal Corporation chooses to govern the work. Telephone solicitation, usually for procurements valued at less than $50,000, may be used where time constraints do not permit issuance of an RFP, where issuance of an RFP is otherwise impracticable or for goods that are catalog items or do not require a detailed bill of materials or specification. All solicitations made by telephone shall be documented and made part of the Procurement Record.

H. For all Procurement Contracts with a value equal to or greater than $50,000 (except for those contracts noted below), the Canal Corporation will, prior to soliciting proposals, submit all required information to the Commissioner of the DED to be included on the New York State *Contract Reporter* website, (www.nyscr.ny.gov) (unless such posting would serve no useful purpose). Such information will be submitted to the DED Commissioner in accordance with the schedule set forth by the DED. The due date for bids or proposals will be a minimum of 15 business days after the date of publication of such notice on the *Contract Reporter* website, except where a shorter period is specifically authorized by law. For Procurement Contracts resulting from a Request for Proposal process, the Canal Corporation will submit the results of the bid opening, including the names of firms submitting proposals and the name/s of the awardee/s, for inclusion on the *Contract Reporter* website. For all other Procurement Contracts, the name of the awardee will be submitted.

This section 3.H does not apply to (i) Procurement Contracts awarded on an emergency basis as described below in Section 3.M, (ii) Procurement Contracts being rebid or re-solicited for substantially the same goods and/or services, within 45 business days after the original due date, and/or (iii) Procurement Contracts awarded to not-for-profit human services providers. (See Article 4-C, Economic Development Law)

Certain Procurement Contracts may require purchases: (1) on a spot market; (2) needed prior to the time limits for noticing on the Contract Reporter website or that do not lend themselves to the solicitation process. Such purchases are exempted from the noticing requirements of Article 4-C of the Economic Development Law subject to the approval of the NYPA Vice President of Strategic Supply Management (SSM), and/or the head of the initiating department that does not complete its procurements through NYPA SSM or the Canal Corporation SSM Department. From time to time or where appropriate, generic notices may be published on the Contract Reporter website notifying potential bidders of such

opportunities and soliciting qualification statements for consideration by the Canal Corporation.

Notwithstanding the foregoing, submittal of a notice / announcement of award for inclusion on the *Contract Reporter* website is required for Procurement Contracts with a value of $50,000 or more awarded on a sole source or single source basis, including such discretionary contracts not exceeding $200,000 awarded to Small Business Enterprises (SBEs) or MWBE firms, or for the purchase of goods and/or technology that are recycled or remanufactured, for discretionary awards on a single or sole source basis to SDVOB's, or for the purchase of food, including milk and milk products that are grown, produced or harvested in New York State, and certain other Procurement Contracts exempt from the general advertising requirement for Procurement Contract bidding opportunities, in accordance with the afore-referenced law. Such notice shall specify the name of the awardee.

I. In order to further increase participation of service-disabled veterans in New York State's contracting opportunities, the Service-Disabled Veteran-Owned Business ("SDVOB") Act was signed into law on May 12, 2014. The SDVOB program provides for eligible Veteran business owners to become certified as a New York State Service-Disabled Veteran-Owned Business. The Division of Service-Disabled Veterans' Business Development within the New York State Office of General Services ("OGS") is responsible for certifying eligible SDVOBs, assisting agencies and authorities in complying with the law, and promoting SDVOB participation in the state's procurement activities. Under this program, contracts may be awarded on a non-competitive basis to NYS-certified SDVOBs for discretionary purchases. Alternately, contracts may be competitively bid exclusively among NYS-certified SDVOBs regardless of value, and advertised as such on the *Contract Reporter* website.

J. Proposals for certain Services Contracts may also be solicited by competitive search, as follows:

For contracts where the scope of work cannot be well defined or quantified, or where selection requires evaluation of factors such as breadth and depth of experience in a unique or highly specialized field and suitability as a Canal Corporation representative, a "competitive search" will be conducted to determine which consultants are most qualified, for reasonable compensation terms, to perform the work. Depending on market conditions, at least five potential sources should be evaluated; if there are fewer than five sources, all sources should be evaluated. The NYPA SSM Department or the Canal Corporation SSM Department staff will work with the initiating department to gather information from potential sources, that will include a description of the consultant/firm's qualifications, résumés of key personnel, past experience and proposed billing rates.

K. A Procurement Contract may be awarded on a Sole Source, Single Source, or other non-competitive basis where:

1. Compatibility of equipment, accessories or spare or replacement parts is the paramount consideration.
2. Services are required to extend or complement a prior procurement and it is impracticable or uneconomic to have a source other than the original source continue the work.
3. A sole supplier's item is needed for trial use or testing, or a proprietary item is sought for which there is only one source.
4. Other circumstances or work requirements exist that cause only one source to be available to supply the required goods and/or services.
5. The contract is awarded to a Small Business Enterprise or to a NYS-certified MWBE firm for discretionary purchases not exceeding $200,000, pursuant to Section 3.D and as further set forth in Section 2.M.
6. The contract is awarded to a NYS-certified SDVOB for a discretionary purchase
7. The contract is for the discretionary purchase of goods and/or technology that are recycled or remanufactured, in an amount not exceeding $200,000, as further set forth in Section 2.M and subject to the approvals stated in Section 3.D.
8. The contract is for the discretionary purchase of commodities that are food, including milk and milk products, which are grown, produced or harvested in New York State, in an amount not exceeding $200,000, as further set forth in Section 2.M and subject to the approvals stated in Section 3.D.
9. Purchases made on a Sole Source, Single Source, or other non-competitive basis are subject to Public Authorities Law § 2879-a, 2 NYCRR Part 206, entitled "Comptroller Approval of Contracts Made by State Authorities" ("Comptroller Regulations") and the State Authority Contract Manual.

L. Pursuant to Public Authorities Law § 2879-a, the Comptroller Regulations and the State Authority Contract Manual, the Canal Corporation may be required to submit certain contracts to the New York State Comptroller for approval that are awarded on a Sole Source, Single Source, or other non-competitive basis for the purchase of goods and/or services in an amount in excess of $1 million, and shall notify the successful bidder therefor. Such contracts or contract amendments shall not be valid and enforceable unless approved by the Comptroller or until 90 days have elapsed from such submission without action by the Comptroller, as further set forth in the referenced law and regulations.

M. Subject to the Canal Corporation Expenditure Authorization Procedures ("EAPs"), and Public Authorities Law § 2879-a, the Comptroller Regulations and the State Authority Contract Manual, a Procurement Contract may be awarded without following the solicitation requirements that ordinarily apply (but using such competitive selection procedures as are practicable under the circumstances) where emergency conditions exist, such as:

1. A threat to the health or safety of the public or Canal Corporation employees or workers.
2. Proper functioning of the Canal Corporation facilities or construction or operating projects requires adherence to a schedule that does not permit time for an ordinary procurement solicitation.

N. Whenever an initiating department determines that a Procurement Contract should be awarded on a Single Source, Sole Source, or an emergency basis, the department head or other authorized equivalent per the EAPs will provide a written statement explaining the compelling reasons therefor to the NYPA Vice President, SSM. The award of such Procurement Contracts, regardless of value, requires the written approval of the NYPA Vice President, SSM, except as noted in Section 3.H.

O. Every potential Sole Source or Single Source contract with a value of $1 million or more must be approved by the NYPA President and CEO or the COO prior to processing by the NYPA SSM Department or Canal Corporation SSM Department.

P. In furtherance of Public Authorities Law § 2800, when a procurement is made on a non-competitive basis, and the price for goods or services purchased exceeds fair market value, prior to making the purchase, the Business Unit Head of the initiating department shall provide a detailed explanation of the justification for making the purchase and a certification shall be signed by the NYPA Chief Executive Officer and Chief Financial Officer stating that they have reviewed the terms of such purchase and determined that it complies with applicable law and procurement guidelines. The following definition shall apply: "Fair Market Value" shall mean the estimated dollar amount that a willing buyer would pay to a willing seller for property in an arms-length transaction in the appropriate marketplace and under similar circumstances. Fair market value may be determined by internal appraisals, industry-recognized sources, or other methods of valuation generally accepted in the industry in which such property is utilized, as may be approved by the NYPA Vice President, SSM or authorized designee.

Q. It is the policy of New York State to discourage improper communications intended to influence a governmental procurement. The Canal Corporation will endeavor to control such practices and will comply with the applicable statutory provisions. In furtherance of the State Finance Law §§ 139-j and 139-k, the following shall apply:

The "Restricted Period" is the period of time commencing with the earliest posting, on the Canal Corporation website, in a newspaper of general circulation, or in the Procurement Opportunities Newsletter (i.e., New York State *Contract Reporter*) in accordance with Article 4-C of the Economic Development Law of written notice, advertisement or solicitation of a request for proposal, invitation for bids, or solicitation of proposals, or any other method provided for by law or regulation for soliciting a response from offerors (i.e., bidders/con- tractors) intending to result in

a Procurement Contract with the Canal Corporation and ending with the final contract award and approval by the Canal Corporation and, where applicable, the State Comptroller. The "Restricted Period" also applies to a "mini-bid" process that may be utilized in certain established OGS, GSA or Canal Corporation multiple award contracts, as provided in Section 3.F.

The Canal Corporation shall designate a person or persons who may be contacted, with respect to each Canal Corporation procurement. The bidders/contractors or persons acting on their behalf, shall only contact the Canal Corporation's designated person or persons where a reasonable person would infer that the communication was intended to influence the procurement during the Restricted Period.

R. In furtherance of the Canal Corporation commitment to ensure transparency and accountability of its operations, every member, officer or employee of the Canal Corporation who is contacted by a lobbyist is required to make a contemporaneous record of such contact, pursuant to Public Authorities Law § 2987.

S. Project Sunlight (Chapter 399, Part A, Section 4 of the Laws of 2011) requires the Canal Corporation to record in a database maintained by the New York State Office of General Services certain appearances between the Canal Corporation and individuals, firms or other entities (excluding elected officials and representatives of federal, state and local agencies and authorities) relating to the procurement of a contract, with a value of $25,000 or more, for real property, goods or services. Appearances are defined as an interaction through an in-person meeting or a video conference between covered individuals. Appearances related to emergency procurements and disposal of property through public auctions are excluded, as are appearances that take place during the formal "Restricted Period." Covered individuals at the Canal Corporation means an employee who has the power to exercise discretion in procurement matters or advises someone who exercises such discretion. A covered individual outside of the Canal Corporation means both "external" (e.g., a lobbyist) and "internal" (e.g., sales representative) representatives of an entity, individuals appearing on behalf of themselves, advocacy groups or organizations or entities representing the interests or concerns of the organization or entity or of its members. All such appearances must be promptly reported to the Canal Corporation Ethics and Compliance Office for recording in the Project Sunlight database.

4. EVALUATION OF PROPOSALS

A. Proposals will be evaluated using a fair and equitable comparison of all aspects of the proposals against the specifics of the solicitation and against each other, including an analysis of each offer that considers: the quality of the goods and/or the competence of the bidder (including, but not limited to, the bidder's skill, judgment and business integrity), the technical merit of the proposal and the price for which the goods and/or services are to be supplied.

In the event the price submitted by the bidder recommended to be awarded a contract exceeds the cost estimated, where a cost estimate is provided on the solicitation at the time of bidding, the initiating department will prepare a written explanation to be reviewed by the Canal Corporation SSM Department and appropriate managers as stipulated in the EAPs. The following options should be considered: (1) rejecting the bids, resoliciting proposals and/or modifying the scope of work; (2) revising the cost estimate and proceeding with the contract award and (3) negotiating with the low bidder(s), as determined by the NYPA Vice President, SSM or designee, to reduce the price quoted. Factors to be considered in reaching the proper course of action include but are not limited to: the effects of a delay on both the schedule and the cost of the specific capital construction project or outage at an operating facility, the magnitude of the contract, available bidders, the ability to attract additional competition if the solicitation is reissued, and the accuracy of the original cost estimate. The recommended course of action and the reasons therefor must be fully documented in a memorandum for consideration by the appropriate level of management prior to approval and placed in the appropriate procurement file.

B. Factors to be considered in evaluating the goods and/or services to be supplied and/or the competence of the bidder are: previous experience (including applicable experience in New York State and evaluations from other clients for whom the bidder has provided goods and/or services); the abilities and experience of the personnel to be assigned to the Canal Corporation work and the ability to provide any needed advanced techniques such as simulation and modeling; and overall, the bidder's skill, judgment and business integrity. The approach proposed in meeting the exact requirements of the scope of work will be given consideration in evaluating the technical merit of the proposal, together with a well-organized task structure, the ability to timely supply the goods and/or perform the proposed services and the ability to meet Supplier Diversity Program goals, if any. The need to purchase the goods from and/or subcontract performance of services to others will be evaluated as to their effects on cost, as well as quality, schedule and overall performance.

Another factor to be considered in evaluating proposals may involve an assessment of the bidder's diversity practices, where applicable. Pursuant to Article 15-A of the Executive Law, diversity practices are the contractor's practices and policies with respect to utilizing NYS-certified MWBEs in contracts as subcontractors and suppliers, and entering into partnerships, joint ventures or other similar arrangements with NYS-certified MWBEs. A contractor's diversity practices may be assessed when: (1) a procurement is awarded on the basis of "Best Value" as described in Section 4.D. (but *not* when a procurement is awarded based upon "lowest price"); (2) the anticipated award is $250,000 or greater; and (3) such assessment is practicable, feasible and appropriate. Such assessment shall not permit the automatic rejection of a bid or Procurement Contract proposal based on lack of adherence to diversity practices.

C. For Services Contracts (as defined in Section 2.C of these Guidelines), the technical merits of the proposals and the experience and capabilities of the bidders will be the primary factors in determining the individual or firm to be awarded the contract, provided that the price for performing such work is reasonable and competitive.

D. For Procurement Contracts for Goods (as defined in Section 2.C of these Guidelines), the award should generally be made to the lowest-priced firm submitting a proposal that meets the commercial and technical requirements of the bid documents. (See also Section 4.F regarding award to "other than low bidder".)

As a best practice and pursuant to State Finance Law § 163, the Canal Corporation may award on a "Best Value" basis for awarding contracts to the offeror that optimizes quality, cost and efficiency, among responsive and responsible offerors. Such basis shall reflect, wherever possible, objective and quantifiable analysis and may also identify a quantitative factor for offerors that are Small Businesses or NYS-certified SDVOB or MWBE firms.

E. Pursuant to § 139-k of the State Finance Law, the Canal Corporation shall not award a Procurement Contract (as defined in Subsection 3.Q.1 of these Guidelines) to a bidder/contractor who fails to provide timely, accurate and complete responses to inquiries about past determinations of non-responsibility (unless awarding the contract is necessary to protect public property or public health or safety and the bidder/contractor is the only source capable of supplying the required article of procurement within the necessary timeframe.)

A bidder's/contractor's knowing and willful violation of the Canal Corporation policy providing for certain procurement disclosures shall result in a determination of non-responsibility of such bidder/contractor pursuant to State Finance Law §§ 139-j and 139-k only.

More than one determination of non-responsibility due to violations of State Finance Law § 139-k in a four-year period shall render a bidder/contractor ineligible to submit bids for four years from the second determination of non-responsibility.

F. An award to "other than low bidder" can be made only with the approval of appropriate management as stipulated in the EAPs, and should be based on such a proposal providing a clear advantage to the Canal Corporation over the lower-priced proposal. Factors justifying an "other than low bidder" award may include, but are not limited to: improved delivery schedules that will reduce outages; longer warranty periods; improved efficiency over the usable life of the equipment; reduced maintenance costs; the bidders' financial resources or the ability to meet or exceed Supplier Diversity Program and SDVOB goals; and overall, the bidder's skill, judgment and business integrity.

G. The specifications set forth in any solicitation prepared under these Guidelines were based upon information available at the time of the preparation of the solicitation. Thus, the Canal Corporation may diverge from the specifications of any solicitation if, after review of the proposals responsive to such solicitation, the Canal Corporation deems it prudent in light of its experience, the circumstances of the solicitation and/or potential cost savings.

5. RECOMMENDATION OF AWARD

A. A recommendation for approval of a proposed award of a Procurement Contract is usually prepared in the form of a memorandum or e-mail by the department requiring the goods and/or services. The recommendation must include an evaluation of proposals as specified in Article 4 above, as well as proposed specific compensation terms that provide a clear breakdown of cost factors and methods of calculation, including, as applicable:

1. Lump sum and/or unit prices for equipment and construction work.

2. Hourly or daily rates for personnel.

3. Markups for payroll taxes, fringe benefits, overhead and fees, if the proposal is based on reimbursement of actual payroll costs.

4. Terms for reimbursement of direct out-of-pocket expenses, such as travel and living costs, telephone charges, services of others and computer services.

5. Provisions, if any, for bonus/penalty arrangements based on target person-hours and/or target schedule.

B. The recommendation will also review any substantive exceptions to commercial and technical requirements of a price inquiry, RFP, RFQ or bidding documents, including but not limited to payment terms, warranties and bond requirements, if any, as well as Supplier Diversity Program requirements, as applicable.

6. AWARD OF CONTRACT

A. Services Contracts (which include contracts for Construction, Personal and Non-personal services, as defined in Section 2.C.) valued or estimated to be $5,000 or greater to be performed for a period of more than 12 months are approved and reviewed annually by the Canal Corporation Board of Directors. Services Contracts for a period of less than 12 months are approved by authorized designees in accordance with existing EAPs. Extending a contract for services with an initial duration of less than 12 months beyond 12 months will be approved by the Canal Corporation Board of Directors at the request of the initiating department and will be reviewed by the Canal Corporation Board of Directors

annually. Extending a contract for services, that has previously been approved by the Canal Corporation Board of Directors, for a cumulative term of more than 12 months requires further Canal Corporation Board of Director approval.

B. Extending a contract, previously approved by the Canal Corporation Board of Directors, for 12 months or less ("grace period") requires approval by the NYPA Vice President, SSM of the requesting department or other authorized equivalent or designee in accordance with existing EAPs and concurrence by the NYPA Vice President, SSM.

C. For Services Contracts valued or estimated to be $5,000 or greater to be performed for a period of more than 12 months that must be awarded prior to the next quarterly Canal Corporation Board of Directors meeting, the initial contract will be issued for the entire intended term of the contract. Based on its total term and value, such contract must be approved in writing by the appropriate management as set forth in the EAPs. Such contract is subject to the Canal Corporation Board of Directors' approval, at the next quarterly Canal Corporation Board of Directors' meeting. If such approval is not granted, the contract will be terminated immediately.

D. A contract or contract task valued or estimated to be $5,000 or greater is deemed to be for services in excess of 12 months where the contract does not specify a definite term and the work will not be completed within 12 months, and any "continuing services" contract with no fixed term that provides for the periodic assignment of specific tasks or particular requests for services. This includes Canal Corporation Board of Directors-approved contracts for architect/ engineering services with the original engineers of operating facilities, as well as the original supplier of steam supply systems or boilers and turbine generating equipment. Each task authorized under such contracts (which may be referred to as a "Change Order," "Purchase Order" or "Task Number") is considered a separate commitment and must be separately approved in accordance with the EAPs.

E. The term of a Personal Services contract is limited to a maximum of five (5) years, including any extensions.

F. Multiyear contracts for Goods (which include equipment, materials and supplies, as defined in Section 2.D) valued or estimated to be $5,000 or greater are subject to the management approval thresholds established in the EAPs, and require Trustee approval only once those thresholds are exceeded.

G. When time constraints or emergency conditions require extending an existing contract with an initial duration of less than a year beyond a year, and the cumulative monetary change order value does not exceed the appropriate limit set forth in the EAPs, the Department Head, with the prior concurrence of the NYPA Vice President, SSM or equivalent(s) or designee, may authorize extending such

contract, subject to the Canal Corporation Board of Directors ratifying such action as soon as practicable.

H. When the total estimated contract value or the value of the extension exceeds the monetary limits set forth in the EAPs, interim approval by the NYPA President and Chief Executive Officer or Chief Operating Officer or equivalent(s) or designee is required, subject to the Canal Corporation Board of Directors ratifying such action as soon as practicable.

I. When time constraints or emergency conditions require immediate commencement of services to be performed for a period of more than one year, and when the contract value exceeds the monetary approval limit for the President and Chief Executive Officer or Chief Operating Officer or equivalent(s), as set forth in the EAPs, the President and Chief Executive Officer or Chief Operating Officer or equivalent(s) or designee, with the prior concurrence of the NYPA Vice President, SSM or equivalent(s) or designee, may authorize in writing the commencement of such services. The initial compensation limitation may not exceed the authorization level for the NYPA President and Chief Executive Officer or equivalent(s) or Chief Operating Officer or equivalent(s) as set forth in the EAPs. Such contracts will be subject to the Canal Corporation Board of Directors approval, which will be solicited at their next scheduled Canal Corporation Board of Directors meeting.

J. The NYPA SSM or the Canal Corporation SSM Department prepares the contract for execution by the Canal Corporation and the successful bidder. No work by the selected contractor will commence until the contract is executed by both parties, except that mutually signed letters of award or intent may initiate work prior to formal execution. Canal Corporation signatories of such letters must be authorized to approve contract awards pursuant to the EAPs.

K. Pursuant to Public Authorities Law § 2879, the Canal Corporation shall notify the Commissioner of Economic Development of the award of any Procurement Contract for the purchase of goods and/or services from a Foreign Business Enterprise (as defined in Subsection 3.E.3 of these Guidelines) in an amount equal to or greater than $1 million simultaneously with notifying the successful bidder therefor. The Canal Corporation shall not enter into the Procurement Contract for said goods and/or services until at least 15 days have elapsed from the notification of the award, except for a Procurement Contract awarded on an emergency or critical basis. The notification to the Commissioner shall include the name, address, telephone and facsimile number of the Foreign Business Enterprise, the amount of the proposed Procurement Contract and the name of the individual at the Foreign Business Enterprise or acting on behalf of same who is principally responsible for the proposed Procurement Contract.

7. CONTRACT PROVISIONS

A. The following standard forms of contracts are available from the NYPA SSM Department or Canal Corporation SSM Department: purchase order format (for

standard procurements of goods and/or services); furnish-and-deliver format (for major equipment purchases); long form agreements (for consulting services) and maintenance agreement formats; contract work orders (for construction work of small magnitude); construction contracts (for major construction work) and furnish, deliver and install contracts (for specialized, major procurements where single responsibility is required for procurement and installation). These contract forms are intended to govern the purchase of goods and/or performance of services.

Canal Corporation departments proposing to initiate a Procurement Contract should review these forms to suggest any modifications and additions that may be required for the particular goods and/or services. Under no circumstances should contract forms be shown to proposed bidders without the prior approval of the NYPA SSM Department and the Canal Corporation SSM Department, which are responsible for requesting proposals.

B. The following types of provisions setting forth contractor responsibilities are to be contained in the standard forms of Procurement Contracts, except that any provisions listed below that are inapplicable or unnecessary because of the nature or duration of the work to be performed, the location(s) where the work is to be performed or the type of compensation being paid therefor, need not be included. Other provisions may be added as necessary and appropriate.

1. Schedule of Services or Specifications
2. Time of Completion
3. Compensation or Itemized Proposals
4. Relationship of Parties
5. Delays
6. Termination
7. Changes in the Work
8. Claims and Disputes
9. Warranty
10. Insurance
11. Records, Accounts, Inspection and Audit
12. Assignment
13. Notices
14. Indemnification
15. Governing Law
16. Proprietary Nature of Work
17. Testimony
18. MWBE requirements
19. SDVOB requirements
20. Entire Agreement

<u>Contract Attachments</u>

1. Compensation Schedule
2. Schedule of Services or Specifications

3. Appendix "A" (Miscellaneous Statutory Provisions)
4. Appendix "B" (Prompt Payment Provisions)
5. Appendix "C" (Minority- and Women-owned Business Enterprise (MWBE) Participation Goal Requirement)
6. Appendix "D" (Background Security Screening for Authority Contractors)
7. Appendix "E" (Omnibus Procurement Act of 1992 Requirements)
8. Appendix "F" (Computer Aided Design Requirements For New York Power Authority Drawings)
9. Appendix "G" (Equal Employment Opportunities Requirements)
10. Appendix "H" (Tax Law Requirements)
11. Appendix "I" (New York Power Authority (NYPA) North American Electric Reliability Corporation Critical Infrastructure Protection (NERC CIP) Cyber Access And/Or Unescorted Physical Access Training Requirements)
12. Appendix "J" (Bidder/Contractor Compliance with State Finance Law §§ 139-j and 139-k Providing for Certain Procurement Disclosures)
13. Appendix "K" (Additional State and Federal Provisions Required for American Recovery and Reinvestment Act (Pub. L. No. 111-5 Stat. 2009) ("ARRA") Funded Projects) - inactive
14. Appendix "L" (DOE Federal Contract Provisions) - inactive
15. Appendix "M" (Use of Ultra Low Sulfur Diesel Fuel and Best Available Retrofit Technology ("BART") for Heavy Duty Vehicles)
16. Appendix "N" (The New York State Iran Divestment Act of 2012 – Iranian Energy Sector Divestment)
17. Appendix "O" (Encouraging Use of New York State Businesses in Contract Performance) – inactive
18. Appendix "P" (Information Security Requirements for Vendors and External Partners)

C. If a vendor (firm, person or other entity) participates in the development or writing of the specifications for a procurement solicitation, such vendor shall not be permitted to bid on such procurement, either as a prime vendor or as a subcontractor at any level. Contracts for evaluation of offers for products or services shall not be awarded to a vendor that would then evaluate its own offers for products or services.

Furthermore, any firm, person or other entity retained by the Canal Corporation to provide conceptual studies, designs or specifications is prohibited from being awarded future phases of work, including implementation, related to the original work.

The above restrictions shall not apply where:

1. The vendor is the sole source or single source of the product or service;
2. More than one vendor has been involved in preparing the specifications for a procurement proposal;

3. There is no qualified response to the solicitation for future phases of work, including implementation; or

4. The originating Canal Corporation Department determines in writing that the restrictions are not in the best interests of the Canal Corporation. Such originating Department shall obtain the approval of the applicable Department Head or equivalent(s), NYPA Vice President, SSM or equivalent(s) or designee, NYPA Assistant General Counsel or equivalent(s) and NYPA President and Chief Executive Officer or designee or Chief Operating Officer or equivalent(s) to waive this restriction on a case-by-case basis.

8. CHANGE ORDERS

A. Change Orders to existing contracts are justified in the following cases:

1. To incorporate additional work related to the original scope, to delete work or to otherwise modify the original work scope;

2. To exercise options previously included in the original contract to perform additional work or to extend the contract term;

3. To accommodate emergency conditions, defined in Section 3.M herein, that require the immediate performance of work by a firm already under contract;

4. When rebidding would not be practical or in the best interests of the Canal Corporation customers; and

5. To meet the Canal Corporation Supplier Diversity and SDVOB Program goals in accordance with Executive Law Articles 15-A and 17-B, respectively.

B. All Change Orders must be approved in accordance with the Canal Corporation EAPs, and should include specific schedules for completion of work at the earliest possible time.

C. Pursuant to Public Authorities Law § 2879-a, the Comptroller Regulations and the State Authority Contract Manual, the Canal Corporation may be required to submit certain Change Orders to the New York State Comptroller for filing or approval where the aggregate value of the contract as amended is in excess of $1 million and the original contract was awarded on the basis of a competitive procurement, but the modification was neither contemplated nor provided for in the solicitation for such competitive procurement.

9. CONTRACTING DECISIONS INVOLVING CURRENT OR FORMER EMPLOYEES

A. Former Canal Corporation officers and employees may be eligible to be considered for direct engagement as contractors and/or consultants provided that they meet all criteria for contractors and/or consultants generally as specified in these Guidelines; their engagement is not barred by New York Public Officers Law § 73(8); they obtain an opinion by the New York State Joint Commission on Public Ethics that such engagement is permissible; and upon approval of the NYPA President and Chief Executive Officer, as well as the Chairman of the Canal Corporation Board.

B. Pursuant to the provisions of New York Public Officers Law § 73(8):

1. No Canal Corporation officer or employee is eligible, within a period of two years after the termination of Canal Corporation service to appear or practice before the Canal Corporation or receive compensation for any services rendered on behalf of any person, firm, corporation or association, in relation to any case, proceeding or application or other matter before the Canal Corporation.

2. No Canal Corporation officer or employee is eligible, at any time after the termination of Canal Corporation service, to appear, practice, communicate or otherwise render services before the Canal Corporation or any other state agency or receive compensation for any such services rendered on behalf of any person, firm, corporation or other entity in relation to any case, proceeding, application or transaction that such person was directly concerned with and personally participated in during his or her period of service, or which was under his or her active consideration.

3. Pursuant to the provisions of New York Public Officers Law § 73(8-b), notwithstanding the provisions of 1. and 2. above, a former Canal Corporation officer or employee may contract individually, or as a member or employee of a firm, corporation or association, to render services to the Canal Corporation, if, prior to engaging in such service, the Chairman of the Board of Directors certifies in writing to the New York State Joint Commission on Public Ethics that such former officer or employee has expertise, knowledge or experience with respect to a particular matter which meets the Canal Corporation needs and is otherwise unavailable at a comparable cost. Where approval of the contract is required under § 112 of the New York State Finance Law, the Comptroller shall review and consider the reasons for such certification. The New York State Joint Commission on Public Ethics must review and approve all such certifications.

C. No Canal Corporation employee who is involved in the award of Canal Corporation grants or contracts may ask any officer, director or employee of such current or prospective contractor or grantee to reveal: (a) the political party

affiliation of the individual; (b) whether the individual or entity has made campaign contributions to any political party, elected official or candidate for elective office or (c) whether the individual voted for or against any political party, elected official or candidate for elective office.

D. No Canal Corporation employee may award or decline to award any grant or contract, or recommend, promise or threaten to do so because of a current or prospective grantee's or contractor's: (a) refusal to answer any inquiry prohibited by Section 9.C above or (b) giving or withholding or neglecting to make any contribution of money, service or any other valuable thing for any political purpose.

E. No Canal Corporation employee may take part in any contracting process or decision: (i) to a Relative; or (ii) to any entity in which the Canal Corporation employee or a Relative of such Canal Corporation employee owns or controls 10% or more of the stock of such entity (or 1% in the case of a corporation whose stock is regularly traded on an established securities exchange); or serves as an officer, director or partner of that entity. If a contracting matter arises relating to this Section 9.E, then the employee must advise in writing his or her supervisor and the Office of Ethics and Compliance of the relationship, and must be recused from any and all discussions or decisions relating to the matter.

1. For purposes of this Section 9.E, the term "Relative" is defined in Definitions, Section 2.G of these Guidelines.

10. SUPPLIER DIVERSITY PROGRAM REQUIREMENTS

The Canal Corporation strives to continue to foster the development of business opportunities on Canal Corporation contracts for MWBEs. Article 15-A of the Executive Law established the NYS Office (now Division) of Minority and Women's Business Development ("DMWBD") that is responsible for developing rules and regulations for implementation of this statute, certifying MWBEs and reviewing and monitoring goal plans, compliance reports and contract provisions to be included in all non-construction contracts for more than $25,000 and construction contracts for more than $100,000. The definition of an MWBE is included in Section 2.H of these Guidelines. The Canal Corporation aims to solicit proposals from NYS-certified MWBEs that are qualified to perform the required work. In addition, specific goals may be included in certain contracts for consulting work, construction and procurement of goods and other services requiring the contractor/vendor to subcontract a portion of the work to NYS-certified MWBEs as required by law. Bidders' proposals will include a completed preliminary Utilization Plan Form for MWBEs, as well as applicable EEO and Diversity Practices Forms, where required. Such bidders' failure to meet these requirements may be grounds for rejection of the proposal, or cancellation of the contract if a contractor did not make a good faith effort to meet its goals after contract award. Final MWBE Utilization Plans for Construction contracts valued at more than $100,000 shall be provided and posted on

the procurement website by the successful vendor within ten business days of contract signing.

Pursuant to § 2879 of the Public Authorities Law and as further set forth in the Canal's Corporation Supplier Diversity Program documents, the following guidelines apply:

1. Identify those areas or types of contracts for which MWBEs may best bid so as to promote and assist participation by such enterprises and facilitate a fair share of the awarding of contracts to such enterprises.
2. Provide notice, in addition to any other notice of procurement opportunities required by law, to professional and other organizations that serve MWBEs providing the types of services procured by the Canal Corporation.
3. Maintain lists of qualified NYS-certified MWBEs, including professional firms that have expressed an interest in doing business with the Canal Corporation and ensuring that such lists are updated regularly. The Canal Corporation shall also consult the lists of NYS-certified MWBEs maintained by the DED pursuant to Executive Law Article 15-A.
4. Establish appropriate goals for participation by MWBEs in Procurement Contracts awarded by the Canal Corporation and for the utilization of MWBEs as subcontractors and suppliers by entities having Procurement Contracts with the Canal Corporation. Statewide numerical participation target goals shall be established by the Canal Corporation based on the criteria set forth in Public Authorities Law § 2879.
5. Conduct procurements in a manner that will enable the Canal Corporation to achieve the maximum feasible portion of the goals established pursuant to Subdivision 4 of this Section and that eliminates barriers to participation by MWBEs in the Canal's Corporation procurements.
6. Designate one or more senior staff of the Canal Corporation to oversee the Canal's Corporation programs established to promote and assist participation by and utilization of NYS-certified MWBEs.

11. SERVICE-DISABLED VETERAN-OWNED BUSINESS ("SDVOB") PROGRAM REQUIREMENTS

The Canal Corporation also strives to foster the development of business opportunities for NYS-certified SDVOBs and to further increase participation by SDVOBs in Canal Corporation contracts, as set forth in Sections 2.L and 3.I of these Guidelines and pursuant to Article 17-B of the Executive Law. One tool is the use of SDVOB discretionary purchasing, as further described in Sections 3.D, I and K of these Guidelines. Another tool authorized by the law is the use of set-asides, which permit the reservation in whole or in part of certain procurements by state agencies and authorities when more than one NYS-certified SDVOB is available and can provide the necessary goods or services to meet the Canal Corporation form, function and utility. The same dollar limits apply to SDVOB contracts as those set forth for MWBEs in Article 10 of these Guidelines.

Pursuant to Article 17-B of the Executive Law, the following guidelines apply:

1. Identify contracts where SDVOBs may best perform and/or where SDVOB goals are practical, feasible and appropriate for the purpose of increasing the utilization of SDVOB participation on Canal Corporation contracts.

2. Submit regular reports with respect to SDVOB Program activity, including but not limited to, utilization reporting and contract monitoring and compliance.

3. Achieve an overall goal of six percent for SDVOB participation on Canal Corporation contracts.

12. DISADVANTAGED BUSINESS ENTERPRISE ("DBE") PROGRAM REQUIREMENTS ON PROJECTS THAT ARE FEDERALLY FUNDED

The Canal Corporation ("Canals") strives to foster the development of business opportunities for NYS certified DBEs and to further increase their participation in Canals Federally funded contracts. The Canals aims to solicit proposals from DBEs for procurements that will be partially or fully federally funded. The Canals follows the DBE guidelines as set out by The Federal Department of Transportation ("DOT"). NYS DOT is tasked with certifying eligible small businesses as DBEs in New York State.

The Canals is committed to promoting participation of DBEs in Canals contracting opportunities in accordance with federal law and regulations and seeks to achieve the following objectives:

1. To ensure nondiscrimination in the award and administration of Federally funded contracts in the canals and waterways;
2. To create a level playing field on which DBEs can compete fairly for Federally funded contracts;
3. To ensure that the Canals' DBE program is narrowly tailored in accordance with applicable law;
4. To ensure that only firms that fully meet this Federal eligibility standards are permitted to participate as DBEs;
5. To help remove barriers to the participation of DBEs in Federally funded contracts;
6. To promote the use of DBEs in all types of federally-assisted contracts and procurement activities.
7. To assist the development of firms that can compete successfully in the marketplace outside the DBE program; and
8. To provide appropriate flexibility to recipients of Federal financial assistance in establishing and providing opportunities for DBEs.

13. PROCUREMENT RECORD AND REPORTING

A. Procurement Record

The NYPA SSM Department or the Canal Corporation SSM Department maintains records of Procurement Contracts. In addition to bid- and contract award-related documents for the goods provided and/or services performed, the Procurement Record includes, but is not limited to, documentation of the decisions made and the approach taken in the procurement process. Such records may be transmitted to a digital warehouse for electronic storage and retrieval.

B. Procurement Report

After the end of each calendar year, the NYPA Vice President, SSM or equivalent(s) will prepare and submit an annual report to the Canal Corporation Board of Directors for their approval that will include:

1. A copy of the Guidelines;
2. An explanation of the Guidelines and any amendments thereto since the last annual report;
3. A list of all Procurement Contracts entered into since the last annual report, including all contracts entered into with New York State Business Enterprises and the subject matter and value thereof and all contracts entered into with Foreign Business Enterprises and the subject matter and value thereof;
4. A list of fees, commissions or other charges paid;
5. A description of work performed, the contract number, the date of the contract and its duration, the name, address and NYS-certified MWBE designation of the awardees, the total amount of the contract, the amount spent on the contract during the reporting period and for the term of the contract to date and the status of open Procurement Contracts during the report year;
6. The type of contract (equipment, services, personal services or construction);
7. The method of awarding the contract (e.g., competitive bidding, Sole Source, Single Source or competitive search);
8. The reasons why any procurements with a value equal to or greater than $50,000 were not noticed in the Contract Reporter;
9. The number of bids received and
10. All referrals made and all penalties imposed, if any, pursuant to § 316 of the Executive Law.

C. Such annual report, as approved by the Canal Corporation Board of Directors, shall be submitted to the New York State Division of the Budget within 90 days of the end of such calendar year, and copies thereof shall be distributed to the New York

State Department of Audit and Control, the DED, the New York State Senate Finance Committee, and the New York State Assembly Ways and Means Committee and any other entity as may be required by law. The annual procurement report is posted on the Canal Corporation website and copies shall be made available to the public upon reasonable written request therefor.

D. State Finance Law §§ 139-j and 139-k

1. A statement describing the basis for a determination of a bidder's/contractor's non-responsibility (per State Finance Law §§ 139-j and 139-k only) and the Canal Corporation decision not to award a bidder/contractor the Procurement Contract must be included in the Procurement Record.

2. The Canal Corporation shall notify the New York State Office of General Services of bidders/contractors who have been determined to be non-responsible bidders (per State Finance Law §§ 139-j and 139-k only) or debarred due to violations of § 139-j of the State Finance Law.

3. All forms entitled "Record of Contact" shall be included in the respective Procurement Record.

4. A statement describing the basis for a termination of a Procurement Contract for providing an intentionally false certification must be included in the Procurement Record.

E. The Canal Corporation may be called upon periodically to submit information regarding the procurement of goods and/or services to organizations implementing the PAAA or other statutes regulating the procurement of goods and services, such as Canal Corporation's Budget Office through the Public Authorities Reporting Information System ("PARIS").

F. The NYPA Vice President, SSM or equivalent(s) will also prepare Annual Goal Plans for the MWBE and SDVOB programs and will submit them by January 15 of each year to Empire State Development - Division of Minority and Women Business Development and the New York State Office of General Services - Division of Service-Disabled Veterans' Business Development, respectively. Quarterly Utilization / Activity Reports for each program will also be prepared and submitted to the aforementioned respective state entities by the 15th day of July, October, January and April.

14. THIRD PARTY RIGHTS: VALIDITY OF CONTRACTS

A. These Guidelines are intended for the guidance of officers and employees of the Canal Corporation only. Nothing contained herein is intended, nor should it be

construed, to confer on any person, firm or corporation any right, remedy, claim or benefit under, or by reason of, any requirement or provision hereof.

B. Nothing contained in these Guidelines alters or affects the validity of, modifies the terms of or impairs any contract or agreement entered into in violation of these Guidelines.

Exhibit A-3
March 26, 2019

2018 Annual Report of Procurement Contracts









NEW YORK STATE OF OPPORTUNITY.

NY Power Authority | Canal Corporation

Cover – Highlights of 2018 contracts, clockwise from top left:

- Advanced Grid Innovation Laboratory for Energy in White Plains
- Plattsburgh to Vermont 20 (PV-20) line installation across Lake Champlain
- Power restoration after Hurricane Maria in Puerto Rico
- Erie Canal lock in Lockport

2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS

FIELD EXPLANATION GUIDE

ARRANGEMENT: Listed by the generating facility. Abbreviations are Headquarters White Plains Office (WPO), Blenheim Gilboa Power Project (BG), Clark Energy Center (CEC), Niagara Power Project (NIA), South Eastern New York including POLETTI, FLYNN, 500MW and Small Clean Power Plants (SENY), St. Lawrence/FDR Power Plant (STL), NYS Canal Corporation (CANALS), Fossil Fuels, Corporate Finance. Within each site, listed in ascending order by CONTRACT NUMBER.

SCOPE: All procurement contracts (for goods or services) with a value of $5,000 or greater that were open, completed or awarded in 2018, including contracts that were extended into 2019 or beyond.

FIELD NAMES

TYPE: COMMITMENT TYPE, Indicating the major category of goods or kind of services provided. Architectural & Engineering Services, Construction, Equipment, IT Hardware, IT Software, Legal Services, Maintenance/Outage, Personal Services, IT Consulting/Development, Other Services, Telecomm, Contingent Workforce. {A,C, E, H, I, L, M, P, R, S, T, W}

MOA: METHOD OF AWARD, Indicating the basis of vendor selection. Competitive Bid (B), Competitive Search (C),Discretionary Spend SBE/MWBE/SDVOB (M), Sole Source (1), Single Source (2). {B,C,M,1,2}

RNA: REASON NOT ADVERTISED, Indicating the reason a notice was not published in the Contract Reporter. {1-9}

OPA: OMNIBUS PROCUREMENT ACT, Indicating where the goods were substantially manufactured or assembled or where the services were substantially performed; New York or Foreign to New York. {N,F}

SD: SUPPLIER DIVERSITY INDICATOR, Small Business Enterprise (SBE) (01), Service Disabled Veteran Owned Business (SDVOB) (02) NY Certified Women Owned Business Enterprise (WBE) (03), NYS Certified Minority Owned Business Enterprise (MBE) (04), Minority Women Owned Business Enterprise (MWBE) (07), Disadvantaged Business Enterprise (DBE) (08), DBE & WBE (09), DBE & MBE (10) {01-04,07-10}

BIDS: NUMBER OF BIDS, Indicating the number of bids received for contracts awarded after January 1, 2007. Such information is not included for contracts awarded prior to that date.

FREIGHT: Contract value adjusted to include actual freight charges.

TOTAL CONTRACT AMOUNT: Total value of the commitment as of December 31, 2018, reported from the SAP system. NOTE: Additional funding may be authorized via issuance of a Change Order in accordance with the Authority's Expenditure Authorization Procedures.

TOTAL AMOUNT EXPENDED TO DATE: Total amount expended through December 31, 2018 as reported from SAP system.

AMOUNT EXPENDED IN 2018: Total amount expended during the report year, January 1, 2018 through December 31, 2018, as reported by SAP system.

DATE OF CONTRACT: Date on which the original commitment was effective (which may differ from Issue Date of formal contract or "Create Date" in SAP system).

O/C: OPEN / COMPLETED, Status of the contract as of December 31, 2018. Completion date indicates that goods have been received or services were completed in full.

THIS DOES NOT NECESSARILY reflect that the final payment has been made.

**Contract re-opened in 2018.

PROJECTED COMPLETION DATE: Open commitments, date of which goods are scheduled to be received or the date on which the scope of the contract is scheduled to be physically completed.

DATE CONTRACT COMPLETED: Completed commitments, the date of actual physical completion, when goods were delivered or services completed in full; this DOES NOT NECESSARILY reflect that the final payment has been made.

2018 ANNUAL REPORT OF PROCUREMENT CONTRACTS

TABLE FOR PROCUREMENT CONTRACT SUMMARY SCREENS

COMMITMENT TYPE

A = ARCHITECTURAL & ENGINEERING SERVICES

C = CONSTRUCTION

E = EQUIPMENT/COMMODITIES

H = IT HARDWARE

I = IT SOFTWARE

L = LEGAL SERVICES

M = MAINTENANCE / OUTAGE

P = PERSONAL SERVICES

R = IT CONSULTING / DEVELOPMENT

S = OTHER (NON-PERSONAL) SERVICES

T = TELECOMM

W = CONTINGENT WORKFORCE

METHOD OF AWARD

B = COMPETITIVE BID

C = COMPETITIVE SEARCH

M = MINORITY AND WOMEN-OWNED BUSINESS ENTERPRISE / SMALL BUSINESS ENTERPRISE VALUE < $200,000 / SERVICE-DISABLED VETERAN-OWNED BUSINESS

1 = SOLE SOURCE

2 = SINGLE SOURCE

REASON NOT ADVERTISED

1 = EMERGENCY OR CRITICAL BASIS

2 = RE-BID/RE-SOLICITED FOR THE SAME GOODS/SERVICE WITHIN 45 BUSINESS DAYS AFTER ORIGINAL BIDS WERE DUE

3 = NOT-FOR-PROFIT PROVIDER OF HUMAN SERVICES

4 = CHARITABLE NON-PROFIT AGENCY WHICH DISTRIBUTES PRODUCTS PRODUCED BY THE BLIND OR SEVERELY HANDICAPPED OR IN CONNECTION WITH SPECIAL EMPLOYMENT PROGRAMS OF THE OFFICE OF MENTAL HEALTH

5 = ORIGINAL AWARD LESS THAN $50,000

6 = ORIGINAL ESTIMATE LESS THAN $50,000

7 = AWARDED UNDER STATE (OGS) OR FEDERAL (GSA) CONTRACT (PIGGYBACK)

8 = NOTICED IN CONTRACT REPORTER

9 = NOT APPLICABLE - NON-PROCUREMENT, MEMBERSHIP, LAND PURCHASES, USE OF PIPELINE, ETC.

OPA : OMNIBUS PROCUREMENT ACT

ENTERED INTO THE SAP SYSTEM (CONTRACT DATA SCREEN): “NYSBE or FBE”

N = GOODS WERE SUBSTANTIALLY PRODUCED OR SERVICES SUBSTANTIALLY PERFORMED IN NEW YORK STATE EXCEPT FOR CONSTRUCTION CONTRACTS

F = GOODS WERE SUBSTANTIALLY PRODUCED OR SERVICES SUBSTANTIALLY PERFORMED OUTSIDE NEW YORK STATE (FOREIGN)

MWBE: MINORITY- AND WOMEN-OWNED BUSINESS ENTERPRISE

01 = NEW YORK STATE SMALL BUSINESS ENTERPRISE (SBE)

02 = NEW YORK STATE-CERTIFIED SERVICE-DISABLED VETERAN-OWNED BUSINESS (SDVOB)

03 = NEW YORK STATE-CERTIFIED WOMEN-OWNED BUSINESS ENTERPRISE (WBE)

04 = NEW YORK STATE-CERTIFIED MINORITY-OWNED BUSINESS ENTERPRISE (MBE)

07 = NEW YORK STATE CERTIFIED MINORITY WOMEN OWNED BUSINESS ENTERPRISE (MWBE)

08 = DISADVANTAGED BUSINESS ENTERPRISE (DBE)

09 = DISADVANTAGED BUSINESS ENTERPRISE & CERTIFIED WOMEN OWNED BUSINESS (DBA WBE)

10=DISADVANTAGED BUSINESS ENTERPRISE & CERTIFIED MINORITY OWNED BUSINESS (DBA MBE)

N = NON NEW YORK STATE CERTIFIED MINORITY OR WOMEN OWNED BUSINESS ENTERPRISE

FREIGHT

* Contract value adjusted to include actual freight charges.

CONTRACT NUMBER	PROVIDER NAME	CONTRACT DESCRIPTION	TYPE	MOA	RNA	OPA	MWBE	BIDS	FRT	TOTAL CONTRACT AMOUNT	TOTAL EXPENDED TO DATE	AMOUNT EXPENDED 2018	CONTRACT BALANCE	DATE OF CONTRACT	O \ C	PROJ COMPLETE DATE	DATE CONTRACT COMPLETE
4400000001	MIRABITO FUEL GROUP 10 CARBON ST ONEONTA, NY 13820 US	FUEL	E	B	7	N	N	1		8,800	2,680	0	6,120	1/1/2017	C		12/31/2018
4400000003	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		60,000	58,054	42,198	1,946	1/3/2017	C		12/18/2018
4400000004	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		40,000	22,047	11,237	17,953	1/1/2017	C		12/18/2018
4400000010	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		24,500	12,984	12,984	11,516	1/4/2017	C		8/30/2018
4400000020	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		10,000	5,266	1,706	4,734	1/1/2017	C		12/18/2018
4400000023	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		10,000	7,407	4,357	2,593	1/1/2017	C		12/18/2018
4400000024	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		9,897	9,897	3,149	0	1/1/2017	C		8/30/2018
4400000027	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		10,000	6,727	3,626	3,273	1/1/2017	C		12/18/2018
4400000028	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		25,000	17,306	6,532	7,694	1/1/2017	C		8/30/2018
4400000034	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		10,000	7,738	2,017	2,262	1/9/2017	C		8/30/2018
4400000035	NOCO ENERGY CORP 2440 SHERIDAN DR - STE 202 TONAWANDA, NY 14150-9493 US	FUEL	E	2	5	N	N	1		10,000	9,205	7,160	795	1/9/2017	C		8/30/2018
4400000036	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		90,000	75,445	42,602	14,555	1/9/2017	C		8/31/2018

CONTRACT NUMBER	PROVIDER NAME	CONTRACT DESCRIPTION	TYPE	MOA	RNA	OPA	MWBE	BIDS	FRT	TOTAL CONTRACT AMOUNT	TOTAL EXPENDED TO DATE	AMOUNT EXPENDED 2018	CONTRACT BALANCE	DATE OF CONTRACT	O \ C	PROJ COMPLETE DATE	DATE CONTRACT COMPLETE
4400000038	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		12,000	9,672	2,359	2,328	1/9/2017	C		8/30/2018
4400000039	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		68,000	53,250	40,180	14,750	1/9/2017	C		12/18/2018
4400000040	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		45,000	26,914	17,207	18,086	1/9/2017	C		12/18/2018
4400000041	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		66,000	65,889	37,164	111	1/9/2017	C		12/18/2018
4400000042	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		40,000	26,262	15,542	13,738	1/9/2017	C		12/18/2018
4400000043	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	3		50,000	39,984	20,767	10,016	1/2/2017	C		12/31/2018
4400000044	NOCO ENERGY CORP 2440 SHERIDAN DR - STE 202 TONAWANDA, NY 14150-9493 US	FUEL	E	B	7	N	N	1		60,000	55,340	30,916	4,660	1/9/2017	C		12/18/2018
4400000046	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		20,000	15,969	9,335	4,031	1/9/2017	C		12/18/2018
4400000047	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		25,000	20,655	16,884	4,345	1/10/2017	C		8/30/2018
4400000048	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		5,000	0	0	5,000	1/3/2017	C		8/30/2018
4400000049	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		10,000	9,129	6,750	871	1/1/2017	C		8/30/2018
4400000050	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		25,000	18,829	13,939	6,171	1/3/2017	C		8/30/2018

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4400000057	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		45,000	44,829	35,991	171	1/1/2017	C		8/30/2018
4400000059	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		20,000	2,252	0	17,748	1/3/2017	C		12/18/2018
4400000061	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		60,000	11,539	9,304	48,461	1/11/2017	C		8/30/2018
4400000065	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		10,000	0	0	10,000	1/1/2017	C		12/18/2018
4400000066	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		200,000	108,736	52,866	91,264	1/1/2017	C		12/18/2018
4400000067	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		30,000	24,225	16,378	5,775	1/11/2017	C		12/31/2018
4400000068	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		20,000	18,668	13,895	1,332	1/11/2017	C		3/1/2018
4400000070	KURK FUEL OIL CO DBA FOR GOETZ ENERGY CORP PO BOX A BUFFALO, NY 14217-0305 US	FUEL	E	B	7	N	01	1		14,500	8,526	4,340	5,974	1/1/2017	C		12/31/2018
4400000071	KURK FUEL OIL CO DBA FOR GOETZ ENERGY CORP PO BOX A BUFFALO, NY 14217-0305 US	FUEL	E	B	7	N	01	1		20,000	13,298	7,413	6,702	1/11/2017	C		3/1/2018
4400000076	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		20,000	19,709	2,450	291	1/1/2017	C		12/18/2018
4400000077	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		20,000	17,970	8,776	2,030	1/12/2017	C		8/30/2018
4400000107	COUNTY WASTE & RECYCLING SERVICE IN 1927 ROUTE 9 PO BOX 431 CLIFTON PARK, NY 12065 US	RUBBISH REMOVAL AND RECYCLING	S	B	7	N	N	1		10,000	6,081	1,700	3,919	1/1/2017	O	11/30/2020	
4400000140	HANSON AGGREGATES NEW YORK LLC 4800 JAMESVILLE RD PO BOX 513 JAMESVILLE, NY 13078 US	FINE AND COARSE AGGREGATES	E	B	7	N	N	1		40,000	35,135	16,894	4,865	1/26/2017	C		1/25/2018
4400000143	ELLICOTT DREDGES LLC ELLICOTT DREDGE ENTERPRISES LLC, EL 1425 WICOMICO ST BALTIMORE, MD 21230 US	DREDGE REPAIR PARTS (OEM)	E	1	5	F	N	1	*	6,229	6,229	0	0	1/26/2017	C		9/4/2018

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4400000230	AIRGAS USA LLC DBA FOR AIRGAS INC 84 KARNER RD ALBANY, NY 12205-4730 US	COMPRESSED AIR	E	B	5	N	N	1		5,000	967	226	4,033	2/8/2017	C		2/7/2018
4400000283	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		35,000	31,403	21,398	3,597	2/14/2017	C		12/18/2018
4400000285	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		70,000	63,705	41,067	6,295	2/14/2017	C		12/18/2018
4400000303	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		5,000	0	0	5,000	2/17/2017	C		8/30/2018
4400000320	PECKHAM MATERIALS CORP PECKHAM INDUSTRIES INC (PARENT) UNION ST ATHENS, NY 12015 US	FINE AND COARSE AGGREGATES	E	B	7	N	N	1		40,000	19,514	722	20,486	2/21/2017	C		4/14/2018
4400000337	NOBLE GAS SOLUTIONS 10 ERIE BLVD STE 1 ALBANY, NY 12204-2523 US	OXYGEN AND ACETYLENE	E	B	7	N	N	1		10,097	5,533	1,104	4,564	2/23/2017	C		12/31/2018
4400000371	MODERN DISPOSAL SERVICES INC PO BOX 209 MODEL CITY, NY 14107-0209 US	DUMPING CHARGES	E	B	5	N	N	1		6,236	6,236	100	0	2/28/2017	C		2/27/2018
4400000373	BENTLEY SYSTEMS INC 685 STOCKTON DR EXTON, PA 19341-1151 US	MAINTENANCE - STAAD SOFTWARE	S	B	6	N	N	1		10,442	10,442	0	0	1/31/2017	C		1/30/2018
4400000437	AMSEC ENGINEERING OF NEW YORK PC DBA AENY 112 W 34TH ST FL 18 NEW YORK, NY 10120-0001 US	VESSEL ASSESSMENT AND LONG RANGE PLANNING	P	B		N	N	3		299,724	299,724	0	0	3/10/2017	C		3/9/2018
4400000456	STONE INDUSTRIES LLC STONE PORTABLE TOILET RENTALS 4305 ROUTE 50 SARATOGA SPRINGS, NY 12866-2914 US	PORTABLE TOILET SERVICES	S	B	7	N	N	1		17,500	11,250	500	6,250	3/16/2017	C		3/14/2018
4400000509	WASTE MANAGEMENT LLC 1661 MOUNT READ BLVD ROCHESTER, NY 14606 US	RUBBISH REMOVAL	S	B	5	N	N	1		8,000	5,907	3,956	2,093	1/1/2018	O	2/1/2019	
4400000514	BARRE STONE PRODUCTS INC 14120 W LEE RD ALBION, NY 14411 US	STONE	E	B	7	N	N	1		75,000	60,912	192	14,088	1/1/2017	C		12/17/2018
4400000540	NEW YORK STATE THRUWAY AUTHORITY 200 SOUTHERN BLVD ALBANY, NY 12209-2018 US	THRUWAY TSA, HR-8, E-ZPASS PLUS COST OF TOLLS	S	1	9	N	N	1		9,996	0	0	9,996	1/1/2017	C		12/30/2018
4400000642	EMPIRE CRANE CO LLC 7021 PERFORMANCE DR NORTH SYRACUSE, NY 13212 US	CRANE REPAIR	S	2	5	N	N	1		6,887	0	0	6,887	4/14/2017	C		4/13/2018

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4400000685	SOUDER'S LLC SOUDERS PROMOTIONS 26 F CONGRESS ST NO 263 SARATOGA SPRINGS, NY 12866 US	MARKETING ITEMS	E	M	6	N	N	1		5,465	5,415	0	50	4/20/2017	C		4/18/2018
4400000709	HANSON AGGREGATES NEW YORK LLC 4800 JAMESVILLE RD PO BOX 513 JAMESVILLE, NY 13078 US	SAND, STONE, AND GRAVEL	E	B	7	N	N	1		5,000	212	0	4,788	1/1/2017	O	4/14/2021	
4400000715	E J WARD INC 8801 TRADEWAY ST SAN ANTONIO, TX 78217-6197 US	FUEL	S	B	7	N	N	1		211,183	188,720	102,482	22,463	4/25/2017	C		4/24/2018
4400000749	CDW G INC 230 N MILWAUKEE AVE VERNON HILLS, IL 60061-4304 US	RSA LICENSES AND ENHANCED SUPPORT	S	B	7	N	N	1		9,585	9,585	0	0	5/3/2017	C		1/2/2018
4400000791	MICROSOFT CORP 3000 BAYPORT DR - STE 480 TAMPA, FL 33607 US	MICROSOFT PREMIER SUPPORT	S	B	7	N	N	1		32,920	32,920	0	0	6/28/2017	C		6/27/2018
4400000823	HANSON AGGREGATES NEW YORK LLC 4800 JAMESVILLE RD PO BOX 513 JAMESVILLE, NY 13078 US	SAND, STONE, AND GRAVEL	E	B	7	N	N	1		10,000	9,357	3,206	643	5/24/2017	C		12/31/2018
4400000865	BETTER POWER INC 508 WHITE SPRUCE BLVD SOUTHVIEW COM ROCHESTER, NY 14623 US	TOWABLE GENERATOR	E	B	7	N	03	1		46,707	46,707	0	0	5/25/2017	C		5/24/2018
4400000886	TRADEBE TREATMENT & RECYCLING NORTH TRADEBE ENVIRONMENTAL SERVICES LLC 47 GRACEY AVE MERIDEN, CT 06450-0902 US	HAZARDOUS WASTE REMOVAL	S	B	5	F	N	1		5,100	5,066	0	34	10/11/2017	C		1/31/2018
4400000913	WASTE MANAGEMENT LLC 2003 BLEEKER ST UTICA, NY 13501 US	RUBBISH REMOVAL	S	B	7	N	N	1		8,000	6,550	5,406	1,450	4/30/2018	C		6/29/2018
4400000920	JOSEPH M BRESS PO BOX 5680 WASHINGTON, DC 20016-1280 US	LABOR NEGOTIATION SERVICES	P	1	5	F	N	1		35,000	4,131	3,886	30,869	6/1/2017	C		5/31/2018
4400000957	FIVE STAR EQUIPMENT INC 6500 E TAFT RD EAST SYRACUSE, NY 13057 US	PARTS FOR PAD SWAP	E	C	5	N	N	3		11,152	10,208	0	944	6/16/2017	C		6/14/2018
4400000980	RICOH USA INC 2500 WESTCHESTER AVE - STE 113 PURCHASE, NY 10577-2515 US	RICOH MP 4504 PRINTER	H	B	7	F	N	1		11,172	11,172	11,172	0	6/19/2017	C		2/20/2018
4400000984	MILLER MARQUART LUMBER CO LLC 35 INDUSTRIAL DR NORTH TONAWANDA, NY 14120-3244 US	LUMBER	E	B	5	N	N	1		8,107	8,107	0	0	7/12/2017	C		12/31/2018

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4400001040	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	CARGO VAN	E	B	7	N	N	2		26,185	26,185	26,185	0	6/1/2017	C		12/31/2018
4400001043	J C EHRLICH CO INC BUFFALO EXTERMINATING - RENTOKIL-IN 6300 COLLETT RD W FARMINGTON, NY 14424 US	VEGETATION MANAGEMENT AND EXTERMINATION	S	C	5	N	N	3		7,900	7,867	696	33	11/15/2017	C		6/30/2018
4400001046	NORTH ATLANTIC POWER DBA FOR GREAT LAKES POWER SERVICE C 15 CONTINENTAL DR EXETER, NH 03833-4564 US	MOUNTAIN GOAT CHIPPER PARTS	E	C	5	F	N	2	*	6,577	6,577	0	0	6/30/2017	C		6/18/2018
4400001049	ELLICOTT DREDGES LLC ELLICOTT DREDGE ENTERPRISES LLC, EL 1425 WICOMICO ST BALTIMORE, MD 21230 US	ELECTRICAL WORK FOR ELLICOTT DREDGE	S	1	5	F	N	1		39,074	39,074	0	0	7/6/2017	C		7/4/2018
4400001061	BARTON & LOGUIDICE DPC 443 ELECTRONICS PKWY LIVERPOOL, NY 13088-6056 US	MS4 STORMWATER PROJECT	P	B		N	N	7		64,300	47,034	22,619	17,266	11/20/2017	C		11/19/2018
4400001067	HANSON AGGREGATES NEW YORK LLC 4800 JAMESVILLE RD PO BOX 513 JAMESVILLE, NY 13078 US	STONE	E	B	7	N	N	1		45,000	38,942	16,174	6,058	7/1/2017	C		7/11/2018
4400001114	BARRETT PAVING MATERIALS INC 4530 WETZEL RD LIVERPOOL, NY 13090-2517 US	STONE	E	B	7	N	N	1		7,000	5,282	0	1,718	11/21/2017	O	4/14/2021	
4400001119	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	LICENSES FOR VSP G400 - G600 REPLICATION	E	B	7	N	04	3		14,026	14,026	0	0	7/24/2017	C		7/23/2018
4400001156	CRANE-HOGAN STRUCTURAL SYSTEMS INC 3001 BROCKPORT RD SPENCERPORT, NY 14559 US	LOCK O-7 REHABILITATION	C	B		N	02	6		24,888,446	12,481,141	11,209,036	12,407,305	7/25/2017	O	6/26/2020	
4400001165	DHI WATER AND ENVIRONMENT 141 UNION BLVD STE 250 LAKEWOOD, CO 80228-2206 US	MAINTENANCE - SHI MIKE DATA MANAGEMENT	S	1		N	N	1		53,487	53,487	0	0	7/1/2017	C		6/30/2018
4400001178	MILLER MARQUART LUMBER CO LLC 35 INDUSTRIAL DR NORTH TONAWANDA, NY 14120-3244 US	LUMBER	E	B	5	N	N	1		10,868	10,868	10,868	0	1/1/2017	C		9/30/2018
4400001179	SISCO MARINE LLC MARINE INLAND FABRICATIONS 1725 BUCHANAN ST PANAMA CITY, FL 32409-1482 US	PUSH BOATS	E	B		F	N	1		564,602	564,602	189,602	0	10/13/2017	C		5/31/2018
4400001188	COMET FLASHER INC 1 BABCOCK ST BUFFALO, NY 14210-2250 US	SIGNAGE FOR GASPORT	E	B	5	N	N	3		5,260	5,260	5,260	0	8/9/2017	C		7/31/2018

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4400001207	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	RAM 3500	E	B	7	N	N	1		50,504	50,504	50,504	0	8/10/2017	C		2/28/2018
4400001208	FLEET MAINTENANCE INC 67 RANSIER DR WEST SENECA, NY 14224-2290 US	WESTERN STAR 4900	E	B	7	N	03	1		177,827	177,827	177,827	0	7/25/2017	C		2/28/2018
4400001220	CORE & MAIN LP 14 ARCH ST WATERVLIET, NY 12189 US	HDPE PIPE	E	B	5	N	N	3	*	33,250	33,250	33,250	0	8/11/2017	C		1/1/2018
4400001226	MOHAWK VALLEY MATERIALS INC 9788 RIVER RD MARCY, NY 13403-2049 US	VEGETATION MANAGEMENT	C	B		N	03	2		2,386,382	1,283,544	138,245	1,102,838	10/16/2017	C		6/29/2018
4400001240	MILLER MARQUART LUMBER CO LLC 35 INDUSTRIAL DR NORTH TONAWANDA, NY 14120-3244 US	LUMBER	E	B	5	N	N	1		7,478	7,478	7,478	0	1/1/2017	C		12/31/2018
4400001243	ABELE TRACTOR & EQUIP CO INC 72 EVERETT RD ALBANY, NY 12205-1499 US	GRAPPLE	E	B	5	N	N	1		13,755	13,755	0	0	7/1/2017	C		1/31/2018
4400001244	TIME WARNER CABLE INC 20 CENTURY HILL DR LATHAM, NY 12110-2116 US	TIME WARNER ETHERNET	S	B	7	N	N	1		1,038,986	219,506	158,151	819,480	8/18/2017	O	7/30/2023	
4400001245	C H BURKDORF & SON INC 35 HOUGH ST ST JOHNSVILLE, NY 13452-1241 US	ROOFING SUPPLIES	E	B	5	N	N	3		6,527	6,527	0	0	8/18/2017	C		12/31/2018
4400001251	SOUTHWORTH-MILTON INC 500 COMMERCE DR CLIFTON PARK, NY 12065 US	WHEEL LOADER	E	B	7	N	N	1		448,365	448,365	448,365	0	8/18/2017	C		12/31/2018
4400001254	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	FLOOD WARNING OPTIMIZATION SYSTEM	P	2	8	N	N	1		443,991	405,197	146,355	38,794	1/1/2017	C		2/28/2018
4400001261	DELOITTE & TOUCHE LLP 4022 SELLS DR HERMITAGE, TN 37076-2903 US	INTERNAL AUDIT COSOURCE	P	B		N	N	4		1,005,780	977,931	510,945	27,849	8/22/2017	C		4/30/2018
4400001278	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	CANAL GIS INTEGRATION AND HOSTING SERVICES	S	2	8	N	N	1		185,921	89,742	86,400	96,179	10/20/2016	O	12/31/2019	
4400001284	DELL MARKETING LP C/O DELL USA LP ONE DELL WAY MS RR3-58 ROUND ROCK, TX 78664-7000 US	MICROSOFT LICENSES	E	B	7	F	N	1		561,670	373,115	187,223	188,555	8/28/2017	O	8/31/2020	
4400001323	ERIE COUNTY SHERIFF'S OFFICE 10 DELAWARE AVE BUFFALO, NY 14202 US	MARINE PATROL	S	1	9	N	N	1		40,000	32,591	32,591	7,409	4/1/2017	C		3/31/2018

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4400001325	COUNTY OF MADISON 138 N COURT ST PO BOX 665 WAMPSVILLE, NY 13163 US	MARINE PATROL	S	1	9	N	N	1		39,509	0	0	39,509	4/1/2017	C		3/31/2018
4400001326	COUNTY OF MONROE 130 S PLYMOUTH AVE ROCHESTER, NY 14614 US	MARINE PATROL	S	1	9	N	N	1		39,424	38,552	38,552	872	4/1/2017	C		3/31/2018
4400001327	NIAGARA COUNTY SHERIFF'S OFFICE 5526 NIAGARA ST EXT LOCKPORT, NY 14095 US	MARINE PATROL	S	1	9	N	N	1		40,000	0	0	40,000	4/1/2017	C		3/31/2018
4400001328	COUNTY OF ONEIDA 6065 JUDD RD ORISKANY, NY 13424 US	MARINE PATROL	S	1	9	N	N	1		40,000	0	0	40,000	4/1/2017	C		3/31/2018
4400001329	ONONDAGA COUNTY SHERIFF'S OFFICE 407 SOUTH STATE ST SYRACUSE, NY 13202 US	MARINE PATROL	S	1	9	N	N	1		40,000	0	0	40,000	4/1/2017	C		3/31/2018
4400001330	ORLEANS COUNTY SHERIFF'S OFFICE 13925 STATE ROUTE 31 ALBION, NY 14411 US	MARINE PATROL	S	1	9	N	N	1		10,000	9,282	9,282	718	4/1/2017	C		3/31/2018
4400001331	OSWEGO COUNTY SHERIFF'S OFFICE 39 CHURCHILL ROAD OSWEGO, NY 13126 US	MARINE PATROL	S	1	9	N	N	1		40,000	0	0	40,000	4/1/2017	C		3/31/2018
4400001332	COUNTY OF SCHENECTADY 620 STATE ST SCHENECTADY, NY 12305 US	MARINE PATROL	S	1	9	N	N	1		40,000	0	0	40,000	4/1/2017	C		3/31/2018
4400001333	COUNTY OF WASHINGTON 383 BROADWAY FORT EDWARD, NY 12828 US	MARINE PATROL	S	1	9	N	N	1		10,620	0	0	10,620	4/1/2017	C		3/31/2018
4400001334	A E Y ENTERPRISES INC 1607 COMMONS PKWY MACEDON, NY 14502-9191 US	PAVING	C	B	5	N	N	3		37,368	37,368	0	0	9/8/2017	C		3/31/2018
4400001375	SHELBY CRUSHED STONE INC 10830 BLAIR RD MEDINA, NY 14103 US	STONE, CRUSHED	E	B	7	N	N	1		9,250	727	394	8,523	9/15/2017	C		9/14/2018
4400001382	BONDED CONCRETE INC PO BOX 189 303 WATERVLIET RD WATERVLIET, NY 12189 US	CONCRETE	E	B	7	N	N	1		25,921	25,921	0	0	11/30/2017	C		11/29/2018
4400001387	TRACEY ROAD EQUIPMENT INC 6803 MANLIUS CENTER RD EAST SYRACUSE, NY 13057-3904 US	EXCAVATOR RENTAL	E	B	7	N	N	1		6,691	0	0	6,691	8/1/2017	C		1/31/2018
4400001394	MILLER MARQUART LUMBER CO LLC 35 INDUSTRIAL DR NORTH TONAWANDA, NY 14120-3244 US	LUMBER	E	B	5	N	N	1		7,460	7,460	0	0	12/6/2016	C		12/31/2018
4400001402	JONS JOHNS PORTABLE TOILETS WEBER SEPTIC & SEWER SERVICE INC 896 WARREN RD MOHAWK, NY 13407 US	PORT-O-JOHNS	E	B	5	N	N	1		5,300	5,212	3,622	88	11/1/2017	C		9/29/2018

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4400001475	MILLER MARQUART LUMBER CO LLC 35 INDUSTRIAL DR NORTH TONAWANDA, NY 14120-3244 US	LUMBER	E	B	5	N	N	1		24,428	24,428	24,428	0	1/1/2017	C		12/31/2018
4400001501	TRACEY ROAD EQUIP INC 6803 MANLIUS CENTER RD EAST SYRACUSE, NY 13057 US	TRAILER RENTAL	E	B	5	N	N	3		24,000	24,000	24,000	0	10/11/2017	C		4/30/2018
4400001515	MACLEODS LUMBER & HARDWARE INC PO BOX 217 WHITEHALL, NY 12887-0217 US	LUMBER	E	B	5	N	N	3		8,500	8,500	8,500	0	10/13/2017	C		1/31/2018
4400001533	LYRIS INC 401 CONGRESS AVE - STE 2650 AUSTIN, TX 78701-3708 US	NOTICE TO MARINERS SOFTWARE	E	2	5	F	N	1		34,940	34,940	0	0	10/18/2017	C		9/30/2018
4400001566	C P WARD INC 100 RIVER RD PO BOX 900 SCOTTSVILLE, NY 14546 US	CULVERT CLEANING AND INSPECTION	C	B		N	N	2		374,739	335,338	33,562	39,401	11/30/2017	C		4/3/2018
4400001571	C P WARD INC 100 RIVER RD PO BOX 900 SCOTTSVILLE, NY 14546 US	CULVERT CLEANING AND INSPECTION	C	B		N	N	2		347,984	275,698	138,710	72,286	11/30/2017	C		2/27/2018
4400001590	MILLER MARQUART LUMBER CO LLC 35 INDUSTRIAL DR NORTH TONAWANDA, NY 14120-3244 US	LUMBER	E	B	7	N	N	3		7,906	2,266	2,266	5,640	10/31/2017	C		7/31/2018
4400001594	VANTAGE EQUIPMENT LLC 5985 COURT STREET RD SYRACUSE, NY 13206-1707 US	HAUL TRUCK RENTAL	E	B	7	N	N	1		9,700	9,700	9,700	0	11/1/2017	C		1/31/2018
4400001602	STEPHENSON EQUIPMENT INC 6018 DROTT DR EAST SYRACUSE, NY 13057-2998 US	CRANE RENTAL	E	B	7	N	N	4		36,400	36,400	36,400	0	11/1/2017	C		4/30/2018
4400001606	ELLICOTT DREDGES LLC ELLICOTT DREDGE ENTERPRISES LLC, EL 1425 WICOMICO ST BALTIMORE, MD 21230 US	HYDRAULIC DREDGE	E	B		F	N	2		2,620,650	1,800,000	800,000	820,650	11/6/2017	C		6/30/2018
4400001638	ELLICOTT DREDGES LLC ELLICOTT DREDGE ENTERPRISES LLC, EL 1425 WICOMICO ST BALTIMORE, MD 21230 US	ELLICOTT PARTS	E	2	5	F	N	1		45,478	45,478	45,478	0	11/7/2017	C		1/30/2018
4400001640	MOHAWK VALLEY MATERIALS INC 9788 RIVER RD MARCY, NY 13403-2049 US	BOND PAYMENT	E	B	5	N	03	1		24,562	24,562	0	0	11/8/2017	C		7/31/2018
4400001649	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	FLEET	E	B	7	N	N	1		36,188	36,188	0	0	12/4/2017	C		12/3/2018

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4400001659	PITTSBURGH FOUNDRY & MACHINE CO 20 36TH ST PITTSBURGH, PA 15201 US	STEEL CASTINGS	E	B	7	F	N	1		56,545	55,980	55,980	565	11/15/2017	C		6/1/2018
4400001666	ATLANTIC FLUID POWER INC ATLANTIC HYDRAULIC SYSTEMS INC 90 PRECISION DR SHIRLEY, NY 11967-4702 US	HYDRAULIC PARTS	E	B		N	N	5		24,636	24,636	24,636	0	11/16/2017	C		1/31/2018
4400001673	NRC NY ENVIRONMENTAL SERVICES INC 1260 SCOTTSVILLE RD STE 102 ROCHESTER, NY 14624 US	SPILL CLEANUP	S	C	1	N	N	1		30,000	15,227	15,227	14,773	11/16/2017	C		1/30/2018
4400001675	ATLANTIC FLUID POWER INC ATLANTIC HYDRAULIC SYSTEMS INC 90 PRECISION DR SHIRLEY, NY 11967-4702 US	VALVE HPU	E	B		N	N	5		24,636	24,636	24,636	0	11/16/2017	C		1/31/2018
4400001676	DIVAL SAFETY EQUIPMENT INC 1721 NIAGARA ST BUFFALO, NY 14207-3108 US	AED SYSTEMS	E	B	7	N	N	1		61,123	61,123	0	0	11/20/2017	C		1/31/2018
4400001679	ATLANTIC FLUID POWER INC ATLANTIC HYDRAULIC SYSTEMS INC 90 PRECISION DR SHIRLEY, NY 11967-4702 US	GATE HPU	E	B		N	N	4		203,491	203,491	203,491	0	11/16/2017	C		1/31/2018
4400001680	ATLANTIC FLUID POWER INC ATLANTIC HYDRAULIC SYSTEMS INC 90 PRECISION DR SHIRLEY, NY 11967-4702 US	GATE HPU	E	B	8	N	N	4		203,491	203,491	203,491	0	11/16/2017	C		1/31/2018
4400001687	POSEIDON BARGE LTD 3101 NEW HAVEN AVE FORT WAYNE, IN 46803-2744 US	PRE ENGINEERED BARGE SYSTEM FOR THE UTICA CANAL CORP	E	B		F	N	2		101,573	101,573	101,573	0	12/8/2017	C		5/11/2018
4400001693	POSEIDON BARGE LTD 3101 NEW HAVEN AVE FORT WAYNE, IN 46803-2744 US	FLEXIFLOATS FOR FONDA CANAL LOCATION	E	B		F	N	2		438,453	438,453	438,453	0	12/5/2017	C		4/1/2018
4400001694	STEPHENSON EQUIPMENT INC 1886 DUANESBURG RD DUANESBURG, NY 12056 US	CRANE RENTAL	E	B	7	N	N	1		60,600	60,600	46,800	0	11/20/2017	C		3/30/2018
4400001710	ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE INC 380 NEW YORK ST REDLANDS, CA 92373-8100 US	MAINTENANCE - ARC GIS	S	B	7	N	N	1		18,506	13,805	13,805	4,701	11/18/2017	C		11/17/2018
4400001715	ELLICOTT DREDGES LLC ELLICOTT DREDGE ENTERPRISES LLC, EL 1425 WICOMICO ST BALTIMORE, MD 21230 US	SUCTION HOSE PARTS	E	2	5	F	N	1		7,747	7,747	7,747	0	11/27/2017	C		4/30/2018
4400001716	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	MAINTENANCE - ACCELA SOFTWARE	S	B	7	N	N	1		65,303	34,803	34,803	30,500	11/8/2017	C		11/7/2018

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4400001734	HP INC 1501 PAGE MILL RD PALO ALTO, CA 94304-1126 US	HP ELITEBOOK LAPTOPS WITH MAINTENANCE, CASES	E	B	7	F	N	1		62,604	62,604	62,284	0	12/1/2017	C		1/12/2018
4400001739	HYPACK INC 56 BRADLEY ST MIDDLETOWN, CT 06457 US	DREDGEPACK MONITORING SOFTWARE	I	1	6	F	N	1		33,045	31,579	31,579	1,466	12/4/2017	C		1/1/2018
4400001741	STRATEGIC RESPONSE INITIATIVES LLC 44 DALLIBA AVE STE 204 WATERVLIET, NY 12189-4017 US	FLAMMABLE CABINETS	E	B	7	N	02	1		46,082	46,082	0	0	12/4/2017	C		12/31/2018
4400001764	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	LICENSES AND MAINTENANCE	E	B	6	N	N	3		13,335	13,335	13,335	0	12/8/2017	C		12/7/2018
4400001769	RIG ALL INC 2322 BROAD ST FRANKFORT, NY 13340 US	CRANE RENTAL	E	C	5	N	N	1		7,420	7,420	7,420	0	12/7/2017	C		1/31/2018
4400001770	RIG ALL INC 2322 BROAD ST FRANKFORT, NY 13340 US	CRANE RENTAL	E	C	5	N	N	1		7,420	7,420	7,420	0	12/7/2017	C		4/30/2018
4400001775	QUALITY TOOL & EQUIPMENT INC BEST BUY AUTO EQUIPMENT 42660 RIO NEDO TEMECULA, CA 92590-3710 US	TIRE BALANCER FOR ALBION	E	B	5	F	N	3		8,150	8,150	8,150	0	12/8/2017	C		1/26/2018
4400001780	TRADEBE ENVIRONMENTAL SERVICES LLC 47 GRACEY MERIDEN, CT 06451 US	NON HAZARDOUS WASTE REMOVAL	S	C	5	N	N	1		5,548	5,548	5,548	0	12/11/2017	C		3/20/2018
4400001782	HANES SUPPLY INC RAILROAD AVE COLONIE, NY 12205 US	PORTABLE GANTRY	E	B	5	N	N	3		5,478	5,478	5,478	0	12/11/2017	C		1/31/2018
4400001789	PUMP SERVICE AND SUPPLY OF TROY INC 1 REGATTA PLACE TROY, NY 12180-1229 US	DEWATERING PUMP OUT	E	C	5	N	01	3		10,500	3,000	3,000	7,500	12/12/2017	C		5/30/2018
4400001791	MOBILE MINI INC 1353 INDIAN FIELDS RD FEURA BUSH, NY 12067-1707 US	MINI STORAGE	E	C	5	N	N	3		16,146	16,146	16,146	0	12/12/2017	C		1/31/2018
4400001792	MOBILE MINI INC 1353 INDIAN FIELDS RD FEURA BUSH, NY 12067-1707 US	MOBIL MINI	E	C	5	N	N	3		16,146	16,146	16,146	0	12/12/2017	C		1/31/2018
4400001803	ENTERPRISE HOLDINGS INC DBA ENTPERPRISE RENT A TRUCK 1320 BROOKS AVE ROCHESTER, NY 14624-3116 US	AUTO RENTALS	E	B	7	N	N	1		73,000	65,179	65,179	7,821	1/1/2018	O	10/18/2019	
4400001809	MILLERS ISLAND PROPELLER INC 2200 SPARROWS POINT RD BALTIMORE, MD 21219-1743 US	PROPELLER FOR SYRACUSE CANAL	E	B	5	F	N	3		5,947	5,947	5,947	0	12/19/2017	C		12/18/2018
4400001818	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	MAINTENANCE - SAP	S	B	7	N	N	1		36,633	36,633	36,633	0	1/1/2018	C		1/31/2018

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4400001824	ADMAR SUPPLY CO INC STE 1 1950 BRIGHTON HENRIETTA TL RD ROCHESTER, NY 14623-2597 US	4 MONTH RENTAL AGREEMENT FOR BOOM LIFT AND AIR COMPRESSOR LOCKE 4	E	B	7	N	N	1		11,541	11,521	11,521	20	12/27/2017	C		4/29/2018
4400001827	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	EARTHQUAKE DETECTION AND MONITORING TOOL HOSTING AND SERVICES	S	2	8	N	N	1		190,428	60,855	60,855	129,573	1/1/2018	O	12/31/2019	
4400001834	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	CANAL INTEGRATION-PERMIT ISSUANCE APPLICATION	P	B	7	N	N	1		126,500	118,596	118,596	7,904	8/21/2017	C		8/21/2018
4400001836	TRADEBE ENVIRONMENTAL SERVICES LLC 47 GRACEY MERIDEN, CT 06451 US	NON HAZARDOUS WASTE REMOVAL	S	C	6	F	N	1		5,076	5,076	5,076	0	1/3/2018	C		4/30/2018
4400001844	US DEPT OF AGRICULTURE ANIMAL & PLANT HEALTH INSPECTION PO BOX 979043 ST LOUIS, MO 63197-9000 US	USDA PRIMAL AND PLANT HEALTH INSPECTION SERVICES	S	B	7	N	N	1		243,516	51,095	51,095	192,421	1/1/2017	O	12/31/2019	
4400001852	STONE INDUSTRIES LLC STONE PORTABLE TOILET RENTALS 4305 ROUTE 50 SARATOGA SPRINGS, NY 12866-2914 US	PORTABLE TOILET RENTALS	E	B	5	N	N	1		5,558	5,200	5,200	358	1/3/2018	C		12/31/2018
4400001861	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	CABLES AND ACCESSORIES	E	B		N	N	1		106,073	106,073	106,073	0	1/10/2018	C		12/31/2018
4400001863	HANSON AGGREGATES NEW YORK LLC 4800 JAMESVILLE RD PO BOX 513 JAMESVILLE, NY 13078 US	AGGREGATES	E	B	6	N	N	1		15,000	11,069	11,069	3,931	1/1/2018	O	4/14/2021	
4400001867	UNITED RENTALS (NORTH AMERICA) INC UNITED RENTALS 7178 SCHUYLER RD EAST SYRACUSE, NY 13057-9743 US	TOILET RENTALS	E	B	5	N	N	1		10,000	6,500	6,500	3,500	1/1/2018	O	10/20/2019	
4400001870	STONE INDUSTRIES LLC STONE PORTABLE TOILET RENTALS 4305 ROUTE 50 SARATOGA SPRINGS, NY 12866-2914 US	TOILET RENTALS	E	B	5	N	N	1		8,158	7,280	7,280	878	1/3/2018	C		12/31/2018
4400001871	NOBLE GAS SOLUTIONS 10 ERIE BLVD STE 1 ALBANY, NY 12204-2523 US	COMPRESSED GAS	E	B	7	N	N	1		5,339	4,246	4,246	1,093	1/1/2018	C		12/31/2018
4400001873	THORPE ELECTRIC SUPPLY NC 27 WASHINGTON ST RENSSELAER, NY 12144 US	ELEC SUPPLIES	E	B	5	N	N	1		5,010	5,010	5,010	0	1/1/2018	C		12/31/2018

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4400001875	STONE INDUSTRIES LLC STONE PORTABLE TOILET RENTALS 4305 ROUTE 50 SARATOGA SPRINGS, NY 12866-2914 US	TOILET RENTAL	E	B	5	N	N	1		16,280	7,280	7,280	9,000	1/1/2018	O	4/30/2020	
4400001876	NOBLE GAS SOLUTIONS 10 ERIE BLVD STE 1 ALBANY, NY 12204-2523 US	RENTAL OF CYLINDERS	E	B	5	N	N	1		5,559	5,218	5,218	341	1/10/2018	C		12/31/2018
4400001881	PECKHAM MATERIALS CORP PECKHAM INDUSTRIES INC (PARENT) UNION ST ATHENS, NY 12015 US	GRAVEL	E	B	7	N	N	1		40,000	797	797	39,203	1/1/2018	O	4/14/2021	
4400001892	HERMAN MILLER INC C/O ACCENT COMM FURNITURE INC 855 E MAIN AVE ZEELAND, MI 49464-1372 US	OFFICE RELOCATION AND FURNITURE	E	B	7	N	N	1		76,066	76,066	76,066	0	1/10/2018	C		6/30/2018
4400001933	NOMAR ENTERPRISE LLC DBA RUGGED DEPOT 27060 DECKER PRARIE ROSHEILL RD MAGNOLIA, TX 77355-8437 US	PANASONIC CF-53 TOUGHBOOK AND SMARTCARD KIT	H	2	6	F	N	1		11,482	11,470	11,470	12	1/20/2018	C		2/2/2018
4400001934	MARTIN PILING & LUMBER CO 100 DAVIDSON AVE SUITE 109 SOMERSET, NJ 08873 US	LUMBER	E	B	5	N	N	2		11,277	11,277	11,277	0	1/22/2018	C		3/30/2018
4400001945	BENTLEY SYSTEMS INC 685 STOCKTON DR EXTON, PA 19341-1151 US	MAINTENANCE - BENTLEY SOFTWARE	S	B	7	N	N	1		15,318	15,318	15,318	0	1/31/2018	O	1/30/2019	
4400001955	UNITED UNIFORM DISTRIBUTION LLC SUBSIDIARY OF SAFARILAND LLC 495 N FRENCH RD BUFFALO, NY 14228-2124 US	UNIFORMS	E	B	5	N	N	1		9,300	3,329	3,329	5,971	1/24/2018	O	12/31/2019	
4400001958	UNITED UNIFORM DISTRIBUTION LLC SUBSIDIARY OF SAFARILAND LLC 495 N FRENCH RD BUFFALO, NY 14228-2124 US	UNIFORMS	E	B	5	N	N	1		9,000	4,498	4,498	4,502	1/24/2018	O	12/31/2019	
4400001975	CUSHING STONE CO INC 725 STATE HIGHWAY 5S AMSTERDAM, NY 12010-7669 US	SAND, STONE, AND GRAVEL	E	B	5	N	N	1		28,500	9,996	9,996	18,504	1/25/2018	O	4/14/2021	
4400001997	R M LILL INC 1263 RTE 9 CASTLETON, NY 12033 US	SANDBLASTING	S	B	5	N	N	3		6,660	6,660	6,660	0	1/31/2018	C		2/20/2018
4400001998	BENTLEY SYSTEMS INC 685 STOCKTON DR EXTON, PA 19341-1151 US	PROJECTWISE	E	2	5	F	N	1		22,500	19,500	19,500	3,000	2/1/2018	C		12/31/2018
4400002019	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	CRANE BASKET FOR CRANE LIFT TO ALBION LOCATION ALBION WILL PICK UP FROM VENDOR	E	C	5	N	N	3		8,450	8,450	8,450	0	2/4/2018	C		2/28/2018

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4400002020	BURT CRANE & RIGGING DBA FOR SCHEIB CORP 5 VETERANS MEMORIAL DR GREEN ISLAND, NY 12183 US	CRANE RENTAL	E	M	5	N	03	3		48,496	47,705	47,705	791	2/5/2018	C		6/30/2018
4400002030	JOHN M MULLINS RIGGING & HAULING INC 1 PINE ST GREEN ISLAND, NY 12183-1005 US	CRANE REMOVAL	S	B	5	N	N	3		14,200	14,200	14,200	0	2/6/2018	C		3/31/2018
4400002031	CARVER CONSTRUCTION INC 494 WESTERN TPKE STE 1 ALTAMONT, NY 12009-2095 US	CANAL: TRAILWAY PROJECT FORT HERKIMER TO LOCK E-18	C	B		N	N	9		3,338,334	3,286,356	3,286,356	51,978	3/1/2018	O	5/31/2019	
4400002034	BLUE OX ROOFING DBA FOR RJM ROOFING INC 2139 LOCKPORT RD NIAGARA FALLS, NY 14304-1108 US	ROOF REPAIR	S	C	5	N	N	4		9,073	9,073	9,073	0	2/8/2018	C		4/30/2018
4400002037	NAYLOR PIPE COMPANY 1230 E 92ND ST CHICAGO, IL 60619-7997 US	NAYLOR PIPE COUPLINGS FOR LYONS CANALS LOCATION	E	B	6	N	N	1		6,647	6,647	6,647	0	2/8/2018	C		4/30/2018
4400002043	HP INC 1501 PAGE MILL RD PALO ALTO, CA 94304-1126 US	IT HARDWARE	E	B	7	N	N	1		5,480	995	995	4,485	2/8/2018	C		3/31/2018
4400002049	STONE INDUSTRIES LLC STONE PORTABLE TOILET RENTALS 4305 ROUTE 50 SARATOGA SPRINGS, NY 12866-2914 US	CANALS - T-14160 PORTABLE TOILET RENTAL LYONS	E	B	5	N	N	1		15,658	14,625	14,625	1,033	1/1/2018	O	4/30/2020	
4400002066	BARRETT MARINE INC 485 WEST RIVER RD WATERLOO, NY 13165-8726 US	OUTBOARD MOTOR	E	B	5	N	N	3		8,497	8,497	8,497	0	2/14/2018	C		2/28/2018
4400002084	MOHAWK VALLEY MATERIALS INC 9788 RIVER RD MARCY, NY 13403-2049 US	VEGETATION MANAGEMENT	C	B		N	03	2		65,044	65,044	65,044	0	2/16/2018	C		9/17/2018
4400002104	COUNTY WASTE & RECYCLING SERVICE IN 1927 ROUTE 9 PO BOX 431 CLIFTON PARK, NY 12065 US	RUBBISH REMOVAL	S	B	7	N	N	1		10,000	4,514	4,514	5,486	2/22/2018	O	12/31/2020	
4400002106	WASTE MANAGEMENT LLC 1661 MOUNT READ BLVD ROCHESTER, NY 14606 US	RUBBISH REMOVAL	S	B	7	N	N	1		25,000	16,415	16,415	8,585	2/22/2018	O	2/27/2019	
4400002107	BENTLEY SYSTEMS INC 685 STOCKTON DR EXTON, PA 19341-1151 US	MAINTENANCE - BENTLEY SOFTWARE	S	B	7	F	N	1		21,644	21,643	21,643	1	1/1/2018	C		12/31/2018
4400002119	PENNONI ASSOCIATES INC 3100 HORIZON DR STE 200 KING OF PRUSSIA, PA 19406-2660 US	BYPASS CULVERT CONSTRUCTION SHOP INSPECTION	P	B	5	F	N	1		13,877	13,877	13,877	0	2/27/2018	C		2/27/2018
4400002134	FRENCH CREEK MARINA LLC 250 WAHL ST CLAYTON, NY 13624-1408 US	YANMAR MARINE ENGINE	E	B	8	N	N	1		32,498	32,498	32,498	0	2/28/2018	C		3/31/2018

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4400002141	SANDMANS RCD PO BOX 100 MANCHESTER, NY 14504 US	ELEANOR CREW BOAT RECONDITIONING AND REMOVAL OF LBP SOLE/	P	1	8	N	N	2		8,250	8,250	8,250	0	3/2/2018	C		4/2/2018
4400002161	DHI WATER AND ENVIRONMENT 141 UNION BLVD STE 250 LAKEWOOD, CO 80228-2206 US	FLOOD WARNING OPTIMIZATION SYSTEM GAP ANALYSIS	P	1	8	F	N	1		173,067	0	0	173,067	3/6/2018	C		12/31/2018
4400002170	MOBILE MINI INC 1353 INDIAN FIELDS RD FEURA BUSH, NY 12067-1707 US	STORAGE CONTAINERS	E	B	5	N	N	3		5,298	5,298	5,298	0	3/8/2018	C		3/30/2018
4400002187	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	ACCELA CIVIC PLATFORM SILVER SUBSCRIPTION	I	B	7	N	N	1		12,677	12,677	12,677	0	3/19/2018	O	3/18/2019	
4400002208	CHRIS RAPP CRS MARINE SERVICE INC 2103 CHRISLER AVE SCHENECTADY, NY 12303-1520 US	OUTBOARD ENGINE	E	B	5	N	N	3		6,800	6,800	6,800	0	3/15/2018	C		9/18/2018
4400002210	TRACEY ROAD EQUIP INC 115 RAILROAD AVE ALBANY, NY 12205 US	TRAILER	E	B	7	N	N	1		35,904	35,904	35,904	0	3/15/2018	C		7/30/2018
4400002211	E & V ENERGY CORP 2097 ROUTE 14 GENEVA, NY 14456 US	CAST IRON BOILER WITH INSTALLATION	E	B	5	N	N	1		5,777	5,777	5,777	0	3/15/2018	C		4/30/2018
4400002216	WOODS CRW CORP PO BOX 1099 795 MARSHALL AVE WILLISTON, VT 05495 US	EQUIPMENT RENTAL	E	B	5	N	N	4		74,400	72,200	72,200	2,200	3/20/2018	C		5/31/2018
4400002219	WESCO INSURANCE COMPANY 800 SUPERIOR AVE E STE 2100 CLEVELAND, OH 44114-2601 US	PAID FAMILY LEAVE COVERAGE	P	2	8	N	N	1		5,000	0	0	5,000	3/20/2018	C		12/31/2018
4400002225	HAUN WELDING SUPPLY INC 728 BROAD ST UTICA, NY 13501 US	CANALS - WELDING EQ	E	C	5	N	N	1		6,500	4,337	4,337	2,163	3/20/2018	O	3/6/2019	
4400002234	TROY BOILER WORKS INC 2800 7TH AVE TROY, NY 12180-1587 US	REPLACEMENT OF MAIN CIRCULATION PUMP REPLACEMENT IN MACHINE SHOP	S	C	6	N	01	4		5,109	5,109	5,109	0	3/21/2018	C		3/30/2018
4400002239	EDBAUER CONSTRUCTION DBA FOR KELEMAN-BAUER CONSTRUCTION 2790 CLINTON ST WEST SENECA, NY 14224-1350 US	TRAIL AMHERST TO LOCKPORT PHASE 2	C	B		N	N	5		3,961,000	2,030,668	2,030,668	1,930,332	4/18/2018	O	6/28/2019	
4400002243	CIVES CORPORATION VIKING CIVES 14331 MILL ST HARRISVILLE, NY 13648 US	PLOW	E	B	5	N	N	1		5,950	5,950	5,950	0	3/22/2018	C		4/30/2018
4400002244	ALTEC INDUSTRIES INC PO BOX 11407 BIRMINGHAM, AL 35246-0414 US	BUCKET TRUCK	E	B	7	F	N	1		127,412	127,412	127,412	0	3/22/2018	C		7/31/2018
4400002245	ALTEC INDUSTRIES INC PO BOX 11407 BIRMINGHAM, AL 35246-0414 US	BUCKET TRUCK	E	B	7	F	N	1		127,412	127,412	127,412	0	3/22/2018	C		7/31/2018

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4400002254	ROBERT GREEN AUTO & TRUCK INC 236 BRIDGEVILLE RD MONTICELLO, NY 12701-3853 US	SPREADER	E	B	5	N	N	3		14,144	14,144	14,144	0	3/23/2018	C		7/29/2018
4400002255	CAZENOVIA EQUIPMENT CO INC 8186 SENECA TPKE CLINTON, NY 13323 US	MARINE PARTS	E	B	5	N	N	3		12,362	0	0	12,362	3/23/2018	C		7/30/2018
4400002258	LAYER 3 TECHNOLOGIES INC 1645 LYELL AVE STE 200 ROCHESTER, NY 14606-2331 US	MAINTENANCE - SOPHOS	S	B	7	N	03	1		9,200	9,200	9,200	0	3/31/2018	O	3/30/2019	
4400002262	CIVES CORPORATION VIKING CIVES 14331 MILL ST HARRISVILLE, NY 13648 US	REVERSIBLE PLOW	E	B	5	N	N	1		6,000	6,000	6,000	0	3/27/2018	C		10/29/2018
4400002263	ADMAR SUPPLY CO INC 878 ALBANY SHAKER RD LATHAM, NY 12110-1458 US	45' STRAIGHT BOOM LIFT	E	B	7	N	N	1		80,837	80,837	80,837	0	3/27/2018	C		9/30/2018
4400002264	ADMAR SUPPLY CO INC 878 ALBANY SHAKER RD LATHAM, NY 12110-1458 US	45' ARTICULATING BOOM LIFT	E	B	7	N	N	1		82,465	82,465	82,465	0	3/27/2018	C		9/18/2018
4400002273	PRIORITY CONNECTIONS LLC 6260 S BAY RD CICERO, NY 13039-8812 US	CARD ACCESS INSTALLATION DATABASE SECURITY SYSTEM	P	B	7	N	N	1		11,910	11,910	11,910	0	4/2/2018	C		4/2/2018
4400002284	FLEET MAINTENANCE INC 67 RANSIER DR WEST SENECA, NY 14224-2290 US	4900 CHASSIS	E	B	7	N	03	1		148,143	0	0	148,143	3/29/2018	C		12/31/2018
4400002289	FORT MILLER CO INC PO BOX 98 SCHUYLERVILLE, NY 12871 US	TRAFFIC BARRIERS FOR WATERFORD CANAL LOCATION	E	B	6	N	N	3		9,000	9,000	9,000	0	3/30/2018	C		4/30/2018
4400002291	ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE INC 380 NEW YORK ST REDLANDS, CA 92373-8100 US	MAINTENANCE - SOFTWARE	S	B	7	F	N	1		17,308	17,308	17,308	0	4/2/2018	O	4/1/2019	
4400002293	MIDWAY INDUSTRIAL SUPPLY INC PO BOX 303 - 51 WURZ AVE UTICA, NY 13503-0303 US	PAINT/TINT/ENAMEL	E	B	6	N	N	3		9,326	9,326	9,326	0	4/2/2018	C		6/29/2018
4400002299	AUTOMOTIVE RENTALS INC 40001 LEADENHALL RD MOUNT LAUREL, NJ 08054-4611 US	FLEET MAINTENANCE COST FOR NYS CANAL CORP	E	B	7	N	N	1		700,000	330,897	330,897	369,103	4/6/2018	O	2/2/2020	
4400002303	DELL MARKETING LP C/O DELL USA LP ONE DELL WAY MS RR3-58 ROUND ROCK, TX 78664-7000 US	MICROSOFT TRUE-UP LICENSES	I	B	7	N	N	1		48,503	48,503	48,503	0	4/9/2018	C		6/30/2018
4400002333	DEERE & COMPANY AG & TURF CBD & GOVERNMENT SALES 2000 JOHN DEERE RUN CARY, NC 27513-2789 US	JD TRACTORS	E	B	7	N	N	1		207,801	207,801	207,801	0	4/13/2018	C		8/1/2018

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4400002335	DEERE & COMPANY AG & TURF CBD & GOVERNMENT SALES 2000 JOHN DEERE RUN CARY, NC 27513-2789 US	MOWERS	E	B	7	N	N	1		18,170	18,170	18,170	0	4/13/2018	C		8/1/2018
4400002336	DEERE & COMPANY AG & TURF CBD & GOVERNMENT SALES 2000 JOHN DEERE RUN CARY, NC 27513-2789 US	TRACTOR	E	B	7	N	N	1		38,244	38,244	38,244	0	4/13/2018	C		8/1/2018
4400002337	DEERE & COMPANY AG & TURF CBD & GOVERNMENT SALES 2000 JOHN DEERE RUN CARY, NC 27513-2789 US	TRACTOR	E	B	7	N	N	1		50,191	50,191	50,191	0	4/13/2018	C		8/1/2018
4400002366	MICROSOFT CORP 3000 BAYPORT DR - STE 480 TAMPA, FL 33607 US	MICROSOFT SUPPORT	S	B	7	N	N	1		33,935	33,935	33,935	0	6/28/2018	O	6/27/2019	
4400002367	MOLEY MAGNETICS INC 5202 COMMERCE DR LOCKPORT, NY 14094 US	OVERHAUL OF DC MOTOR FOR ALBION CANAL LOCATION	S	C	6	N	N	3	*	16,673	16,673	16,673	0	4/19/2018	C		5/31/2018
4400002368	C S X TRANSPORTATION INC 6737 SOUTHPOINT DR S - J180 JACKSONVILLE, FL 32216-6177 US	RAILROAD CROSSING MAINTENANCE	S	1	5	N	N	1		10,637	10,637	10,637	0	4/19/2018	C		4/30/2018
4400002371	WASTE MANAGEMENT LLC 1661 MOUNT READ BLVD ROCHESTER, NY 14606 US	DUMPSTER	E	B	7	N	N	1		10,000	0	0	10,000	4/19/2018	O	4/18/2019	
4400002377	THE EMPIRE CRANE CO LLC 7021 PERFORMANCE DR NORTH SYRACUSE, NY 13212 US	CRANE	E	B		N	N	3		365,000	365,000	365,000	0	4/20/2018	C		5/31/2018
4400002390	MOHAWK VALLEY MATERIALS INC 9788 RIVER RD MARCY, NY 13403-2049 US	TREE REMOVAL	C	B		F	03	2		289,000	289,000	289,000	0	4/23/2018	C		9/17/2018
4400002392	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	5	N	N	1		10,000	483	483	9,517	1/1/2017	C		6/30/2018
4400002398	SOUTHWORTH-MILTON INC 500 COMMERCE DR CLIFTON PARK, NY 12065 US	CAT TL	E	B	7	N	N	1		168,345	0	0	168,345	4/23/2018	C		11/30/2018
4400002402	RIG ALL INC 2322 BROAD ST FRANKFORT, NY 13340 US	RIG ALL RENTAL	E	B	5	N	N	1		6,675	6,675	6,675	0	4/24/2018	C		10/29/2018
4400002408	THE EMPIRE CRANE CO LLC 7021 PERFORMANCE DR NORTH SYRACUSE, NY 13212 US	USED RT CRANE	E	B		N	N	4		289,000	289,000	289,000	0	4/25/2018	C		5/30/2018
4400002411	CAPPELLINO CHEVROLET INC 9000 BOSTON STATE RD BOSTON, NY 14025 US	SEDAN	E	B	7	N	N	3		21,523	21,523	21,523	0	4/25/2018	C		9/30/2018
4400002456	ADVANCE MARINE LLC 900 SMITHS BRIDGE RD WILMINGTON, DE 19807-1330 US	MARINE DECK CRANE WATERFORD CANAL LOCATION	E	B		F	N	3		265,000	198,750	198,750	66,250	5/2/2018	O	5/1/2019	

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4400002457	ALPHA ANALYTICAL INC 145 FLANDERS RD WESTBOROUGH, MA 01581-1031 US	PAINT TESTING FOR PCB'S AND LEAD MATERIALS	E	B	5	N	N	1		5,696	5,696	5,696	0	5/2/2018	C		5/31/2018
4400002465	NOCO ENERGY CORP 2440 SHERIDAN DR - STE 202 TONAWANDA, NY 14150-9493 US	FUEL	E	B	7	N	N	1		10,000	707	707	9,293	5/3/2018	O	4/30/2019	
4400002477	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	SPREADER	E	B	5	N	N	3		14,144	14,144	14,144	0	5/7/2018	C		8/30/2018
4400002482	WEST MARINE PRODUCTS INC WEST MARINE PRO 500 WESTRIDGE DR WATSONVILLE, CA 95076-4100 US	FLOAT COATS	E	B	5	N	N	4		19,817	6,077	6,077	13,740	5/22/2018	C		11/30/2018
4400002489	POSEIDON BARGE LTD 3101 NEW HAVEN AVE FORT WAYNE, IN 46803-2744 US	2 SPUD BARGES TO BE DELIVERED TO UTICA CANAL LOCATION	E	C	6	F	N	2		29,922	28,972	28,972	950	5/8/2018	C		5/31/2018
4400002493	ANDERSON EQUIPMENT CO 2140 MILITARY RD TONAWANDA, NY 14150-6002 US	TRUCK RENTAL	E	C	6	N	N	3		7,114	7,114	7,114	0	5/9/2018	C		5/9/2018
4400002502	KOFAX INC 15211 LAGUNA CANYON RD IRVINE, CA 92618-3146 US	CONSULTING SERVICES - AP AUTOMATION	P	1	8	N	N	1		19,875	19,875	19,875	0	5/10/2018	O	5/9/2019	
4400002503	DONJON MARINE CO INC 100 CENTRAL AVE HILLSIDE, NJ 07205-2306 US	VESSEL REEFING	C	C	8	N	N	2		715,435	699,435	699,435	16,000	4/1/2018	C		9/30/2018
4400002504	VILLAGE OF NEWARK 100 E MILLER ST NEWARK, NY 14513 US	CANALS: MILITARY BROOK CULVERT PROJECT	C	B	9	N	N	2		600,000	0	0	600,000	8/1/2018	O	7/31/2019	
4400002506	AMERICAN ROCK SALT CO LLC DBA FOR AMERICAN ROCK SALT HOLDING PO BOX 190 MOUNT MORRIS, NY 14510-0190 US	ROCK SALT	E	B	7	N	N	1		5,000	0	0	5,000	5/14/2018	O	8/31/2019	
4400002507	CHALMERS & KUBECK NORTH INC 24-34 ELISE ST WESTFIELD, MA 01085 US	GEARBOX	E	2	5	F	N	1		14,900	13,561	13,561	1,339	5/14/2018	C		8/30/2018
4400002508	HAWK DRILLING CO INC 354 STONE CHURCH RD BALLSTON SPA, NY 12020-4610 US	WELL DRILLING	E	2	5	N	N	1		16,008	0	0	16,008	5/14/2018	C		7/31/2018
4400002509	PARR INDUSTRIES II INC 500 11TH ST PULASKI, TN 38478 US	DISPOSAL OF CONTAMINATED MATERIAL	S	B	5	N	N	1		5,150	5,150	5,150	0	5/14/2018	C		7/31/2018
4400002511	THRUSTMASTER OF TEXAS INC 6900 THRUSTMASTER DR HOUSTON, TX 77041 US	HYDRAULIC MOTOR REQUEST NEED TO REPAIR SPS 51 OUT DRIVE UNIT	E	C	6	F	N	1	*	8,289	8,289	8,289	0	5/14/2018	C		5/31/2018
4400002520	TRACEY ROAD EQUIP INC 6803 MANLIUS CENTER RD EAST SYRACUSE, NY 13057 US	LOWBOY TRAILER	E	2	8	N	N	1		69,312	69,312	69,312	0	5/17/2018	C		6/30/2018

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4400002530	ELDERLEE INC 729 CROSS RD OAKS CORNERS, NY 14518 US	NYS TRAILWAY MARKERS AND SIGNS	E	B	7	N	N	3		20,000	0	0	20,000	5/17/2018	O	5/16/2019	
4400002551	MCQUADE & BANNIGAN INC 1300 STARK ST - PO BOX 476 UTICA, NY 13503 US	GENERATOR	E	B	5	N	N	1		44,398	44,198	44,198	200	5/21/2018	C		6/30/2018
4400002557	MCQUADE & BANNIGAN INC 6300 E MOLLOY RD EAST SYRACUSE, NY 13057 US	GENERATOR	E	B	5	N	N	2		20,324	0	0	20,324	5/22/2018	C		7/31/2018
4400002570	LAFARGE NORTH AMERICA INC 1717 NEW RD NIAGARA FALLS, NY 14304-1547 US	FINE AND COARSE AGGREGATES	E	B	7	N	N	1		15,000	1,307	1,307	13,693	5/25/2018	O	5/1/2019	
4400002574	MCQUADE & BANNIGAN INC 1300 STARK ST - PO BOX 476 UTICA, NY 13503 US	GENERATOR	E	B	5	N	N	1		20,324	20,324	20,324	0	5/30/2018	C		7/31/2018
4400002575	VANTAGE EQUIPMENT LLC 5985 COURT STREET RD SYRACUSE, NY 13206-1707 US	TRUCK	E	B	5	N	N	1		9,700	9,100	9,100	600	5/30/2018	C		7/31/2018
4400002578	DLT SOLUTIONS LLC 2411 DULLES CORNER PARK - STE 800 HERNDON, VA 20171-6168 US	SOFTWARE AND MAINTENANCE - ACTIVE DIRECTORY	E	B	7	N	N	1		20,264	20,264	20,264	0	6/1/2018	O	5/31/2019	
4400002600	KLEIN STEEL SERVICE INC 105 VANGUARD PKWY ROCHESTER, NY 14606-3100 US	RAW STEEL	E	B	5	N	N	3		24,025	23,940	23,940	85	6/4/2018	C		6/30/2018
4400002603	VANTAGE EQUIPMENT LLC 5985 COURT STREET RD SYRACUSE, NY 13206-1707 US	RENTAL OF HAULER	E	B	5	N	N	1		9,700	9,700	9,700	0	6/6/2018	C		6/6/2018
4400002613	PARTNERS ENVIRONMENTAL CONSULTING INC 31100 SOLON RD - STE G SOLON, OH 44139-3463 US	ASBESTOS AND PCB REMEDIATION ON ONE OF NYS CANAL BOATS	S	B	5	F	N	1		5,483	5,483	5,483	0	6/7/2018	C		6/30/2018
4400002621	BARRE STONE PRODUCTS INC 14120 W LEE RD ALBION, NY 14411 US	FINE AND COARSE AGGREGATES	E	C	5	N	N	1		20,000	7,862	7,862	12,138	6/10/2018	O	6/9/2019	
4400002623	ALLIANCE DOOR & HARDWARE INC 55 ALLIANCE DR STE 1 ROCHESTER, NY 14623 US	FURNISH, DELIVER, INSTALL GARAGE DOORS	S	C	6	N	N	3		7,342	7,342	7,342	0	6/10/2018	C		6/30/2018
4400002624	WASTE MANAGEMENT LLC 220 KENNETH DR SUITE 500 ROCHESTER, NY 14623 US	RUBBISH REMOVAL AND RECYCLING	S	B	7	N	N	1		15,200	4,705	4,705	10,495	6/10/2018	C		12/31/2018
4400002635	CS BUSINESS SYSTEMS INC 1236 MAIN ST BUFFALO, NY 14209-0069 US	HITACHI EQUIPMENT SOFTWARE AND SUPPORT	E	B	7	N	04	1		140,998	140,998	140,998	0	6/12/2018	O	6/11/2019	
4400002644	DELL MARKETING LP 850 ASBURY DR BUFFALO GROVE, IL 60089-4557 US	MICROSOFT LICENSING PRODUCTS CANAL	E	B	7	N	N	1		67,244	22,024	22,024	45,220	7/1/2018	O	6/30/2021	
4400002654	ADMAR SUPPLY CO INC 878 ALBANY SHAKER RD LATHAM, NY 12110-1458 US	SKYTRAK RENTAL	E	B	7	N	N	1		6,450	6,450	6,450	0	6/14/2018	C		9/30/2018

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4400002657	BEYER OF MORRISTOWN LLC 200 RIDGEDALE AVE MORRISTOWN, NJ 07960-4089 US	RAM TRADESMAN	E	B	7	F	N	5		54,807	0	0	54,807	6/14/2018	C		10/30/2018
4400002688	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	RAM 3500	E	B	7	N	N	1		103,981	0	0	103,981	6/20/2018	C		11/30/2018
4400002689	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	RAN CAB	E	B	7	N	N	1		53,451	0	0	53,451	6/20/2018	C		11/30/2018
4400002690	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	RAM 5500	E	B	7	N	N	1		122,578	0	0	122,578	6/20/2018	C		11/30/2018
4400002697	DOUGLAS SALES & PROMOTIONS CORP DOUGLAS INDUSTRIAL CO 811 10TH ST WATERVLIET, NY 12189-3133 US	MISCELLANEOUS	E	M	5	N	02	1		6,325	5,914	5,914	411	6/21/2018	C		12/31/2018
4400002701	DHI WATER AND ENVIRONMENT 141 UNION BLVD STE 250 LAKEWOOD, CO 80228-2206 US	MAINTENANCE - MIKE OPERATIONS SOFTWARE	S	1	8	N	N	1		51,222	51,222	51,222	0	7/1/2018	O	6/30/2019	
4400002708	ALL-LIFTS INC 27-39 THATCHER ST ALBANY, NY 12207-3012 US	STAINLESS STEEL WIRE ROPE	E	B	5	N	01	3		6,120	6,120	6,120	0	6/25/2018	C		7/30/2018
4400002711	DEERE & COMPANY AG & TURF CBD & GOVERNMENT SALES 2000 JOHN DEERE RUN CARY, NC 27513-2789 US	LAWN MOWERS TRACTORS	E	B	5	N	N	1		19,965	19,965	19,965	0	6/26/2018	C		7/31/2018
4400002715	FERRELLGAS LP 5859 STATE RTE 31 VERONA, NY 13478-3713 US	LP GAS	E	B	7	N	N	1		10,000	0	0	10,000	7/1/2018	O	6/30/2022	
4400002733	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	RAM TRADESMAN	E	B	7	N	N	1		42,182	0	0	42,182	6/28/2018	C		12/31/2018
4400002734	ROBERT GREEN AUTO & TRUCK INC ROBERT GREEN TRUCK DIVISION INC PO BOX 8002 ROCK HILL, NY 12775 US	RAM 3500	E	B	7	N	N	1		68,657	0	0	68,657	6/28/2018	C		9/30/2018
4400002735	TRACEY ROAD EQUIP INC 6803 MANLIUS CENTER RD EAST SYRACUSE, NY 13057 US	TRAILERS	E	B	5	N	N	1		21,424	21,424	21,424	0	6/28/2018	C		10/30/2018

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4400002741	HP INC 1501 PAGE MILL RD PALO ALTO, CA 94304-1126 US	X360	E	B	5	F	N	1		8,587	8,587	8,587	0	6/29/2018	C		9/18/2018
4400002742	MAIN MOTORCAR HOWELL & PIERSON INC 224 W MAIN ST JOHNSTOWN, NY 12095 US	RAM PROMASTER	E	B	5	N	N	4		30,177	0	0	30,177	6/29/2018	C		10/30/2018
4400002750	DONJON MARINE CO INC 100 CENTRAL AVE HILLSIDE, NJ 07205-2306 US	REEF PROJECT FOR REMEDIATION, TRANSPORTATION, AND SCUTTLING OF OBSOLETE VESSELS	A	B	8	F	N	3		2,383,583	2,371,583	2,371,583	12,000	11/1/2018	O	1/31/2019	
4400002753	DEERE & COMPANY AG & TURF CBD & GOVERNMENT SALES 2000 JOHN DEERE RUN CARY, NC 27513-2789 US	ZERO TURN MOWERS	E	B	5	N	N	1		28,327	28,327	28,327	0	7/2/2018	C		7/31/2018
4400002755	STEPHENSON EQUIPMENT INC 6018 DROTT DR EAST SYRACUSE, NY 13057-2998 US	GROVE SHUTTLELIFT	E	B		N	N	1		119,500	119,500	119,500	0	7/2/2018	C		8/30/2018
4400002776	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	CANAL CORPORATION REEF PROJECT	S	B	8	N	01	2		115,725	115,725	115,725	0	7/11/2018	C		7/23/2018
4400002783	WASTE MANAGEMENT LLC 1661 MOUNT READ BLVD ROCHESTER, NY 14606 US	RUBBISH REMOVAL	S	B	7	N	N	1		10,000	5,993	5,993	4,007	7/12/2018	O	7/1/2019	
4400002785	WASTE MANAGEMENT LLC 1661 MOUNT READ BLVD ROCHESTER, NY 14606 US	WASTE REMOVAL	E	B	7	N	N	1		8,999	5,042	5,042	3,957	7/12/2018	O	12/31/2019	
4400002794	WOODS CRW CORP 751 COUNTY RTE 37 CENTRAL SQUARE, NY 13036 US	BOOM CRANE	E	2	8	N	N	1		554,467	554,467	554,467	0	7/16/2018	C		8/15/2018
4400002795	ABELE TRACTOR & EQUIPMENT CO INC 72 EVERETT RD ALBANY, NY 12205 US	DOZER RENTAL	E	B	5	N	N	1		16,700	16,200	16,200	500	7/18/2018	C		8/18/2018
4400002796	GENESEE VALLEY MOTORS 1695 INTERSTATE DR AVON, NY 14414-9540 US	3 TRADESMAN QUAD CABS	E	B	7	N	N	3		111,634	111,634	111,634	0	7/16/2018	C		10/29/2018
4400002797	ATLANTIC FLUID POWER INC ATLANTIC HYDRAULIC SYSTEMS INC 90 PRECISION DR SHIRLEY, NY 11967-4702 US	HYDRAULIC COMPONENTS	E	B	8	N	N	3		361,856	361,856	361,856	0	7/17/2018	C		10/31/2018
4400002803	CAPPELLINO CHEVROLET INC 9000 BOSTON STATE RD BOSTON, NY 14025 US	IMPALA PURCHASE	E	B	5	N	N	3		21,377	21,377	21,377	0	7/16/2018	C		12/31/2018
4400002817	CALLANAN INDUSTRIES INC PO BOX 15097 ALBANY, NY 12212-5097 US	AGGREGATES CRUSHER RUN	E	B	7	N	N	1		10,000	0	0	10,000	7/17/2018	O	7/16/2019	
4400002818	HANSON AGGREGATES NEW YORK LLC 2049 HONEOYE FALLS #6 RD HONEOYE FALLS, NY 14472 US	FINE AND COARSE AGGREGATES	E	B	7	N	N	1		10,000	0	0	10,000	7/17/2018	O	7/16/2019	

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4400002821	ANDERSON EQUIPMENT CO 6317 THOMPSON RD SYRACUSE, NY 13206-1407 US	REPAIR WORK	S	C	6	N	N	3		10,182	10,182	10,182	0	7/20/2018	C		10/31/2018
4400002832	ABELE TRACTOR & EQUIPMENT CO INC 72 EVERETT RD ALBANY, NY 12205 US	DOZER RENTAL	E	B	7	N	N	1		19,200	17,935	17,935	1,265	7/25/2018	C		8/24/2018
4400002835	STRATEGIC RESPONSE INITIATIVES LLC 44 DALLIBA AVE STE 204 WATERVLIET, NY 12189-4017 US	GREENLEE PULLER	E	B	5	N	02	1		13,022	13,022	13,022	0	7/25/2018	C		8/31/2018
4400002842	PAVILION DRAINAGE SUPPLY CO INC 6630 ELLICOTT STREET RD PAVILION, NY 14525-9603 US	CANALS: REMOVAL AND REPLACEMENT OF GUIDERAIL	S	M	8	N	04	1		137,154	137,154	137,154	0	7/26/2018	C		8/31/2018
4400002846	WALTER S PRATT & SONS INC 317 COLUMBIA ST - PO BOX 170 RENSSELAER, NY 12144-2920 US	USCG REQUIRED FIRE EQUIPMENT	E	B	5	N	01	3		6,104	6,104	6,104	0	7/26/2018	C		7/26/2018
4400002856	BLUMBERG MACHINERY COMPANY 2101 WAUKEGAN RD STE 305 BANNOCKBURN, IL 60015-1836 US	LATHE	E	B	8	N	N	3		100,990	100,990	100,990	0	7/27/2018	C		8/30/2018
4400002858	COUNTY WASTE & RECYCLING SERVICE IN PO BOX 11760 NEWARK, NJ 07101-4760 US	WASTE PICKUP FOR FONDA	S	B	7	N	N	1		10,000	0	0	10,000	7/31/2018	O	6/30/2019	
4400002865	CLINTON TRACTOR & IMPLEMENT CO PO BOX 262 CLINTON, NY 13323 US	MOWER PARTS	E	B	5	N	N	1		27,834	0	0	27,834	8/1/2018	C		8/31/2018
4400002868	COLD SPRING CONSTRUCTION CO 43 JACKSON ST - PO BOX 358 AKRON, NY 14001-1349 US	EAST GUARD LOCK REHABILITATION	C	B		N	N	5		5,955,116	304,206	304,206	5,650,910	8/29/2018	O	11/28/2019	
4400002869	FIVE STAR EQUIPMENT INC 6500 E TAFT RD EAST SYRACUSE, NY 13057 US	TRACK REPAIRS	E	2	5	N	N	1		10,243	10,243	10,243	0	8/2/2018	C		8/31/2018
4400002870	DIVAL SAFETY EQUIPMENT INC 1721 NIAGARA ST BUFFALO, NY 14207-3108 US	2 DAY OSHA TRAINING	S	B	6	N	N	3		13,750	0	0	13,750	8/2/2018	O	8/1/2019	
4400002871	CARDIAC LIFE PRODUCTS INC PO BOX 25755 ROCHESTER, NY 14625-0755 US	AED MAINTENANCE AND SERVICE	S	B	5	N	03	1		11,849	11,849	11,849	0	8/6/2018	C		12/31/2018
4400002874	HARBORMASTER MARINE INC 8531 RONDA DR PO BOX 87157 CANTON, MI 48187 US	MARINE PROPELLER HUB	E	2	5	F	N	1	*	7,052	7,052	7,052	0	8/3/2018	C		8/31/2018
4400002877	MOHAWK VALLEY MATERIALS INC 9788 RIVER RD MARCY, NY 13403-2049 US	CANALS: WOODY DEBRIS WASTE MANAGEMENT IN THE EASTERN CANAL AREA	C	M	5	N	03	1		26,787	26,787	26,787	0	8/22/2018	C		9/14/2018
4400002882	FIVE STAR EQUIPMENT INC 6500 E TAFT RD EAST SYRACUSE, NY 13057 US	REPAIR PARTS	E	2	5	N	N	1		16,170	16,170	16,170	0	8/6/2018	C		9/30/2018

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4400002883	DRONE NERDS INC 320 NE 1ST AVE HALLANDALE, FL 33009 US	DRONES	E	B	5	F	N	3		22,719	22,719	22,719	0	8/6/2018	C		10/30/2018
4400002886	COLD SPRING CONSTRUCTION CO 43 JACKSON ST - PO BOX 358 AKRON, NY 14001-1349 US	ALBION WASTE WEIR REHABILITATION	C	B		N	N	4		1,460,432	136,200	136,200	1,324,232	8/21/2018	O	7/31/2019	
4400002887	MAIN MOTORCAR HOWELL & PIERSON INC 224 W MAIN ST JOHNSTOWN, NY 12095 US	DURANGOS	E	B	7	N	N	4		55,738	0	0	55,738	8/7/2018	C		12/31/2018
4400002889	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		10,000	4,276	4,276	5,724	8/31/2018	O	8/30/2020	
4400002890	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		10,000	0	0	10,000	8/31/2018	O	8/30/2020	
4400002891	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		10,000	0	0	10,000	8/31/2018	O	8/30/2020	
4400002892	MIRABITO FUEL GROUP 10 CARBON ST ONEONTA, NY 13820 US	FUEL	E	B	7	N	N	1		10,000	700	700	9,300	8/31/2018	O	8/30/2020	
4400002893	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		10,000	0	0	10,000	8/31/2018	O	8/30/2020	
4400002894	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		10,000	0	0	10,000	8/31/2018	O	8/30/2020	
4400002900	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		10,000	0	0	10,000	8/31/2018	O	8/30/2022	
4400002901	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		10,000	0	0	10,000	8/31/2018	O	8/30/2022	
4400002905	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		10,000	0	0	10,000	8/31/2018	O	8/30/2022	
4400002906	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		10,000	736	736	9,264	8/31/2018	O	8/30/2022	
4400002907	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		10,000	0	0	10,000	8/31/2018	O	8/30/2022	
4400002908	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		40,000	2,882	2,882	37,118	8/31/2018	O	8/30/2022	

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4400002909	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 1870 WINTON RD S - STE 200 ROCHESTER, NY 14618-3960 US	FUEL	E	B	7	N	N	1		20,000	4,554	4,554	15,446	8/31/2018	O	8/30/2022	
4400002922	ROSICK WELL DRILLING LLC 1175 FARLEY RD HUDSON FALLS, NY 12839-4307 US	INSTALLATION OF A NEW WATER WELL AT C-9 LOCATION IN FORT ANN WASHINGTON COUNTY	C	B	5	N	N	1		15,850	0	0	15,850	8/9/2018	O	8/8/2019	
4400002929	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		20,000	0	0	20,000	8/31/2018	O	8/30/2020	
4400002930	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		20,000	0	0	20,000	8/31/2018	O	8/30/2020	
4400002931	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		20,000	0	0	20,000	8/31/2018	O	8/30/2020	
4400002935	MODERN DISPOSAL SERVICES INC PO BOX 209 MODEL CITY, NY 14107-0209 US	RUBBISH REMOVAL	S	B	7	N	N	1		5,000	2,545	2,545	2,455	8/13/2018	O	8/12/2019	
4400002939	VANTAGE EQUIPMENT LLC 5985 COURT STREET RD SYRACUSE, NY 13206-1707 US	EQUIPMENT RENTAL	E	B	7	N	N	1		17,000	17,000	17,000	0	8/14/2018	C		11/30/2018
4400002946	DEERE & COMPANY AG & TURF CBD & GOVERNMENT SALES 2000 JOHN DEERE RUN CARY, NC 27513-2789 US	TRACK MOWER	E	B	7	N	N	1		9,982	9,982	9,982	0	8/14/2018	C		11/30/2018
4400002954	EMPIRE CRANE CO LLC 7021 PERFORMANCE DR NORTH SYRACUSE, NY 13212 US	CRANE RENTAL	E	B	5	N	N	3		14,700	14,700	14,700	0	8/1/2018	C		11/30/2018
4400002955	SENECA COUNTY SHERIFF 6150 STATE RTE 96 ROMULUS, NY 14541-9552 US	MARINE PATROL	S	B	7	N	N	10		25,000	25,000	25,000	0	8/15/2018	C		8/31/2018
4400002959	WELLS COMMUNICATION SERVICE INC 221 N GREENBUSH RD TROY, NY 12180-8512 US	RADIO EQUIPMENT	E	B	5	N	N	3		6,010	0	0	6,010	8/16/2018	C		9/30/2018
4400002965	VANTAGE EQUIPMENT LLC 5985 COURT STREET RD SYRACUSE, NY 13206-1707 US	RENTALS	E	B	5	N	N	1		17,000	17,000	17,000	0	8/17/2018	C		8/31/2018
4400002968	DONJON MARINE CO INC 100 CENTRAL AVE HILLSIDE, NJ 07205-2306 US	CANAL REEFING PHASE II	S	B		N	N	2		2,551,975	2,551,975	2,551,975	0	8/22/2018	O	3/31/2019	
4400002972	ERIE COUNTY SHERIFF'S OFFICE 10 DELAWARE AVE BUFFALO, NY 14202 US	MARINE PATROL	S	B	9	N	N	10		40,000	0	0	40,000	8/28/2018	O	3/31/2019	
4400002975	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		45,000	0	0	45,000	8/31/2018	O	8/27/2020	

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4400002978	MAIN BROTHERS OIL CO INC MAIN - CARE ENERGY 1 BOOTH LANE PO BOX 11029 ALBANY, NY 12211 US	FUEL	E	B	7	N	01	1		25,000	0	0	25,000	8/31/2018	O	8/27/2020	
4400002989	J M TREE SERVICE INC 3567 SWEDEN WALKER RD BROCKPORT, NY 14420-9319 US	TREE REMOVAL FOR PITTSFORD CANAL LOCATION	S	B	6	N	N	3		12,000	0	0	12,000	9/5/2018	O	1/2/2019	
4400002997	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		25,000	0	0	25,000	8/31/2018	O	8/27/2020	
4400002998	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		45,000	8,206	8,206	36,794	8/30/2018	O	8/27/2020	
4400002999	HP INC 1501 PAGE MILL RD PALO ALTO, CA 94304-1126 US	LAPTOPS	H	B	7	N	N	1		17,175	17,175	17,175	0	9/6/2018	C		10/30/2018
4400003001	ABS AMERICAS DBA FOR AMERICAN BUREAU OF SHIPPING 1701 CITY PLAZA DR SPRING, TX 77389-1831 US	TONNAGE MEASUREMENT SERVICES FOR THE VESSEL ERIE GRAND	S	B	6	F	N	1		10,000	0	0	10,000	9/6/2018	O	1/29/2019	
4400003002	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		30,000	15,055	15,055	14,945	8/30/2018	O	8/27/2020	
4400003003	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		30,000	6,429	6,429	23,571	8/30/2018	O	8/27/2020	
4400003004	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		30,000	0	0	30,000	8/30/2018	O	8/27/2020	
4400003005	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		30,000	0	0	30,000	8/30/2018	O	8/27/2020	
4400003006	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		75,000	21,489	21,489	53,511	8/30/2018	O	8/27/2020	
4400003007	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		30,000	4,320	4,320	25,680	8/30/2018	O	8/27/2020	
4400003008	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		50,000	0	0	50,000	8/30/2018	O	8/27/2020	
4400003010	BUELL FUEL LLC 2676 STATE STE 12B DEANSBORO, NY 13328-1128 US	FUEL	E	B	7	N	N	1		20,000	0	0	20,000	8/30/2018	O	8/27/2020	
4400003011	SENECA STONE CORPORATION 2747 CANOGA RD SENECA FALLS, NY 13148-9523 US	PAVING	C	B	7	N	N	1		69,347	0	0	69,347	9/6/2018	O	9/5/2019	
4400003012	MIRABITO FUEL GROUP 10 CARBON ST ONEONTA, NY 13820 US	FUEL	E	B	7	N	N	1		25,000	0	0	25,000	8/30/2018	O	8/27/2020	

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4400003013	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		25,000	0	0	25,000	8/30/2018	O	8/27/2020	
4400003014	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		20,000	0	0	20,000	8/30/2018	O	8/27/2020	
4400003015	KURK FUEL OIL CO DBA FOR GOETZ ENERGY CORP PO BOX A BUFFALO, NY 14217-0305 US	FUEL	E	B	7	N	01	1		15,000	0	0	15,000	8/30/2018	O	8/27/2020	
4400003016	SUPERIOR PLUS ENERGY SERVICES INC DBA GRIFFITH ENERGY 760 BROOKS AVE ROCHESTER, NY 14619 US	FUEL	E	B	7	N	N	1		20,000	0	0	20,000	8/30/2018	O	8/27/2020	
4400003017	KURK FUEL OIL CO DBA FOR GOETZ ENERGY CORP PO BOX A BUFFALO, NY 14217-0305 US	FUEL	E	B	7	N	01	1		20,000	2,349	2,349	17,651	8/30/2018	O	8/27/2020	
4400003034	EMPIRE CRANE CO LLC 7021 PERFORMANCE DR NORTH SYRACUSE, NY 13212 US	CRANE RENTAL	E	B	5	N	N	2		29,700	9,900	9,900	19,800	11/1/2018	O	4/30/2019	
4400003050	MOHAWK VALLEY MATERIALS INC 9788 RIVER RD MARCY, NY 13403-2049 US	REMOVAL OF TREES THAT POSES A HAZARD TO THE PUBLIC	S	B	5	N	03	1		36,000	36,000	36,000	0	9/13/2018	O	1/18/2019	
4400003062	PULVER ROOFING INC 1418 ERIE STREET UTICA, NY 13502 US	UTICA SHOP SHINGLE OVERLAY	S	M	8	N	03	1		74,000	74,000	74,000	0	9/18/2018	C		10/31/2018
4400003063	AMSEC ENGINEERING OF NEW YORK PC DBA AENY 112 W 34TH ST FL 18 NEW YORK, NY 10120-0001 US	SURVEY AND ASSESSMENT OF THE TUG URGER VESSEL	P	B	9	N	N	1		81,153	36,434	36,434	44,719	9/22/2018	O	9/21/2019	
4400003064	MIDLAKES HIREBOATS LTD 11 JORDAN ST SKANEATELES, NY 13152 US	EXHIBIT FOR NYS FAIR AGREEMENT	E	1	8	N	N	1		10,000	10,000	10,000	0	9/13/2018	C		9/13/2018
4400003067	ADMAR SUPPLY CO INC 878 ALBANY SHAKER RD LATHAM, NY 12110-1458 US	BRUSH CUTTER	E	B	5	N	N	3		6,080	6,080	6,080	0	9/17/2018	C		10/1/2018
4400003077	COUNTY OF MADISON 138 N COURT ST PO BOX 665 WAMPSVILLE, NY 13163 US	MARINE PATROL	S	C	6	N	N	1		34,463	0	0	34,463	9/18/2018	O	3/31/2019	
4400003078	MONROE COUNTY DEPT OF ENVIRONMENTAL SERVICES 50 WEST MAIN ST - STE 7100 ROCHESTER, NY 14614 US	MARINE PATROL	S	C	6	N	N	1		39,424	0	0	39,424	9/18/2018	O	3/31/2019	

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4400003079	PRECISION PROPELLER REPAIR PROPELLER & POWER TOOL SERVICE CTR 78 BRIDGE ST NEWBURGH, NY 12550 US	PROPELLER TUG ROOSEVELT	E	2	5	N	N	1		14,663	14,663	14,663	0	9/19/2018	C		9/25/2018
4400003083	COUNTY OF NIAGARA NIAGARA COUNTY COURTHOUSE 175 HAWLE LOCKPORT, NY 14094 US	MARINE PATROL	S	C	9	N	N	1		40,000	0	0	40,000	9/19/2018	O	3/31/2019	
4400003084	COUNTY OF ONEIDA 6065 JUDD RD ORISKANY, NY 13424 US	MARINE PATROL	S	C	9	N	N	1		40,000	0	0	40,000	9/19/2018	O	3/31/2019	
4400003085	Y S I INC ATTN: ORDER ENTRY 9843 18TH ST N STE 1200 ST PETERSBURG, FL 33716-4208 US	XYLEM WATER GAGING EQ	E	2	8	F	N	1		133,166	0	0	133,166	9/20/2018	O	9/19/2019	
4400003103	BEDFORD BLACKTOP LLC 7361 WHEELER RD LOCKPORT, NY 14094-9418 US	PAVING	C	C	5	N	N	3		42,000	42,000	42,000	0	9/21/2018	C		10/31/2018
4400003106	MARCY EXCAVATION SERVICES LLC 5835 ROUTE 5 HERKIMER, NY 13350 US	DREDGE SPOIL REMOVAL	S	B		N	N	4		799,477	794,957	794,957	4,520	9/25/2018	C		12/31/2018
4400003107	ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE INC 380 NEW YORK ST REDLANDS, CA 92373-8100 US	MAINTENANCE - ESRI SOFTWARE	S	B	7	F	N	1		15,545	15,545	15,545	0	9/25/2018	O	9/24/2019	
4400003108	LYRIS INC 401 CONGRESS AVE - STE 2650 AUSTIN, TX 78701-3708 US	AUREA LYRIS SUBSCRIPTION LICENSES	I	2	8	N	N	1		43,680	43,680	43,680	0	10/1/2018	O	9/30/2019	
4400003121	MAGNOLIA METAL CORPORATION PO BOX 34370 OMAHA, NE 68134 US	BRONZE PARTS	E	B	5	F	N	3		12,543	12,543	12,543	0	9/26/2018	C		10/29/2018
4400003131	SPRAGUE RESOURCES LP SPRAGUE OPERATING RESOURCES LLC 185 INTERNATIONAL DR PORTSMOUTH, NH 03801-6836 US	FUEL	E	B	7	N	N	1		20,000	2,457	2,457	17,543	8/31/2018	O	8/27/2020	
4400003132	SPRAGUE RESOURCES LP SPRAGUE OPERATING RESOURCES LLC 185 INTERNATIONAL DR PORTSMOUTH, NH 03801-6836 US	FUEL	E	B	7	N	N	1		30,000	0	0	30,000	8/31/2018	O	8/27/2020	
4400003154	CARVER CONSTRUCTION INC 494 WESTERN TPKE STE 1 ALTAMONT, NY 12009-2095 US	DREDGING OF SYRACUSE INNER HARBOR	C	B		N	N	2		10,344,450	0	0	10,344,450	10/26/2018	O	7/30/2019	
4400003157	SENTEC PROMOTIONS INC SUSIE SPECIALTIES 3960 HARLEM RD - STE 8 AMHERST, NY 14226-4706 US	BAGS FOR NYS FAIR	E	M	5	N	03	1		19,950	19,950	19,950	0	10/4/2018	C		10/4/2018

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4400003159	ONONDAGA COUNTY SHERIFF'S OFFICE 407 SOUTH STATE ST SYRACUSE, NY 13202 US	MARINE PATROL	S	C	9	N	N	11		40,000	0	0	40,000	10/5/2018	O	3/31/2019	
4400003160	ORLEANS COUNTY SHERIFF'S OFFICE 13925 STATE ROUTE 31 ALBION, NY 14411 US	MARINE PATROL	S	C	9	N	N	11		12,500	0	0	12,500	10/5/2018	O	3/31/2019	
4400003161	OSWEGO COUNTY SHERIFF'S OFFICE 39 CHURCHILL ROAD OSWEGO, NY 13126 US	MARINE PATROL	S	C	9	N	N	11		40,000	0	0	40,000	10/5/2018	O	3/31/2019	
4400003163	SENECA COUNTY SHERIFF 6150 STATE RTE 96 ROMULUS, NY 14541-9552 US	MARINE PATROL	S	C	9	N	N	11		40,000	0	0	40,000	10/5/2018	O	3/31/2019	
4400003170	MCQUADE & BANNIGAN INC 1300 STARK ST - PO BOX 476 UTICA, NY 13503 US	PLANER	E	B	5	N	N	1		7,974	7,974	7,974	0	10/8/2018	C		10/30/2018
4400003171	SOUTHWORTH-MILTON INC 294 AINSLEY DR SYRACUSE, NY 13205 US	CATERPILLAR PARTS	E	B	7	N	N	1	*	12,506	12,506	12,506	0	10/8/2018	C		10/30/2018
4400003180	J M POWER AGGREGATES INC 808 PROCTOR AVENUE OGDENSBURG, NY 13669 US	NATURAL CINDERS	E	M	5	N	01	1		6,637	6,637	6,637	0	10/10/2018	C		10/31/2018
4400003181	WOODS CRW CORP PO BOX 1099 795 MARSHALL AVE WILLISTON, VT 05495 US	CRANE RENTAL	E	M	8	N	N	3		78,750	0	0	78,750	11/1/2018	O	3/31/2019	
4400003185	ELLICOTT DREDGES LLC ELLICOTT DREDGE ENTERPRISES LLC, EL 1425 WICOMICO ST BALTIMORE, MD 21230 US	ELLICOTT OEM PARTS	E	1	5	F	N	1		7,433	7,433	7,433	0	10/10/2018	C		11/30/2018
4400003186	PUMP SERVICE AND SUPPLY OF TROY INC 1 REGATTA PLACE TROY, NY 12180-1229 US	PUMP SERVICE	E	B	5	N	01	1		6,000	3,000	3,000	3,000	11/1/2018	C		12/1/2018
4400003189	NICHOLS LONG & MOORE CONSTRUCTION CORP 770 RIVERVIEW BLVD STE 1 TONAWANDA, NY 14150-7880 US	REHABILITATION OF DIVE CULVERT 125	C	B		N	N	2		1,346,155	84,600	84,600	1,261,555	10/25/2018	O	6/30/2019	
4400003191	COUNTY OF SCHENECTADY 620 STATE ST SCHENECTADY, NY 12305 US	MARINE PATROL	S	C	9	N	N	11		40,000	0	0	40,000	10/10/2018	O	3/31/2019	
4400003195	COUNTY OF WASHINGTON 383 BROADWAY FORT EDWARD, NY 12828 US	MARINE PATROL	S	C	9	N	N	11		13,240	0	0	13,240	10/10/2018	O	3/31/2019	
4400003198	BETLEM SERVICE CORPORATION EMCOR SERVICES BETHLEM 704 CLINTON AVE S ROCHESTER, NY 14620-1499 US	STEAM BOILER REGASKET FOR ALBION LOCATION	S	C	9	N	N	3		9,584	9,584	9,584	0	10/11/2018	O	1/18/2019	
4400003210	BARRETT PAVING MATERIALS INC 4530 WETZEL RD LIVERPOOL, NY 13090-2517 US	PAVING	S	B	7	N	N	2		74,517	0	0	74,517	10/16/2018	O	10/15/2019	

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4400003218	PITTSBURGH FOUNDRY & MACHINE CO 20 36TH ST PITTSBURGH, PA 15201 US	STEEL CASTINGS	E	B	7	F	N	1		247,310	0	0	247,310	10/17/2018	O	1/7/2019	
4400003221	PULVER ROOFING INC 1418 ERIE STREET UTICA, NY 13502 US	FONDA ROOF REPLACEMENT	S	M	5	N	03	1		49,000	49,000	49,000	0	10/18/2018	C		10/31/2018
4400003222	A P PLUMBING LAURAMAR CORPORATION 1195 RIDGEWAY AVE ROCHESTER, NY 14615 US	OIL WATER SEPARATOR SYSTEM	E	B	5	N	N	2		16,200	0	0	16,200	10/18/2018	O	1/31/2019	
4400003224	GRANDESIGN ADVERTISTING FIRM INC PO BOX 840331 DALLAS, TX 75284-0331 US	NYS FAIR BOOTH DESIGN AND INSTALL	S	2	5	N	N	1		22,150	22,150	22,150	0	10/18/2018	C		10/18/2018
4400003229	MARSH USA INC 1166 AVENUE OF THE AMERICAS NEW YORK, NY 10036-2708 US	VALUATION OF CANAL ASSETS FOR INSURANCE PURPOSES	P	2		N	N	1		49,804	0	0	49,804	11/1/2018	O	2/28/2019	
4400003242	EMPIRE CRANE CO LLC 7021 PERFORMANCE DR NORTH SYRACUSE, NY 13212 US	CRANE RENTAL	E	B	5	N	N	3		36,000	9,000	9,000	27,000	11/1/2018	O	5/31/2019	
4400003248	A-VERDI COS LLC 14150 RTE 31 SAVANNAH, NY 13146 US	STORAGE CONTAINERS	E	B	5	N	N	2		5,600	2,800	2,800	2,800	10/23/2018	C		11/30/2018
4400003249	HUNT UNDERWATER SPECIALTIES 200 E MAIN ST PO BOX 832 WATERTOWN, NY 13601 US	LOCK E-19 DIVE WORK	S	B	5	N	N	3		16,571	0	0	16,571	10/24/2018	C		11/30/2018
4400003251	NORTHLAND TRAILERS LLC 9280 RIVER RD MARCY, NY 13403-2069 US	TRAILERS	E	B	5	N	N	3		9,990	0	0	9,990	10/25/2018	C		12/31/2018
4400003258	TIOGA CONSTRUCTION CO INC 333 GROS BLVD HERKIMER, NY 13350-1497 US	CRANE RENTAL	E	B	5	N	N	3		15,000	0	0	15,000	11/1/2018	O	4/30/2019	
4400003263	THE VISUAL BRAND LLC 24 WHITNEY ST WESTPORT, CT 06880-3735 US	NYS FAIR BOOTH UPDATES	E	2	5	N	N	1		7,303	7,303	7,303	0	10/26/2018	C		10/27/2018
4400003264	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	CANALS: LOCKPORT FLIGHT OF FIVE PROJECT	C	B		N	01	1		1,246,893	0	0	1,246,893	10/31/2018	O	8/30/2019	
4400003266	WOODS CRW CORP 751 COUNTY RTE 37 CENTRAL SQUARE, NY 13036 US	CRANE RENTAL	E	B	5	N	N	3		48,000	0	0	48,000	11/5/2018	O	3/5/2019	
4400003269	CRANE INDUSTRY SERVICES LLC 176 MURPHY CAMPUS BLVD WACO, GA 30182-2407 US	RIGGING CLASS CERTIFICATION	S	B	5	N	N	3		20,000	14,326	14,326	5,674	10/29/2018	C		10/29/2018
4400003280	SOUDER'S LLC SOUDERS PROMOTIONS 26 F CONGRESS ST NO 263 SARATOGA SPRINGS, NY 12866 US	MARKETING MATERIALS	E	B	5	N	N	1		5,500	0	0	5,500	10/30/2018	C		10/30/2018
4400003290	NORTHEAST CRANE SALES & SERVICE LLC 500 OHIO ST LOCKPORT, NY 14094-4222 US	CRANE REPAIR	S	2	5	N	N	1		5,335	5,335	5,335	0	10/31/2018	C		10/31/2018

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4400003304	MCFARLAND CASCADE HOLDINGS INC DBA MCFARLAND CASCADE 1400 IRON HORSE PARK NORTH BILLERICA, MA 01862 US	LUMBER	E	C	6	N	N	4		13,976	0	0	13,976	11/5/2018	O	11/4/2019	
4400003305	MCFARLAND CASCADE HOLDINGS INC DBA MCFARLAND CASCADE 1400 IRON HORSE PARK NORTH BILLERICA, MA 01862 US	LUMBER	E	C	6	N	N	4		13,530	0	0	13,530	11/5/2018	O	11/4/2019	
4400003320	WASTE MANAGEMENT LLC 2003 BLEEKER ST UTICA, NY 13501 US	WASTE MANAGEMENT FOR UTICA LOCATION	S	B	6	N	N	1		10,000	0	0	10,000	11/6/2018	O	11/5/2019	
4400003325	DONJON SHIPBUILDING & REPAIR LLC 220 EAST BAYFRONT PKWY ERIE, PA 16507-2402 US	CANAL HOPPER BARGE -2022	E	B		N	N	4		5,060,797	364,308	364,308	4,696,489	11/7/2018	O	1/31/2023	
4400003330	CARAHSOFT TECHNOLOGY CORP 1860 MICHAEL FARADY DR - STE 100 RESTON, VA 20190-5328 US	LICENSE AND MAINTENANCE - ACCELA SOFTWARE	I	B	7	F	N	1		67,077	0	0	67,077	11/8/2018	O	11/7/2019	
4400003332	SISCO MARINE LLC MARINE INLAND FABRICATIONS 1725 BUCHANAN ST PANAMA CITY, FL 32409-1482 US	CANAL PUSH BOATS -2022	E	B		N	N	4		3,465,808	415,000	415,000	3,050,808	11/7/2018	O	6/15/2019	
4400003352	KLEIN STEEL SERVICE INC 105 VANGUARD PKWY ROCHESTER, NY 14606-3100 US	STEEL BARS	E	B	5	N	N	3		14,123	0	0	14,123	11/14/2018	C		11/30/2018
4400003355	PARKS & TRAILS NEW YORK 29 ELK ST ALBANY, NY 12207 US	MISCELLANEOUS CANALWAYS COMMUNITY PROJECTS	S	2	3	N	N	1		116,956	116,956	116,956	0	11/15/2018	C		11/15/2018
4400003367	4950 GENESEE ST LLC C/O CIMINELLI REAL ESTATE CORP 350 ESSJAY RD - STE 101 WILLIAMSVILLE, NY 14221-8200 US	CONSTRUCTION OF A WALL	C	C	5	N	N	1		5,519	0	0	5,519	12/6/2018	O	12/5/2019	
4400003369	BURT CRANE & RIGGING DBA FOR SCHEIB CORP 5 VETERANS MEMORIAL DR GREEN ISLAND, NY 12183 US	CRANE RENTAL	E	M	5	N	03	1		41,001	0	0	41,001	11/20/2018	O	4/1/2019	
4400003397	NEW YORK STATE FENCE INC 858 MANITOU RD HILTON, NY 14468 US	CHAIN LINK FENCE	E	B	5	N	N	3		6,980	0	0	6,980	11/27/2018	O	1/31/2019	
4400003398	BURT CRANE & RIGGING DBA FOR SCHEIB CORP 5 VETERANS MEMORIAL DR GREEN ISLAND, NY 12183 US	PUSH BOAT REMOVAL - CRANE RENTAL	E	M	5	N	03	1		8,242	0	0	8,242	12/3/2018	C		12/31/2018
4400003409	BURT CRANE & RIGGING DBA FOR SCHEIB CORP 5 VETERANS MEMORIAL DR GREEN ISLAND, NY 12183 US	CRANE RENTAL	E	M	5	N	03	1		28,164	0	0	28,164	12/17/2018	C		12/21/2018

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4400003421	EARTHCAM INC 650 E CRESCENT AVE STE 100 UPPER SADDLE RIVER, NJ 07458-1843 US	CANALS - EARTHCAM - WEB CAM EQUIPMENT AND SERVICES	H	B	7	F	N	1		393,558	0	0	393,558	12/3/2018	O	12/2/2019	
4400003425	ELLICOTT DREDGES LLC ELLICOTT DREDGE ENTERPRISES LLC, EL 1425 WICOMICO ST BALTIMORE, MD 21230 US	ELLICOTT OEM PARTS	E	2	8	F	N	1		64,455	0	0	64,455	12/4/2018	C		12/31/2018
4400003441	DELL COMPUTER CORP ONE DELL WAY ROUND ROCK, TX 78682 US	DELL DATA PROTECTION (DDPE) SERVER	I	2	5	F	N	1		8,762	8,762	8,762	0	12/6/2018	O	12/5/2019	
4400003444	ISCO INDUSTRIES INC 100 WITHERSPOON ST 2WEST LOUISVILLE, KY 40202-1396 US	DREDGE PIPE AND COUPLERS FOR LYONS LOCATION	E	B		N	N	1		75,796	0	0	75,796	12/6/2018	O	4/1/2019	
4400003457	J M POWER AGGREGATES INC 808 PROCTOR AVENUE OGDENSBURG, NY 13669 US	NATURAL CINDERS - SS	E	M	5	N	01	1		43,400	43,400	43,400	0	12/11/2018	C		12/31/2018
4400003477	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		105,000	0	0	105,000	12/19/2018	O	12/18/2021	
4400003478	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		80,000	0	0	80,000	12/19/2018	O	12/18/2021	
4400003479	GLOBAL MONTELLO GROUP CORP 800 SOUTH ST WALTHAM, MA 02454 US	FUEL	E	B	7	N	N	1		70,000	0	0	70,000	12/19/2018	O	12/18/2021	
4400003480	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		160,000	0	0	160,000	12/19/2018	O	12/18/2021	
4400003483	OEM AIR COMPRESSOR CORP 4600 S KOLIN AVE CHICAGO, IL 60632-4414 US	AIR COMPRESSOR	E	C	5	F	N	4		8,234	0	0	8,234	12/14/2018	C		12/31/2018
4400003485	M S C INDUSTRIAL SUPPLY CO SID TOOL CO INC 6020 N BAILEY AVE SUITE 1 AMHERST, NY 14226 US	BED LATHE	E	C	5	N	N	1		13,474	0	0	13,474	12/14/2018	C		12/31/2018
4400003486	R M LILL INC 1263 RTE 9 CASTLETON, NY 12033 US	SANDBLASTING VALVES	E	C	5	N	N	3		29,900	0	0	29,900	12/14/2018	C		12/31/2018
4400003511	SEAWAY DIVING & SALVAGE CO INC 10 GUIDEBOARD RD WATERFORD, NY 12188-1913 US	SEAWAY DIVING - URGENT	E	C	5	N	N	2		6,992	0	0	6,992	12/18/2018	C		12/18/2018
4400003516	MIRABITO FUEL GROUP PO BOX 5306 BINGHAMTON, NY 13902-5306 US	FUEL	E	B	7	N	N	1		50,000	0	0	50,000	12/19/2018	O	12/18/2022	
4400003537	A+ TECH & SECURITY SOLUTIONS INC 1490 NORTH CLINTON AVENUE BAY SHORE, NY 11706-4049 US	EQUIPMENT FOR CANALS AT DRY DOCK RD	H	B	7	N	N	1		19,885	0	0	19,885	12/24/2018	O	12/23/2019	

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4400003545	MOLEY MAGNETICS INC 5202 COMMERCE DR LOCKPORT, NY 14094 US	REPAIR OF DC MOTOR FOR EXCHANGE ST LIFT BRIDGE IN ALBION	S	C	6	N	N	3		16,551	0	0	16,551	12/28/2018	O	6/1/2019	
4400003582	NOCO ENERGY CORP 2440 SHERIDAN DR - STE 202 TONAWANDA, NY 14150-9493 US	FUEL	E	B	7	N	N	1		90,000	0	0	90,000	12/19/2018	O	12/18/2021	
4400003583	SUNOCO LLC 3801 WEST CHESTER PIKE NEWTOWN SQUARE, PA 19073-2320 US	FUEL	E	B	7	N	N	1		45,000	0	0	45,000	12/19/2018	O	12/18/2021	
4400003584	SUNOCO LLC 3801 WEST CHESTER PIKE NEWTOWN SQUARE, PA 19073-2320 US	FUEL	E	B	7	N	N	1		190,000	0	0	190,000	12/19/2018	O	12/21/2021	
4400003585	SUNOCO LLC 3801 WEST CHESTER PIKE NEWTOWN SQUARE, PA 19073-2320 US	FUEL	E	B	7	N	N	1		65,000	0	0	65,000	12/19/2018	O	12/18/2021	
4400003683	HILLER SYSTEMS A DIVISON OF THE HILLER CO INC 1242 EXECUTIVE BLVD CHESAPEAKE, VA 23320-2807 US	DESIGN, FURNISH AND INSTALL AUTOMATIC FIRE DETECTION SYSTEMS AND GENERAL ALARM SYSTEMS ON VARIOUS TOWING VESSELS	A	B		N	N	2		117,384	0	0	117,384	8/21/2018	O	5/31/2019	
4700000000	AECOM USA INC 605 3RD AVE NEW YORK, NY 10158-0180 US	CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES	P	B		N	N	5		30,000	22,098	22,098	7,902	1/2/2017	O	12/31/2021	
4700000001	ARCADIS OF NEW YORK INC 44 S BROADWAY - FL 15 WHITE PLAINS, NY 10601-4411 US	CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES	P	B	8	N	N	18		850,000	434,280	423,363	415,720	1/2/2017	O	12/31/2021	
4700000002	GREENMAN-PEDERSEN INC 80 WOLF RD - STE 300 ALBANY, NY 12205-2608 US	CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES	P	B	8	N	N	18		1,500,000	366,168	366,168	1,133,832	1/2/2017	O	12/31/2021	
4700000003	MOTT MACDONALD NY INC 1400 BROADWAY - FL 30 NEW YORK, NY 10018-5330 US	CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES	P	B	8	N	N	18		4,000,000	942,842	895,764	3,057,158	1/2/2017	O	12/31/2021	
4700000004	RAVI ENGINEERING & LAND SURVEYING PC 2110 S CLINTON AVE STE 1 ROCHESTER, NY 14618 US	CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES	P	B	8	N	04	18		3,620,000	871,002	871,002	2,748,998	1/2/2017	O	12/31/2021	
4700000005	BERGMANN ASSOC ARCHITECTS ENGINEERS LANDSCAPE ARCHITECTS&SURVEYORS DPC 280 E BROAD ST - STE 200 ROCHESTER, NY 14604-1740 US	ENGINEERING SERVICES	P	C	8	N	N	18		2,899,321	655,930	540,685	2,243,391	1/2/2017	O	12/31/2021	
4700000006	CHA CONSULTING INC III WINNERS CIRCLE ALBANY, NY 12205-0269 US	ENGINEERING SERVICES	P	C	8	N	N	18		2,000,000	1,453,887	1,453,887	546,113	1/2/2017	O	12/31/2021	
4700000007	LABELLA ASSOCIATES D P C 300 STATE ST - STE 201 ROCHESTER, NY 14614-1019 US	ENGINEERING SERVICES	P	C	8	N	N	18		741,828	187,928	187,928	553,900	1/2/2017	O	12/31/2021	
4700000008	GILMAN CORPORATION PO BOX 68 GILMAN, CT 06336-0068 US	CUSTOM BUOYS	E	2	8	F	01	1		73,370	60,109	17,369	13,261	3/20/2017	C		12/31/2018

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4700000009	O'BRIEN & GERE ENGINEERS INC 333 W WASHINGTON ST - STE 610 SYRACUSE, NY 13202-9203 US	ENGINEERING SERVICES	P	C	8	N	N	18		1,942,500	464,904	464,904	1,477,596	1/2/2017	O	12/31/2021	
4700000010	PAUL C RIZZO ENGINEERING - NEW YORK PLLC 580 WHITE PLAINS RD - STE 4250 TARRYTOWN, NY 10591-5189 US	ENGINEERING SERVICES	P	C	8	N	N	18		3,000,000	2,106,236	1,183,135	893,764	1/2/2017	O	12/31/2021	
4700000012	NRC NY ENVIRONMENTAL SERVICES INC 6392 DEERE RD - STE 1 SYRACUSE, NY 13206-1323 US	EMERGENCY SPILL RESPONSE AND RECOVERY	P	B		N	N	3		1,500,000	18,836	18,836	1,481,164	12/12/2017	O	12/31/2020	
4700000013	CLEAN HARBORS ENVIRONMENTAL SERVICES INC 761 MIDDLE ST BRISTOL, CT 06010-7442 US	EMERGENCY SPILL RESPONSE AND RECOVERY	P	B		N	N	3		1,500,000	3,561	3,561	1,496,439	12/12/2017	O	12/31/2020	
4700000014	KLEINSCHMIDT ASSOCIATES PA PC PO BOX 650 PITTSFIELD, ME 04967-0650 US	GENERAL ENVIRONMENTAL SERVICES	P	B		F	N	29		1,600,000	786,957	786,957	813,043	12/14/2017	O	12/31/2020	
4700000015	LABELLA ASSOCIATES PC 300 STATE ST ROCHESTER, NY 14614 US	GENERAL ENVIRONMENTAL SERVICES	P	B		N	N	29		300,000	46,938	46,938	253,062	12/14/2017	O	12/31/2020	
4700000016	LOUIS BERGER & ASSOC PC 48 WALL ST - FL 16 NEW YORK, NY 10005-2927 US	GENERAL ENVIRONMENTAL SERVICES	P	B		N	N	29		200,000	0	0	200,000	12/14/2017	O	12/31/2020	
4700000017	LIRO ENGINEERS INC 3 AERIAL WAY SYOSSET, NY 11791-5501 US	GENERAL ENVIRONMENTAL SERVICES	P	B		N	N	29		600,000	0	0	600,000	12/14/2017	O	12/31/2020	
4700000018	BERGMANN ASSOC ARCHITECTS ENGINEERS LANDSCAPE ARCHITECTS&SURVEYORS DPC 280 E BROAD ST - STE 200 ROCHESTER, NY 14604-1740 US	GENERAL ENVIRONMENTAL SERVICES	P	B		N	N	29		300,000	56,842	56,842	243,158	12/14/2017	O	12/31/2020	
4700000019	LOUIS BERGER & ASSOC PC 48 WALL ST - FL 16 NEW YORK, NY 10005-2927 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		N	N	10		100,000	0	0	100,000	12/15/2017	O	12/14/2020	
4700000020	THE RESEARCH FOUNDATION FOR SUNY PO BOX 9 ALBANY, NY 12201-0009 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B	8	N	N	10		100,000	0	0	100,000	12/15/2017	O	12/14/2020	
4700000021	LANDMARK ARCHAEOLOGY INC 6242 HAWES RD ALTAMONT, NY 12009-4606 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		N	03	10		100,000	11,500	11,500	88,500	12/17/2017	O	12/14/2020	
4700000022	TIOGA CONSTRUCTION CO INC 333 GROS BLVD HERKIMER, NY 13350-1497 US	ON DEMAND REPAIR AND RECOVERY	C	B		N	N	3		4,181,663	3,732,284	3,732,284	449,379	1/19/2018	O	12/31/2019	
4700000023	TIOGA CONSTRUCTION CO INC 333 GROS BLVD HERKIMER, NY 13350-1497 US	ON DEMAND REPAIR AND RECOVERY	C	B		N	N	3		8,111,600	6,049,553	6,049,553	2,062,047	1/19/2018	O	12/31/2019	
4700000024	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	ON DEMAND REPAIR AND RECOVERY	C	B		N	01	1		2,878,800	1,500,501	1,500,501	1,378,299	1/19/2018	O	12/31/2019	

CONTRACT NUMBER	PROVIDER NAME	CONTRACT DESCRIPTION	TYPE	MOA	RNA	OPA	MWBE	BIDS	FRT	TOTAL CONTRACT AMOUNT	TOTAL EXPENDED TO DATE	AMOUNT EXPENDED 2018	CONTRACT BALANCE	DATE OF CONTRACT	O \ C	PROJ COMPLETE DATE	DATE CONTRACT COMPLETE
4700000025	RICHARD GRUBB AND ASSOCIATES INC 259 PROSPECT PLAINS RD - BLDG D CRANBURY, NJ 08512-3706 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		F	03	10		75,000	0	0	75,000	12/20/2017	O	12/14/2020	
4700000026	AECOM TECHNICAL SERVICES INC 257 W GENESEE ST - STE 400 BUFFALO, NY 14202-2657 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		N	N	10		75,000	0	0	75,000	12/30/2017	O	12/14/2020	
4700000027	LOUIS BERGER US INC 412 MOUNT KEMBLE AVE MORRISTOWN, NJ 07962-6666 US	GENERAL ENVIRONMENTAL SERVICES	P	B		N	N	29		3,000,000	134,394	134,394	2,865,606	1/17/2018	O	12/31/2020	
4700000028	LOUIS BERGER US INC 412 MOUNT KEMBLE AVE MORRISTOWN, NJ 07962-6666 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		N	N	10		175,000	0	0	175,000	1/16/2018	O	12/14/2020	
4700000029	HARTGEN ARCHEOLOGICAL ASSOCIATES INC 1744 WASHINGTON AVE EXT RENSSELAER, NY 12144-9510 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		N	N	10		110,000	2,000	2,000	108,000	10/2/2017	O	10/1/2022	
4700000030	ARCHAEOLOGY & HISTORIC RESOURCE SERVICES LLC 605 TWIN ARCH RD ROCK TAVERN, NY 12575-5324 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	C		N	N	10		100,000	0	0	100,000	1/22/2018	O	12/14/2020	
4700000031	ENVIRONMENTAL DESIGN & RESEARCH LNDSCPE ARCHIT ENGN & ENVIR SRV DPC 274 N GOODMAN ST ROCHESTER, NY 14607 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		N	03	10		75,000	0	0	75,000	2/4/2018	O	12/14/2020	
4700000032	GOMEZ AND SULLIVAN ENGINEERS DPC 288 GENESEE ST UTICA, NY 13502 US	FLOOD WARNING OPTIMIZATION SYSTEM CONSULTING SERVICES	P	2	8	N	N	1		600,000	244,443	244,443	355,557	3/1/2018	O	2/28/2019	
4700000033	TETRA TECH INC 6 CENTURY DR - STE 3 PARSIPPANY, NJ 07054-4611 US	CULTURAL RESOURCE PROFESSIONAL SERVICES	P	B		F	N	10		90,000	9,878	9,878	80,122	3/14/2018	O	12/14/2020	
4700000035	BERGMANN ASSOC ARCHITECTS ENGINEERS LANDSCAPE ARCHITECTS&SURVEYORS DPC 280 E BROAD ST - STE 200 ROCHESTER, NY 14604-1740 US	STATEWIDE DAM SAFETY ENGINEERING SERVICES	P	B		N	N	13		5,000,000	0	0	5,000,000	8/8/2018	O	8/7/2023	
4700000036	GRAINGER DBA FOR W W GRAINGER INC DEPT 807245360 PALATINE, IL 60038-0001 US	MRO INDUSTRIAL SUPPLIES STATEWIDE	E	B		F	N	4		5,000,000	0	0	5,000,000	10/8/2018	O	10/7/2021	
4700000037	TIOGA CONSTRUCTION CO INC 333 GROS BLVD HERKIMER, NY 13350-1497 US	STATEWIDE ON DEMAND MARINE VESSEL RECOVERY	C	B		N	N	3		8,869,500	0	0	8,869,500	11/20/2018	O	11/19/2023	
4700000038	TIOGA CONSTRUCTION CO INC 333 GROS BLVD HERKIMER, NY 13350-1497 US	STATEWIDE ON DEMAND INFRASTRUCTURE REPAIRS	C	B		N	N	6		18,721,000	0	0	18,721,000	11/20/2018	O	11/19/2023	

CONTRACT NUMBER	PROVIDER NAME	CONTRACT DESCRIPTION	TYPE	MOA	RNA	OPA	MWBE	BIDS	FRT	TOTAL CONTRACT AMOUNT	TOTAL EXPENDED TO DATE	AMOUNT EXPENDED 2018	CONTRACT BALANCE	DATE OF CONTRACT	O \ C	PROJ COMPLETE DATE	DATE CONTRACT COMPLETE
4700000039	D A COLLINS CONSTRUCTION CO INC 269 BALLARD RD WILTON, NY 12831-1357 US	STATEWIDE ON DEMAND INFRASTRUCTURE REPAIRS	C	B		N	N	6		18,512,500	0	0	18,512,500	11/15/2018	O	11/14/2023	
4700000040	HOHL INDUSTRIAL SERVICES INC 770 RIVERVIEW BLVD TONAWANDA, NY 14150-7880 US	STATEWIDE ON DEMAND INFRASTRUCTURE REPAIRS	C	B		N	01	6		20,119,900	0	0	20,119,900	11/15/2018	O	11/14/2023	
4700000042	FINGER LAKES INDUSTRIAL CONTRACTING CORP 3195 E BAYARD STREET EXT SENECA FALLS, NY 13148-9702 US	DIVING SERVICES	S	M	8	N	03	2		150,000	26,401	26,401	123,599	11/13/2018	O	11/12/2019	
C010238	JOSEPH M BRESS PO BOX 5680 WASHINGTON, DC 20016-1280 US	ASSISTANCE WITH NEGOTIATION OF LABOR AGREEMENTS	P	B		N	N	1		183,854	0	0	183,854	5/23/2012	C		8/31/2018
C010242	ROSE & KIERNAN INC 99 TROY RD EAST GREENBUSH, NY 12061-1027 US	HEALTH INSURANCE BROKER	P	B		N	N	1		390,000	0	0	390,000	1/1/2014	C		12/30/2018
C010243	ROSE & KIERNAN INC 99 TROY RD EAST GREENBUSH, NY 12061-1027 US	INSURANCE BROKER SERVICES	S	B		N	N	1		210,000	0	0	210,000	11/7/2013	C		11/5/2018
C010259	PROFESSIONAL HEALTH SERVICES INC 83 S EAGLE RD HAVERTOWN, PA 19083 US	ON SITE OCCUPATIONAL MEDICAL SERVICES	S	B		N	N	1		164,276	32,819	10,624	131,457	12/1/2013	C		10/31/2018
C010281	ENERGETIX CORPORATION 87 SAINT PAULS RD N HEMPSTEAD, NY 11550 US	EMPLOYEE DRUG AND ALCOHOL TESTING	S	B	1	N	N	1		133,501	8,343	3,681	125,158	1/1/2015	O	12/31/2019	
C010290	DAVIS VISION INC PO BOX 848376 DALLAS, TX 75284-8376 US	EMPLOYEE VISION CARE SERVICES	S	B		N	N	1		1,453,551	22,111	10,284	1,431,440	3/1/2015	O	2/28/2020	
C010306	BUFFALO NIAGARA RIVERKEEPER 721 MAIN ST BUFFALO, NY 14203 US	SCAJAQUADA CREEK PADDLESPORT LAUNCH	C	B		N	N	1		150,000	103,999	61,890	46,001	5/1/2015	C		12/30/2018
C010308	VILLAGE OF MONTOUR FALLS 408 WEST MAIN ST MONTOUR FALLS, NY 14865 US	CATHERINE TRAIL CONNECTOR PROJECT	C	B		N	N	1		30,000	0	0	30,000	12/12/2014	C		12/30/2018
C010311	FAIRPORT INDUSTRIAL DEVELOPMENT AGE 31 SOUTH MAIN ST FAIRPORT, NY 14450 US	THOMAS CREEK WETLAND PHASE II	C	B		N	N	1		50,000	0	0	50,000	12/12/2014	C		12/30/2018
C010318	N Y S OFFICE OF GENERAL SERVICES OGS - AGENCY 01050 EMPIRE STATE PLZ PO BOX 2166 ALBANY, NY 12220 US	MEDIA SERVICES	P	B		N	N	1		104,387	0	0	104,387	11/14/2014	O	11/13/2020	
C010324	WAGEWORKS INC 29 COUNTRY FAIR FL 2 TALLAHASSEE, FL 32303 US	EMPLOYEE FLEXIBLE SPENDING PROGRAM	S	B		N	N	1		33,498	1,888	1,062	31,610	8/1/2015	O	4/30/2021	

CONTRACT NUMBER	PROVIDER NAME	CONTRACT DESCRIPTION	TYPE	MOA	RNA	OPA	MWBE	BIDS	FRT	TOTAL CONTRACT AMOUNT	TOTAL EXPENDED TO DATE	AMOUNT EXPENDED 2018	CONTRACT BALANCE	DATE OF CONTRACT	O\C	PROJ COMPLETE DATE	DATE CONTRACT COMPLETE
C010343	ERIE CANALWAY HERITAGE FUND INC PO BOX 219 WATERFORD, NY 12188 US	COMMUNITY AND MARKETING SERVICES	S	B	7	N	N	1		205,000	202,290	50,000	2,710	1/1/2016	C		12/31/2018
C010351	TOWN OF HALFMOON 2A HALFMOON TOWN PLZ HALFMOON, NY 12065 US	CRESCENT PARK BOAT LAUNCH PROJECT	C	B		N	N	1		100,000	0	0	100,000	12/10/2015	C		12/30/2018
C010352	TOWN OF NISKAYUNA 1 NISKAYUNA CIRCLE NISKAYUNA, NY 12309 US	AQUEDUCT PARK ACCESS IMPROVEMENT PROJECT	C	B		N	N	1		150,000	0	0	150,000	12/10/2015	C		12/30/2018
C010353	VILLAGE OF PALMYRA 144 EAST MAIN ST PALMYRA, NY 14522-1018 US	PALMYRA CANAL TRAIL CONNECTOR AND TERMINAL WALL EXTENSION	C	B		N	N	1		124,000	0	0	124,000	12/10/2015	C		12/30/2018
C010354	VILLAGE OF GREEN ISLAND 20 CLINTON ST GREEN ISLAND, NY 12183 US	BLACK BRIDGE CONNECTOR TRAIL PROJECT	C	B		N	N	1		44,000	38,707	38,707	5,293	12/10/2015	C		12/30/2018
C010356	VILLAGE OF BROCKPORT 49 STATE ST BROCKPORT, NY 14420 US	BROCKPORT CANAL IMPROVEMENT PROJECT	C	B		N	N	1		75,000	0	0	75,000	12/10/2015	C		12/30/2018
C010357	MONTGOMERY COUNTY 9 PARK ST FONDA, NY 12068 US	BIKE TRAIL RESTORATION PROJECT	C	B		N	N	1		100,000	100,000	100,000	0	12/10/2015	C		12/30/2018
C010358	VILLAGE OF FONDA PO BOX 447 8 E MAIN ST FONDA, NY 12068-9999 US	VILLAGE OF FONDA CANALSIDE PARK IMPROVEMENTS PROJECT	C	B		N	N	1		30,000	0	0	30,000	12/10/2015	C		12/30/2018
C010359	VILLAGE OF FULTONVILLE 10 ERIE ST PO BOX 337 FULTONVILLE, NY 12072-7507 US	VILLAGE OF FULTONVILLE DOCK PHASE 2	C	B		N	N	1		50,000	0	0	50,000	1/31/2016	C		12/30/2018
C1175393	HANES SUPPLY INC 55 JAMES E CASEY DR BUFFALO, NY 14206-2361 US	COUNTERWEIGHT CABLES	E	B		N	N	1		93,595	93,595	93,595	0	10/18/2016	C		12/30/2018
D214181	BERGMANN ASSOCIATES INC BERGMA 200 FIRST FEDERAL PLZ 28 E MAIN ST ROCHESTER, NY 14614 US	STATEWIDE CANAL STRUCTURES DAM SAFETY INSPECTION	S	B		N	N	1		3,503,628	1,897,343	426,914	1,606,285	4/15/2013	C		4/12/2018
D214233	K C I ENGINEERING OF NEW YORK PC PO BOX 791479 BALTIMORE, MD 21279-1479 US	STEEL REPAIRS AND PAINTING OF TOWERS	C	B		N	N	1		934,000	412,892	34,081	521,108	1/1/2014	O	1/23/2019	
D214282	RAVI ENGINEERING & LAND SURVEYING PC 2110 S CLINTON AVE STE 1 ROCHESTER, NY 14618 US	TERM AGREEMENT FOR CONSTRUCTION INSPECTION SERVICES IN WESTERN NY	S	B		N	04	1		1,500,000	0	0	1,500,000	12/3/2013	C		3/30/2018
D214285	W S A GROUP PE-PC WILBUR SMITH ASSOCIATES 11 BRITISH AMERICAN BLVD SUITE 200 LATHAM, NY 12110 US	FORT HERKIMER CHURCH TO ERIE CANAL LOCK 18: CONSTRUCT CANALWAY TRAIL, HERKIMER COUNTY	C	B		N	N	1		2,000,000	134,910	20,330	1,865,090	1/2/2014	C		3/30/2018
D214295	GREENMAN-PEDERSEN INC 80 WOLF RD STE 300 ALBANY, NY 12205 US	CLEAR AND GRUB FORT EDWARD TO FORT ANN TRAIL	C	B		N	N	1		325,000	264,533	218,090	60,467	5/21/2014	C		10/26/2018

CONTRACT NUMBER	PROVIDER NAME	CONTRACT DESCRIPTION	TYPE	MOA	RNA	OPA	MWBE	BIDS	FRT	TOTAL CONTRACT AMOUNT	TOTAL EXPENDED TO DATE	AMOUNT EXPENDED 2018	CONTRACT BALANCE	DATE OF CONTRACT	O \ C	PROJ COMPLETE DATE	DATE CONTRACT COMPLETE
D214297	GANNETT FLEMING ENGINEERS & ARCHITE PO BOX 829160 PHILADELPHIA, PA 19182-9160 US	CURRENT ROOF REPLACEMENT CANAL SECTION 5 OFFICE AND SHOP LYSANDER	C	B		N	N	1		1,937,933	0	0	1,937,933	4/29/2014	C		6/5/2018
D214309	CHA CONSULTING INC PO BOX 5269 ALBANY, NY 12205-0269 US	CANALWAY TRAIL PART 2 ERIE AND NIAGARA COUNTIES 8 MILES	C	B		N	N	1		1,057,000	342,598	71,408	714,402	12/1/2014	O	12/31/2019	
D214354	U S DEPARTMENT OF THE INTERIOR PO BOX 71362 PHILADELPHIA, PA 19176-1362 US	CANAL FLOOD WARNING SYSTEM	S	B		N	N	1		2,218,656	939,020	385,855	1,279,636	3/1/2014	C		9/30/2018
D214370	TIOGA CONSTRUCTION CO INC 333 GROS BLVD HERKIMER, NY 13350-1497 US	ON DEMAND INFRASTRUCTURE REPAIRS TO CANAL FACILITIES AND MARINE VESSEL RECOVERY	C	B		N	N	1		1,651,034	1,147,565	39,740	503,469	12/26/2014	C		12/30/2018
D214395	POPLI ARCHITECTURE + ENGINEERING & LS DPC 555 PENBROOKE DR PENFIELD, NY 14526-2035 US	MAY'S POINT MOVABLE DAM 18 APRON REHABILITATION SENECA COUNTY	C	B		N	04	1		2,706,010	246,445	58,540	2,459,565	4/14/2015	C		6/29/2018
D214405	SHUMAKER CONSULTING ENGINEERING & L 143 COURT ST BINGHAMTON, NY 13901 US	STORMWATER PROGRAM	C	B		N	03	1		1,000,000	11,068	103	988,932	10/22/2015	O	10/21/2019	
D214406	AECOM USA INC AECOM TECHNOLOGY CORPORATION 1178 PAYSHERE CIRCLE CHICAGO, IL 60674 US	AMSTERDAM PEDESTRIAN BRIDGE MOHAWK - ERIE CANAL	C	B		N	N	1		1,361,211	2,050	0	1,359,161	7/6/2015	C		12/5/2018
D214420	RAVI ENGINEERING & LAND SURVEYING PC 2110 S CLINTON AVE STE 1 ROCHESTER, NY 14618 US	TERM AGREEMENT FOR CONSTRUCTION INSPECTION SERVICES IN THE BUFFALO DIVISION	S	B		N	04	1		1,500,000	221,888	2,862	1,278,112	7/16/2015	C		8/30/2018
D214440	GREENMAN-PEDERSEN INC 80 WOLF RD STE 300 ALBANY, NY 12205 US	BELOW WATER INSPECTION SERVICES	S	B		N	N	1		1,800,000	1,137,832	1,050,661	662,168	9/6/2016	O	9/8/2019	
D214441	COLLINS ENGINEERS INC 277 ALEXANDER ST - STE 307 ROCHESTER, NY 14607-1941 US	ABOVE WATER INSPECTION SERVICES	S	B		N	N	1		1,930,000	1,111,569	459,324	818,431	7/25/2016	O	7/24/2019	
D214464	ERDMAN ANTHONY AND ASSOCIATES INC 145 CULVER RD STE 200 ROCHESTER, NY 14620-1679 US	REPLACEMENT OF THE LYONS DRY DOCK MITER GATES	C	B		N	N	1		1,494,777	28,223	1,328	1,466,554	3/10/2016	O	3/29/2019	
D214500	T Y LIN INTERNATIONAL ENGINEERING A 255 EAST AVE ROCHESTER, NY 14604 US	DESIGN ENGINEERING SERVICES	S	B	8	N	N	1		3,000,000	127,789	127,789	2,872,211	3/1/2018	O	11/17/2020	
		CANALS TOTALS								252,476,765	71,954,636	58,729,038	180,522,129				

Total Number of Contracts	519	
Total Contract Value		$252,476,765
Total Expended to Date		$71,954,636
Total Expended in Report Year		$58,729,038
Status Summary	Count	Contract Value
Open Contracts	198	$210,178,116
Closed Contracts	321	$42,298,649
Method of Award Summary		
Competitive Bid	402	$236,013,346
Sole Source	23	$796,868
Single Source	30	$2,792,170
Competitive Search	49	$12,151,010
MWBE/SBE	15	$723,371
Commitment Type Summary		
Architectural and Engineering Services	2	$2,500,967
Construction	49	$154,281,209
Equipment / Goods / Commodities	307	$30,598,696
IT Hardware	5	$453,272
IT Software	6	$213,744
Legal Services	0	$0
Maintenance and Outage Services	0	$0
Personal Services	47	$39,200,121
IT Consulting and Development	0	$0
Other Non-Personal Services	103	$25,228,756
Contingent Workforce	0	$0

Title: Guidelines for the Disposal of Canal Corporation Personal Property

Document Type: Business Unit Policy

Revision Date: 12/1/18

Reviewer	Name	Title
This document has been reviewed by:	Allison Renstrom Shea Vincent P. Esposito, Jr.	Special Counsel Assistant General Counsel

Content Owner	Signature	Date
Name: Lisa Wright Title: Manager, Administrative Services		

Approver	Signature	Date
Name: John Canale Title: VP Procurement		

Approver	Signature	Date
Name: Robert Lurie Title: EVP & Chief Financial Officer		

Guidelines for the Disposal of Canal Corporation Personal Property

Note: Revision # should be listed in descending order starting with most recent version at the top

Revision Date	Revision #	Description/Modification	Revision Section (s)	Author
12/1/18	1	Added Definition of Discarded Property Added **Personal Property Discarded by the Corporation** **Revised Violations Section**	3 4.6 5	Kevin King Director Transactional Procurement
11/15/2018	0	Original Issue	N/A	Kevin King Director Transactional Procurement

1 PURPOSE AND SCOPE

This Policy for the disposal of Canal Corporation ("Corporation") Personal Property, ("Policy") which complies with Title 5-A, Article 9 of the Public Authorities Law, establishes the Corporation's Policy and instructions regarding the use, award, monitoring and reporting of the disposal of personal property. In addition, the Policy designates a Contracting Officer who is responsible for the Corporation's compliance with, and enforcement of, the Policy.

Powers and duties relating to the New York State Canal System, which were transferred to and merged with the New York Power Authority pursuant to Canal Law Article 1-A, may be exercised by the Authority directly or through the Corporation.

2 APPLICABILITY

This Policy applies to all New York State Canal Corporation employees, Initialisms (Acronyms) and Definitions

3 INITIALISMS (ACRONYMS) AND DEFINITIONS

Abandoned Motor Vehicles – a type of tangible Personal Property with special statutory and regulatory requirements for disposal and processing (see Section 5.2.A.).

Abandoned, Lost or Found Personal Property – Property that remains unclaimed after notification to an owner, if known, and/or after being held for the required holding periods as prescribed by law. This includes all lost or mislaid property found on Corporation property/premises, as well as property which is knowingly abandoned.

Authority – Power Authority of the State of New York

Contracting Officer – The Authority's Vice President - Strategic Supply Management or his/her designee

Corporation – The Canal Corporation

Discarded Property – Personal Property of the Corporation, or other personal property that has come into the Corporation's possession, that the Corporation has discarded, or designated to be discarded, as scrap or junk.

Disposals –The sale of Personal Property, the transfer of title or any beneficial interest in Personal Property in accordance with this Policy such as leases, and the exchange of Personal Property. Disposals do not include permits, licenses or temporary use documents that are otherwise revocable due to operational requirements or in the best interests of the Corporation.

Consistent with prior Board action, permits do not convey or transfer a beneficial interest in the Personal Property.

Fair Market Value – The estimated dollar amount that a willing buyer would pay to a willing seller for the Property in an arms-length transaction in the appropriate marketplace and under similar circumstances. Fair market value may be determined by consulting industry-recognized sources, contacting original suppliers, depreciation analysis, appraisals, fair market valuations by public auction or other methods of valuation generally accepted in the industry in which such Property is utilized, as may be approved by the Contracting Officer or authorized designee.

PAL – Public Authorities Law

Personal Property – Property, other than Real Property, owned by the Corporation, regardless of value, and any other interest in such property, to the extent that such interest may be conveyed to another person for any purpose, excluding an interest securing a loan or other financial obligation of another party. Property may include, but is not limited to, materials (Corporation warehouse controlled inventory and Corporation direct turnover materials), tools, equipment or vehicles.

Real Property – Real property, including land, tenements and inherited property owned by the Corporation, and any other interest in such real property, to the extent that such interest may be conveyed to another person or entity for any purpose, excluding an interest securing a loan or other financial obligation of another party.

Relative – is any person living in the same household as the Authority employee or any person who is a direct descendant of the Authority employee's grandparents or the spouse of such descendant, as referred to in Subsection 9.E.1 of these Guidelines. The term Relative may include, but is not limited to, the relationship of spouse, child, parent, sister, brother, grandparent, grandchild, aunt, uncle, cousin, niece, nephew, stepchild, stepparent, stepsister, stepbrother, mother-in-law, father-in-law, sister-in-law, brother-in-law, daughter-in-law or son-in-law.

Transactions – For purposes of this Policy, transactions shall include, but not be limited to, disposals and the issuance of permits, licenses and other temporary use documents for the use of Personal Property.

4 POLICY IMPLEMENTATION

4.1 General Principles

The Corporation shall maintain adequate inventory controls and accountability systems for all Personal Property under its control.

A. Personal Property that is 1) encroaching on real property under the jurisdiction of the Corporation; or 2) located on real property under the jurisdiction of the Corporation that is: (a) not authorized by the applicable permit, license or lease; or (b) left behind following the expiration, revocation or termination of a permit, license or lease; shall be handled in accordance with this Policy, the terms and conditions of the lease, license or permit regarding the removal of such property, and/or the Canal Law, if applicable.

B. The Corporation may dispose of any Personal Property not necessary for its corporate purposes in whatever timeframe that either the Contracting Officer or the Corporation Board deems appropriate.

C. The Corporation may authorize the use of Corporation Personal Property by an entity for any period or term using a temporary, revocable permit, license or other document that does not transfer a beneficial interest in the Personal Property. Such temporary, revocable use is not considered a Disposal for purposes of this Policy.

D. Personal Property shall not be disposed of by the Corporation for less than fair market value, except in limited circumstances as set forth in Paragraph E, sections 1, 2 and 3 of this Section. Fair Market Value may be determined through the use of appraisals, requests for proposals, the bid or auction process, or other means.

E. No asset owned, leased or otherwise in the control of the Corporation with a value in excess of $5,000 may be sold, leased, or otherwise alienated for less than its fair market value except if:

1. the transferee is a government or other public entity, and the terms and conditions of the transfer require that the ownership and use of the asset will remain with the government or any other public entity;
2. the purpose of the transfer is within the purpose, mission or governing statute of the Corporation; or
3. in the event the Corporation seeks to transfer an asset for less than its fair market value to other than a governmental entity, which disposal would not be consistent with the Corporation's mission, purpose or governing statutes, the Corporation shall provide written notification thereof to the governor, the speaker of the assembly, and the temporary president of the senate, and such proposed transfer shall be subject to denial by the governor, the senate, or the assembly. Denial by the governor shall take the form of a signed certification by the governor. Denial by either house of the legislature shall take the form of a resolution by such house. The governor and each house of the legislature shall take any such action within sixty days of receiving notification of such proposed transfer during the months of January through June, provided that if the legislature receives notification of a proposed transfer during the months of July through December, the legislature may take any such action within sixty days of January first of the following year. If no such resolution or certification is performed within sixty days of such notification of the proposed transfer to the governor, senate, and assembly, the Corporation may effectuate such transfer.

F. In the event a below fair market value asset transfer is proposed, the following information must be provided by the Manager, Administrative Services as a trustee item for the Corporation Board at the next scheduled Trustee meeting and the public:

1. a full description of the asset;
2. an appraisal of the fair market value of the asset and any other information establishing the fair market value sought by the Corporation Board;
3. a description of the purpose of the transfer, and a reasonable statement of the kind and amount of the benefit to the public resulting from the transfer, including but not limited to the kind, number, location, wages or salaries of jobs created or preserved as required by the transfer, the benefits, if any, to the communities in which the asset is situated as are required by the transfer;
4. a statement of the value to be received compared to the fair market value;
5. the names of any private parties participating in the transfer, and if different than the statement required by Subparagraph (4) of this Paragraph, a statement of the value to the private party; and
6. the names of any other private parties who have made an offer for such asset, the value offered, and the purpose for which the asset was sought to be used.

G. Before approving the disposal of any property for less than fair market value, the Corporation Board shall consider the information described in Paragraph F of this Section and make a written determination that there is no reasonable alternative to the proposed below market transfer that would achieve the same purpose of such transfer.

H. The Corporation must use a competitive process as required by the PAL and any related statutes, including public advertising for Disposals exceeding $15,000 in value, except in limited circumstances. In order to dispose of Personal Property by negotiation or public auction without public advertising, but subject to obtaining competition as is feasible under the circumstances, one of the following must be met:

1. the Personal Property involved has qualities separate from the utilitarian purpose of such property, such as artistic quality, antiquity, historical significance, rarity, or other quality of similar effect, that would tend to increase its value, or if the Personal Property is to be sold in such quantity that, if it were disposed of by public advertising, would adversely affect the state or local market for such property, and the estimated fair market value of such property and other satisfactory terms of disposal can be obtained by negotiation;
2. the fair market value of the property does not exceed $15,000;
3. bid prices after advertising are not reasonable, either as to all or some part of the Personal Property, or have not been independently arrived at in open competition;
4. the Disposal will be to the State or any political subdivision, and the estimated fair market value of the Personal Property and other satisfactory terms of disposal are obtained by negotiation;
5. under those circumstances permitted by Section 5.1 (Paragraphs E, F, and G) of this Policy; or
6. the action is otherwise authorized by law.

I. For Personal Property valued at over $15,000 disposed of by negotiation, an explanatory statement is required. Not less than 90 days in advance of the Disposal, an explanatory statement shall be prepared and distributed by the Contracting Officer in accordance with PAL § 2897, detailing the circumstances of the Disposal including, but not limited to, the proposed price.

J. The Corporation shall create a clear and comprehensive record for each Transaction that documents its compliance with this Policy. Such record shall be maintained in a manner and for a period consistent with the applicable document retention policy.

4.2 General Practices

A. Abandoned Motor Vehicles - The handling and disposal of Abandoned Motor Vehicles is statutorily covered under Vehicle and Traffic Law and not under this Policy.

B. Abandoned, Lost or Found Personal Property

Abandoned, Lost or Found Personal Property with a value over the statutory limits must, within ten days after the finding or acquisition by Corporation employees or the Corporation's related agents (for example, contractor), be turned over to the New York State Police for processing and forwarding to the Bureau of Office and Building Maintenance Services ("Office Services") at headquarters in Albany. Office Services will return the property to the owner, if known; if the owner of the property is not immediately known, then the property must be held until the statutory holding period has run. At that time, if the property has not been claimed by the true owner or someone with verifiable ownership rights, then Office Services shall return the property to the known independent finder. If the original finder was a Corporation employee or one of its related agents as defined above, ownership then vests in the Corporation and may be treated as other Corporation owned property.

C. Special Abandoned Personal Property

1. Personal Property purposely left behind on Corporation property after termination of a previously issued permit, license or lease shall be handled, removed or disposed of under the terms of the permit, license or lease, or if required, pursuant to the applicable provisions of the Canal Law governing encroachments.
2. Abandoned Personal Property originally issued by the Corporation such as unclaimed wages or benefits, or unclaimed consumer balances shall be held for the required holding times as prescribed by the Personal Property Law and Abandoned Property Law, at which time the property vests in the Corporation.
3. Other Personal Property such as unclaimed bonds, dividends, interest, securities, etc. owed to security holders shall be held for the required statutory periods by the Corporation's properly delegated trustees or other fiduciaries.

D. Surplus Personal Property

The Manager, Administrative Services or his or her designee will provide the Executive Deputy Director or his or her designee with information on all items of Personal Property declared surplus.

4.3 Disposal Process

The Manager, Administrative Services or his or her designee will prepare a list of all Personal Property to be disposed of and prepare an internal estimate of the value of such property.

A. The method of disposal shall be based on the following Personal Property values:

1. Personal Property valued at less than $1,000 may be sold or donated, or when having an estimated resale value less than the cost of handling and sale may be disposed of as scrap or junk. The provisions of Section 5.6 will apply to such property.
2. Solicitation via telephone, email, and/or direct mailings may be used where the estimated Fair Market Value of the Property to be disposed of does not exceed $15,000. All bids must be submitted in writing on the Corporation generated forms or an appropriate substitute and in the manner prescribed by this Policy and by the date and time included in the solicitation.
3. Personal Property valued in excess of $5,000 up to and including $15,000 may be negotiated or made by public auction without publicly advertising for bids when approved by the Contracting Officer or, where required, by the Board, such as in Section 5.1 (Paragraphs E and F).
4. Personal Property valued in excess of $15,000 shall be offered for sale by a formal competitive process that includes public advertising for bids unless one of the exceptions listed in Section 5.1.E is met. If such an exception exists, disposal may be by negotiation or public auction without public advertising, when approved by the Contracting Officer or, where required, by the Board, such as in Section 5.1.G.

Note: For Personal Property valued in excess of $15,000 disposed of by negotiation, an explanatory statement is required as described in Section 5.1.I.

B. When public advertising is required for disposals, the following steps must be taken pursuant to PAL § 2897:

1. The advertisement shall be made at such time prior to the disposal or contract, through such methods, and on such terms and conditions as shall permit full and free competition consistent with the value and nature of the Personal Property;
2. All bids shall be publicly disclosed at the time and place stated in the advertisement; and
3. The award shall be made with reasonable promptness by notice to the responsible bidder whose bid, in conformance with the solicitation, will be most advantageous to the Corporation, price and other factors considered, provided that any and all bids may be rejected when it is in the public interest to do so.

C. When property is sold by sealed bid, by public auction or by an electronic auction, sale prices are approved by the Manager, Administrative Services or his or her designee. If such person determines that property should be offered at an established or set price due to its unusual nature, or any other special conditions that would make competitive bidding impractical, Manager, Administrative Services or designee will recommend an acceptable price and a method of sale to the Contracting Officer for approval.

D. If the Manager, Administrative Services or designee determines that the best interests of the Corporation are served by selling at public auction, the Manager, Administrative Services) or designee shall supervise the auction and may reject any and all bids considered to be unacceptable.

E. Where permitted by law, Disposals may be performed by the Commissioner of General Services on behalf of the Corporation when the Corporation has entered into an agreement with the Commissioner of General Services pursuant to PAL and/or other applicable statutes.

4.4 Reports

The Corporation will annually develop and distribute reports regarding Personal Property having a Fair Market Value in excess of $5,000 that was disposed of during the reporting period, including the full description, price (if any) received and the name of the purchaser for all such Personal Property disposed of by the Corporation during such period as required by law. The report shall be delivered to the New York State Comptroller, the Director of the Budget, the Commissioner of General Services, the New York Legislature and the Authorities Budget Office.

4.5 Procurement of Surplus Personal Property by Employees

Corporation employees and relatives of such employees or third parties acting on behalf of such employees shall not have any personal interest in, or engage in, any activity, inclusive of bidding for the purchase of Canal Property that would create or appear to create a conflict with the proper discharge of their public duties and are prohibited from subsequently acquiring in any manner. It is important, even in the absence of any impropriety, that no appearance of impropriety is given. Therefore, pursuant to the Public Officers Law, all Corporation employees, their spouses and any children and stepchildren under age 18, stepparents, parent, sister, brother, grandparent, grandchild, aunt, uncle, cousin, nephew, niece, mother in law, father in law, sister in law, brother in law, daughter in law, son in law are prohibited from procuring Corporation Surplus Personal Property or otherwise securing such property through the use of an agent or other third party.

In addition, Corporation employees, other than the Manager, Administrative Services or designee, shall not disclose to any non-employee any information that they obtain regarding such property due to the nature of their employment. Such disclosure by the Manager, Administrative Services or designee shall only be made in the course of the proper discharge of their official duties.

4.6 Personal Property Discarded by the Corporation

Corporation employees shall not, without written permission of the Executive Deputy Director: (1) retrieve or otherwise take possession of Discarded Property for their own use or for the use of other persons, even for purposes of donation; (2) give Discarded Property to other persons; or (3) sell Discarded Property. Any permissions granted pursuant to this section will be retained by the Manager, Administrative Services.

4.7 Signing Authority

1. The Board, if the Fair Market Value of the Property is greater than $500,000 or if the Disposal is for less than Fair Market Value in accordance with Section 5 (paragraphs F and G).
2. The Contracting Officer if the Fair Market Value is up to $500,000.00.
3. The Executive Deputy Director if the Fair Market Value is up to $100,000.00.
4. The Manager, Administrative Services if the Fair market Value of the Property is $5,000 or less.
5. For Fleet related transactions, the Vice President of the Authority's Enterprise Shared Services or equivalent(s), if the Fair Market Value of the Property is up to $500,000.
6. For Fleet related transactions, the Director of the Authority's Fleet Operation, if the Fair Market Value of the Property is up to $100,000.

4.8 At the request of the Executive Vice President and General Counsel, all Authority Business Units and Department Heads shall support and provide assistance in the coordination and administration of this Policy.

5 VIOLATIONS

Violations of this Policy and related policies and procedures by employees may result in disciplinary action up to and including termination. In addition, where the conduct engaged in is illegal, violators may be subject to prosecution under applicable federal, state or local laws.

6 REFERENCES

Abandoned Property Law
Canal Law
Personal Property Law
Public Authorities Law
Vehicle and Traffic Law

8 POLICY REVIEW AND EXPIRATION

This document will be reviewed and updated as business needs require. However, a mandatory review will be required on the anniversary date of the approved document.

Revision cycle : Every Year

9 ATTACHMENTS

Attachment 9.1: Sales Agreement

ATTACHMENT 9.1

PERSONAL PROPERTY
SALES AGREEMENT

_____, the Buyer, and the New York State Canal Corp ("Canal Corp"), agree as follows:

1) The personal property identified herein is sold by the Canal Corp and purchased by Buyer "AS IS, WHERE IS" at the price(s) shown, plus any applicable sales tax.

2) **THE CANAL CORP DOES NOT IN ANY WAY WARRANT THE FITNESS OF THE PERSONAL PROPERTY FOR ANY PARTICULAR USE OR ITS MERCHANTABILITY AND DISCLAIMS ANY OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO, THE QUALITY, CHARACTER, PERFORMANCE, OR CONDITION OF THE PERSONAL PROPERTY OR ANY OF ITS COMPONENT PARTS, ASSEMBLIES, OR ACCESSORIES.**

3) The Buyer warrants that he/she/it is not a current or former Canal Corp employee, is not related to a Canal Corp employee and did not bid on behalf of a Canal Corp employee. Buyer is aware that Canal Corp employees and their family members are precluded from subsequently receiving, or acquiring, in whole or in part, by any manner including gift, sale, loan or lease, the personal property acquired by the Buyer pursuant to this sale. The term "related to" as used in this paragraph means the relationships of spouse, child, parent, sister, brother, grandparent, grandchild, aunt, uncle, cousin, niece, nephew, stepchild, stepparent, stepsister, stepbrother, mother-in-law, father-in-law, sister-in-law, brother-in-law, daughter-in-law, or son-in-law. The Canal Corp reserves the right to invoke any available legal or equitable remedy in the event of a breach by the Buyer of his or her warranty under this paragraph, including but not limited to, rescinding the sale and recovering the property sold and all costs associated with the sale and the rescission of said sale.

4) The Buyer shall indemnify and hold harmless the State of New York, New York Power Authority and the Canal Corp and all of its officers, agents and employees from any loss, damage, remedial or response cost, liability or expense, on account of damage or contamination to property and injuries, including death, to all persons, including Buyer's employees, or any third parties, arising or in any manner growing out of the sale of any personal property or the performance of any work under this agreement and shall defend at its own expense any suits or other proceedings brought against the State of New York, New York Power Authority and the Canal Corp and its officers, agents and employees, or any of them, on account thereof, and pay all expenses and satisfy all judgments which may be incurred by or rendered against them or any of them in connection therewith.

5) Except for disposals by public auction, the Buyer shall remove the personal property from the Canal Corp premises by _____ at Buyer's expense. The Buyer shall make payment upon delivery by certified check payable to the New York State Canal Corporation.

Description of Personal Property:

Selling Price: _____

Executed this_____ day of _____, 20_____.

Buyer (Print or Type):

_____

_____

_____

Seller:

New York State Canal Corporation

30 South Pearl Street

Albany, New York,

_____
Authorized Signature

_____
Authorized Signature

_____
Full Name (Printed)

_____
Title

_____
Title

PRIVACY LAW NOTIFICATION

SECTION 94(1)(d) OF THE NEW YORK PUBLIC OFFICERS LAW REQUIRES THIS NOTICE TO BE PROVIDED WHEN COLLECTING PERSONAL INFORMATION FROM POTENTIAL PURCHASERS OF CANAL CORPORATION PROPERTY.

This information is requested pursuant to Article 5, Title I of the Public Authorities Law. The principal purpose for which the information is collected is to assist the New York State Canal Corporation in the sale of Canal Corp personal property in accordance with Section 96(1) of the Personal Privacy Protection Law, particularly subdivisions (b), (e) and (f).

Failure to provide the requested information may result in ineligibility for participation in a program, sale or benefit provided by the Canal Corp.
This information will be maintained by the Procurement Department at the New York State Canal Corp Corporate Office.

Exhibit A-1
March 26, 2019

CANAL CORPORATION

2018 ANNUAL REPORT OF DISPOSAL OF PERSONAL PROPERTY OVER $5,000

DESCRIPTION	PURCHASER	SALE PRICE	PRICE RECEIVED by Canal Corp.
LOT OF GUARD RAILS W/ PARTS	RONALD WITKOWSKI	$ 5,105.00	$ 5,105.00
MISC NUTS AND BOLTS	BARONI RECYCLING	$ 5,100.00	$ 5,100.00
FRICK SAW MILL	MATTHEW EDWARDS	$ 5,600.00	$ 5,600.00
LOT OF STEEL H BEAMS	BARONI RECYCLING	$ 15,600.00	$ 15,600.00
LOT OF STEEL PILINGS	BARONI RECYCLING	$ 16,200.00	$ 16,200.00
50 TONS STEEL SHEETS / TRIM	TANU IMPEX, LLC	$ 30,100.00	$ 30,100.00
	TOTAL:	$ 77,705.00	$ 77,705.00

3/6/19

Exhibit A-1
March 26, 2019

CANAL CORPORATION

2018 ANNUAL REPORT OF DISPOSAL OF PERSONAL PROPERTY OVER $5,000

FLEET OPERATIONS

DESCRIPTION	PURCHASER	SALE PRICE	Transportation and Other Fees	PRICE RECEIVED * by Canal Corp
1980 MCKIERNAN TRY PILE DRVR	TAYLORS CRANE SERVICE	$ 6,850.00	$ 0.00	$ 6,850.00
1995 P&N CNT50 CNTR SERIES CRANE	COMMERCIAL STEEL	$ 27,600.00	$ 0.00	$ 27,600.00
1990 JOHN DEERE 544E LOADER	RIDGE MTC. CORP	$ 12,600.00	$ 0.00	$ 12,600.00
1977 P&H MT-250 TRUCK CRANE	MCLAUGHLINS MFD HOME MOVING	$ 5,100.00	$ 0.00	$ 5,100.00
1973 P&H MT-250 TRUCK CRANE	L&L SURPLUS OF UTICA INC.	$ 5,100.00	$ 0.00	$ 5,100.00
1995 FORD F545D TACTOR/LOADER	BDM VENTURES LLC	$ 10,100.00	$ 0.00	$ 10,100.00
1998 INTL 4900 4X2 DUMP TRUCK	DOWN N OUT SEAMLESS GUTTERS	$ 6,000.00	$ 0.00	$ 6,000.00
2000 CUSTOM 30 TON TRI AXLE TRL	WOODRUFF CONSTRUCTION	$ 5,200.00	$ 0.00	$ 5,200.00
2004 FONTAINE SPL TL50FLD 108 TRL	CT EQUIPMENT	$ 13,600.00	$ 0.00	$ 13,600.00
1965 LINK BELT CRANE	GREEN WAVE SALVAGE & RECYCLING	$ 5,000.00	$ 0.00	$ 5,000.00
1989 AMERICAN CRANE 5435 CRANE	GWENN GOULD	$ 5,500.00	$ 0.00	$ 5,500.00
2018 CHEVROLET IMPALA 4-DOOR	JASON ROSSI	$ 8,200.00	$ 0.00	$ 8,200.00
1999 INTL 2574 DUMP TRUCK	EUGENE R. SHOVE, INC.	$ 6,000.00	$ 0.00	$ 6,000.00
	FLEET SUBTOTAL:	$ 116,850.00	$ 0.00	$ 116,850.00
	+ SUBTOTAL Page 1:	$ 77,705.00	--	$ 77,705.00
	GRAND TOTAL:	$ 194,555.00	$ 0.00	$ 194,555.00

NEW YORK STATE CANAL CORPORATION
EXPENDITURE AUTHORIZATION PROCEDURES

1. Purpose

These Expenditure Authorization Procedures ("EAPs") set forth the policy of the Canal Corporation regarding approval authority applicable to requisitions for Procurement and Non-Procurement Contracts and the execution of contract documents. These EAPs govern purchasing activities as defined in Canal Corporation's Guidelines for Procurement Contracts ("Procurement Guidelines").

2. Definitions

A. "**Procurement Contracts**" are fully defined in the Procurement Guidelines and include contracts for the acquisition of goods or services necessary to support Canal Corporation offices and operations in the actual or estimated amount of five thousand dollars or more.
B. "**Non-Procurement Contracts**" are fully defined in the Procurement Guidelines, and include contracts for the direct placement of advertisements, subscriptions, fees or tuition, funding agreements, grants, memberships, etc., as more fully set forth in the Procurement Guidelines.
C. "**Personal Service Contracts**" are procurement contracts for services of a consulting, professional or technical nature provided by outside consultants/contractors for a fee or other compensation which include, but are not limited to, accounting, architectural, engineering, financial advisory, legal, public relations, planning, management consulting, surveying, training (when specifically developed by a consultant for the Canal Corporation) and construction management contracts.
D. "**Low Bidder**" generally refers to a contract award recommendation or award on the basis of being the lowest priced qualified bidder submitting a proposal that meets the commercial and technical requirements of the bid documents.
E. "**Best Value**" generally refers to a contract award recommendation or award of a contract for services on the basis of optimum quality, cost and efficiency among commercially and technically qualified responsive and responsible offerors.
F. "**Single Source**" refers to a procurement in which Canal Corporation, upon written findings setting forth material and substantial reasons, may award a contract (or amendment to a contract) to one offeror over another that can supply the goods or services.
G. "**Sole Source**" refers to a procurement in which only one offeror is capable of supplying the required goods and services.
H. "**Non-competitive**" refers to a procurement, as more fully set forth in the Procurement Guidelines, in which a contract award recommendation or award is not made on the basis of being the Low Bidder or Best Value, nor is it awarded on a Single Source or Sole Source basis.

For a more detailed and full listing of definitions, including definitions for non-personal services, construction, equipment and non-procurement contracts, please refer to the Procurement Guidelines. All Single / Sole Source or Non-competitive award required written justification and approval by the VP, SSM at a minimum (also refer to the Guidelines for Procurement Contracts Sections 3.H. N., and O.)

New York State Canal Corporation Expenditure Authorization Procedures

Approval Limits Applicable to Requisitions (Awards or Committed Funding) for Procurement and Non-Procurement Contracts Excluding Personal Services Contracts

Title	Low Bidder or Best Value[1]	Non-competitive, Sole or Single Source[3]	Cumulative Change Order Limit[2] (Subject to Rebidding Thresholds, see page 5)
Director of: Design, Construction Management, Technical Services, Policy & Program Development Manager of: Dam Safety*, Marine Infrastructure*	to $1,000,000	to $500,000	to $250,000
Manager Planning & Environmental Services*, Manager Administrative Services, Division Canal Engineer Civil Engineer 5	to $2,000,000	to $750,000	to $500,000
Deputy Director Engineering, Construction & Maintenance, Executive Deputy Director, Chief of Staff	to $3,000,000	to $750,000	to $500,000
Canal Corporation Chief Operating Officer	to $6,000,000	to $6,000,000	to $6,000,000
Canal Board[4]	over $6,000,000	over $6,000,000	over $6,000,000

* Titles are Shared Service equivalent titles

Notes:

1. "Low Bidder or Best Value" approval limits also apply to Individual Purchase Order Releases (PORs) from active Value Contracts, up to the EVP approval level. An EVP can approve PORs up to the full authorization amount of a Value Contract.
2. Subject to 25% rule - see page 5. Cumulative Change Order limits apply when the original authorized amount of a value contract or Purchase Order has been exceeded. The original authorized aggregate approved value applies when there are multiple contract awards.
3. Single and Sole Source Contracts valued or estimated at $1 million or greater require review for approval by the NYS Comptroller. Change Orders (competitively bid or non-competitively bid) valued or estimated at $1 million or greater or which change the overall value of a contract to $1 million or greater require NYS Comptroller notification.
4. Canal Corporation Board approval is also required when:
    a. The term of a Non-Personal Services or Construction contract including any extensions or options, exceeds 1 year.
    b. The initial term of less than 1 year for Non-Personal Services or Construction contracts extends beyond 1 year.
    c. Cumulative Change Orders exceed $6 million.

New York State Canal Corporation Expenditure Authorization Procedures

Approval Limits for Personal Service Contracts

Title	Low Bidder or Best Value[1]	Non-competitive, Sole or Single Source	Cumulative Change Order Limit[2] (Subject to Rebidding Thresholds, see page 5)
Director of: Design, Construction Management, Technical Services, Policy & Program Development Manager of: Dam Safety*, Marine Infrastructure*	to $100,000	to $50,000	to $50,000
Manager Planning & Environmental Services*, Manager Administrative Services, Division Canal Engineer Civil Engineer 5	to $200,000	to $100,000	to $50,000
Deputy Director Engineering, Construction & Maintenance, Executive Deputy Director, Chief of Staff	to $500,000	to $250,000	to $125,000
Canal Corporation Chief Operating Officer	to $2,000,000	to $1,000,000	to $500,000
Canal Board	over $2,000,000	over $1,000,000	over $500,000

* Titles noted are Shared Service Equivalent titles

Notes:

1. "Low Bidder or Best Value" approval limits also apply to Individual Purchase Order Releases (PORs) from active Value Contracts, up to the EVP approval level. An EVP can approve PORs up to the full authorization amount of a Value Contract.
2. Subject to 25% rule - see page 5. Cumulative Change Order limits apply when the original authorized amount of a value contract or Purchase Order has been exceeded. The original authorized aggregate approved value applies when there are multiple contract awards.
3. Canal Corporation Board approval is also required when:
    a. The term of a Personal Services contract, including any extensions or options, exceeds 1 year.
    b. The initial term of less than 1 year for a Personal Services contract extends beyond 1 year.
    c. Cumulative Change Orders exceed $500,000.

New York State Canal Corporation Expenditure Authorization Procedures

Limits for the Execution of Contract Documents [(1)] (Includes all Purchase Orders, Contracts and Change Orders)

Procurement Team Specialist or Shared Service Equivalent (Below Grade 18)	to $5,000
Senior Procurement Team Specialist or Shared Service Equivalent (Grade 18)	to $50,000
Procurement Team Manager or Shared Service Equivalent (Grade 23 thru 25)	to $250,000
Manager Administrative Services	to $500,000
Executive Deputy Director/ Chief of Staff	to $750,000
NYPA VP - Enterprise Shared Services (Real Estate and Fleet Disposal Transactions only)	to $3,000,000
Canal Corporation Chief Operating Officer	to $10,000,000
NYPA VP – Strategic Supply Management (Procurement)	to $20,000,000
NYPA President, Chairman or Chief Operating Officer	over $20,000,000

Notes:

(1) All delegations of authority must be in writing.

CHANGE ORDER APPROVALS AND REBIDDING THRESHOLDS

1. A) For contracts with initially approved amounts of **$100,000 or less,** rebidding will occur when the total cumulative value of change orders exceeds $25,000.

   B) **If rebidding is not feasible,** any request to increase funding for such contracts must be supported by a detailed memorandum explaining the need for additional funding in excess of the original amount approved. The memorandum shall be approved in accordance with the cumulative change order limits set forth on Pages 2 and 3 and forwarded to the NYPA VP, Strategic Supply Management (SSM) for review and final approval.

2. A) For contracts with initially approved amounts **exceeding $100,000,** rebidding will occur when the total cumulative value of change orders exceeds 25% of the original amount approved.

3. B) **If rebidding is not feasible,** any request to increase funding for such contracts must be supported by a detailed memorandum explaining the need for additional funding in excess of the original amount approved. The memorandum shall be approved in accordance with the cumulative change order limits set forth on Pages 2 and 3 and forwarded to the NYPA VP, SSM for review and approval. Cumulative change orders exceeding 25% of the original contract amount or exceeding $500K for personal services contracts or exceeding $6 million for procurement and non-procurement contracts (whichever is greater), require Trustee approval. The memorandum shall be signed in accordance with the cumulative change order limits set forth on Pages 2 and 3 and forwarded to the NYPA VP, SSM for review, followed by transmittal to the NYPA President, Chairman or Canal Corporation Chief Operating Officer for approval, prior to obtaining the Canal Board's approval. Rebidding should commence as soon as it is recognized that the contract value will exceed these thresholds, even if the term of the contract is not complete.

4. Once the approval of such additional funding is received, any subsequent increase in funding requires an additional memorandum for the Canal Corporation Chief Operating Officer's approval, until either the Canal Board's approval is obtained or the Contract is rebid.

5. Typical bases for additional funding include an "emergency condition" (as defined in Canal Corporation Guidelines for Procurement Contracts) which necessitates the additional funding; a situation where it is impractical to rebid (e.g., a construction project where it would not be reasonable to change contractors) or other reasons as provided for in the Canal Corporation Guidelines for Procurement Contracts. Under-estimating the scope of a Contract or failure to rebid in a timely fashion are not acceptable reasons for increased funding.

Exhibit 5a i-A
March 26, 2019

NEW YORK STATE OF OPPORTUNITY. | NY Power Authority | Canal Corporation

CEO Report

Gil Quiniones
President & Chief Executive Officer

March 26, 2019

NYPA Overall Performance – January 2019

	YTD Target	YTD Actual
Maintain Infrastructure		
Generation Market Readiness	97.40%	99.09%
Transmission System Reliability	94.86%	95.52%
Financial Management		
Debt Coverage Ratio (Q)	2.50	4.20
O&M Budget Performance ($M)	$41.50	$40.04
Energy Services		
Greenhouse Gas (GHG) Saved (tons)	0	0
Energy Efficiency Investment in State Facilities ($M)	$4.86	$7.70
Workforce Management		
Skilled Workforce: Retention (Q)	1,305	1,614
Safety Leadership		
DART Rate	0.78	0.78
Environmental Responsibility		
Environmental Incidents	2	2

YTD Performance Measure Status

▲	Meeting or exceeding target
■	Missing target
●	Significantly missing target
◆	No updated data

NEW YORK STATE OF OPPORTUNITY. NY Power Authority | Canal Corporation

Our Governor has set ambitious Energy and Environmental goals that position New York as a leader in building a carbon free economy

2019 State of the State

- 70% renewable generation by 2030
- 100% carbon-free electricity by 2040
- 9 GW of OSW by 2035
- 6 GW of solar DG by 2025
- 3 GW of energy storage by 2030
- Reduce energy consumption by 185 trillion Btu by 2025



NYPA's Strategic Planning Process

Many of our strategic initiatives will remain as relevant as ever



Framing our planning

1. 2040 planning horizon based on statewide goals for the electricity system.
2. 2030 Strategic Plan that outlines how NYPA will support the State and its customers through the transition to a clean energy economy.
3. 2025 set of strategic initiatives and investments .

2019

Mutual Aid - US Virgin Islands and Puerto Rico

- **Technical Support**
- **Consultation for the Operation, Maintenance and Modernization of the Electric Grid**
  - Building a resilient power system
  - Incorporate renewable energy resources
  - Reduce reliance on fossil fuels

Exhibit 5b i-A
March 26, 2019

NEW YORK STATE OF OPPORTUNITY. | NY Power Authority | Canal Corporation

Chief Financial Officer Report

Lee Garza

Senior Vice President, Financial Operations

March 26, 2019

JANUARY 2019 YEAR-TO-DATE NET INCOME

In $ Millions

			JAN 2019 BUDGET
BUDGETED JANUARY NET INCOME		**$10.4**	
Margins–Generation	*($4.8)*		$83.2
Margins–Transmission	*(5.7)*		14.1
Margins–Non-Utility	*(0.4)*		1.7
Operating Expenses	*4.2*		(78.6)
Net Operating Income	*(6.7)*	**(6.7)**	**20.4**
Interest Expense, Net		**1.7**	(10.0)
ACTUAL JANUARY NET INCOME		**$5.4**	$10.4

1+11 FULL-YEAR FORECASTED NET INCOME

In $ Millions

BUDGETED YEAR-END NET INCOME		**$20.9**		**2019 BUDGET**
Margins–Generation	*$15.6*			$904.9
Margins–Transmission	*(0.2)*			152.8
Margins–Non-Utility	*(0.2)*			20.9
Operating Expenses	*(1.0)*			(939.2)
Net Operating Income	*14.2*	**14.2**		**139.4**
Interest Expense, Net		**1.2**		(118.5)
FORECASTED YEAR-END NET INCOME[1]	**Low Value ($12.4)**	**Forecasted Value $36.3**	**High Value $82.1**	$20.9

[1] 90% variance range developed by varying hydro generation, fossil dispatch, energy and capacity prices, and ancillary services revenue.


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Exhibit 5c i-A
March 26, 2019

NEW YORK STATE OF OPPORTUNITY. | NY Power Authority | Canal Corporation

Board of Trustees Meeting

Joseph F. Kessler, P.E.
EVP & Chief Operating Officer

March 26, 2019

Performance KPIs – YTD January 2019

KPI	January 2019			
	Status	Target	Actual	Variance
Generation Market Readiness	▲	97.40%	99.09%	1.69%
Transmission System Reliability	▲	94.86%	95.52%	0.66%
Environmental Incidents (Corporate)	▲	2	2	0
Dart Rate (Corporate)	▲	0.78	0.78	0

Status

▲	Within Target
■	Outside of Target
●	Significantly Outside of Target Range

Optical Ground Wire Cable (OPGW) and Hardware On-Call Procurement Contract Awards

Background

- Approve five-year, on-call contract awards for OPGW and hardware in the aggregate amount of $15.2M to AFL Telecommunication LLC and MVA Power Inc.

Highlights

- Purchase of equipment (cable and hardware) to support the Communication Backbone Program and Moses - Adirondack Smart Path Reliability Project
- On-call contracts will allow flexibility between suppliers by evaluating lead times and current pricing at the time of purchase to meet project schedules

Niagara Robert Moses Upper Head Gate & Stop Log Rail Slot Refurbishment Project – Contract Award

Background

- Authorize the award of a 9-year, construction contract for the Niagara Robert Moses Upper Head Gate and Stop Log Slot Refurbishment Project in the amount of $16.1 million to BVR Construction, Inc.

Highlights

- Refurbishment of eleven upper head gate and twenty-five stop log rail slots
- Substantial completion expected in 2027
- Interim approval received in February to issue a Notice-to-Proceed


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NEW YORK STATE OF OPPORTUNITY. | NY Power Authority | Canal Corporation

Commercial Operations Report

Sarah Salati

EVP & Chief Commercial Officer

March 26, 2019

Commercial Operations Performance – January 2019

Goal	Measure	Year to Date - January 2019 Status	Target	Actual
Wholesale	Customer Usage (twh)	▲	2.1	2.1
	Generation (twh)	▲	2.2	2.5
	Electric Prices ($/mwh)	●	$62.12	$52.18
	Fuel Price ($/mmbtu)	▲	$10.26	$5.84
	Merchant Gross Margin ($M)*	▬	$32.9	$31.0

Status
▲ Meeting/Exceeding Target (>0%)
▬ Below Target (-1% to -10%)
● Significantly Below Target (<-11%)

* Excludes Astoria Energy II and NYPA Zeltman Power Project

NEW YORK STATE OF OPPORTUNITY. NY Power Authority | Canal Corporation

Commercial Operations Performance – January 2019

Goal	Measure	Year to Date - January 2019		
		Status	Target	Actual
Economic Development	Recharge NY (MW) Allocated	▲	N/A	759/910
	All Programs - Jobs Retained	▲	N/A	403,743
	Capital Committed ($B)	▲	N/A	$34.0
Energy Efficiency	Customer Investments ($M)	▲	$13.5	$15.5
	Non-Utility Revenues ($M)	▲	$0.9	$1.3
	Operating Expenses ($M)	▲	$3.2	$2.9

Status	
▲	Meeting/Exceeding Target (>0%)
▬	Below Target (-1% to -10%)
●	Significantly Below Target (<-11%)

NEW YORK STATE OF OPPORTUNITY. NY Power Authority | Canal Corporation

New York Power Authority
Recommendations - RNY Power Allocations for Retention Purposes

Exhibit "A"
March 26, 2019

Line	Company	City	County	Economic Development Region	IOU	Description	kW Request	kW Recommendation	Jobs Retained	Jobs Created	Total Job Commitment	Capital Investment ($)		Contract Term (years)
1	Alliance Precision Plastics Corporation	Rochester	Monroe	Finger Lakes	RGE	Provider of injection molding solutions	1,279	636	159	0	159	$1,750,000		7
	Finger Lakes Region Sub-totals:							**636**	**159**	**0**	**159**	**$1,750,000**		
2	Alphamed Bottles Inc.	Central Islip	Suffolk	Long Island	LIPA	Manufacturer of plastic pharmaceutical bottles	582	290	29	0	29	$2,000,000	(1)	7
3	Wenner Bread Products, Inc.	Bayport & Ronkonkoma	Suffolk	Long Island	LIPA	Manufacturer & distributor of bread products	3,226	1,610	375	0	375	$1,500,000	(2)	7
	Long Island Region Sub-totals:							**1,900**	**29**	**0**	**29**	**$3,500,000**		
4	JPMorgan Chase Bank, National Association ("JPMC")	Brooklyn & New York	Kings & New York	New York City	CONED	Financial services for global bank	18,960	9,480	22,196	0	22,196	$1,200,000,000	(2)	7
	New York City Region Sub-totals:							**9,480**	**0**	**0**	**0**	**$1,200,000,000**		
	Totals							**12,016**	**188**	**0**	**188**	**$1,205,250,000**		

(1) These companies are also recommended for expansion-related allocations of RNY for separate and distinct job creation and capital investment commitments associated with proposed business expansions.
(2) The applicant currently receives RNY Power allocations at multiple facilities. Rather than apply for contract extensions for each site, the company has opted to apply for a new RNY allocation as a combined campus setting. The appropriate "Jobs Retained" and "Jobs Created" are removed from the total as these jobs are already counted in a prior RNY allocation recommendation.

New York Power Authority
Recommendations - RNY Power Allocations for Expansion Purposes

Exhibit "B"
March 26, 2019

Line	Company	City	County	Economic Development Region	IOU	Description	kW Request	kW Recommendation (1)	Base Employment (3)	Job Creation Commitment	Project Capital Investment ($)		Contract Term (years)
1	TurnKey Internet, Inc.	Latham	Albany	Capital District	NGRID	Data center & cloud computing provider	320	220	15	5	$160,000	(4)	7
	Capital District Region Sub-totals:							**220**	**0**	**5**	**$160,000**		
2	Giovanni Food Co., Inc.	Baldwinsville	Onondaga	Central New York	NGRID	Manufacturer of tomato-based products	550	386	99	5	$7,000,000	(4)	7
	Central New York Region Sub-totals:							**386**	**39**	**5**	**$7,000,000**		
3	Alphamed Bottles Inc.	Central Islip	Suffolk	Long Island	LIPA	Manufacturer of plastic pharmaceutical bottles	100	70	29	9	$2,000,000	(2)	7
	Long Island Region Sub-totals:							**70**	**0**	**9**	**$2,000,000**		
	Totals							**676**	**39**	**19**	**$9,160,000**		

(1) All expansion-based RNY Power allocations are recommended to be "up to" the amount indicated pending the applicant's compliance with contractual commitments, including commitments relating to job creation, capital investment spending and power utilization.
(2) These companies are also being recommended for retention-based RNY Power allocations associated with separate and distinct contractual commitments relating to such matters as job retention, capital investment spending, and power utilization associated with an existing business.
(3) The number of new jobs committed will be above a base employment level specified in the power sale contract with the applicant.
(4) This applicant was previously approved for a retention-based RNY Power allocation. The base employment level refers to the applicant's retained jobs, most of which are already associated with an existing power allocation.

New York Power Authority **Exhibit "C"**
Recommendations - RNY Power Allocations for Retention and Expansion Purposes (Small Business and/or NFP Corporations) **March 26, 2019**

Retention-Based Allocations

Line	Company	City	County	Economic Development Region	IOU	Description	kW Request	kW Recommendation	Jobs Retained	Jobs Created	Capital Investment ($)		Contract Term (years)
1	Margaret Woodbury Strong Museum	Rochester	Monroe	Finger Lakes	RGE	Museum for history & exploration of play	792	260	169	0	$1,000,000	(1)	7
2	Vance Metal Fabricators, Inc.	Geneva	Ontario	Finger Lakes	NYSEG	Metal fabrication & production welding	286	140	70	0	$536,000	(1)	7
	Finger Lakes Region Sub-totals:							**400**	**239**	**0**	**$1,536,000**		
3	Atlantic Color Corp.	Shirley	Suffolk	Long Island	LIPA	Commercial printing & finishing	246	120	28	0	$250,000	(1)	7
4	Comax Manufacturing Corporation	Melville	Suffolk	Long Island	LIPA	Manufacturer of customized flavorings	146	70	54	0	$500,000		7
5	Glen Cove Hospital	Glen Cove	Nassau	Long Island	LIPA	Hospital & healthcare services	1,346	446	820	0	$14,090,783		7
6	Long Island Jewish Medical Center	Valley Stream	Nassau	Long Island	LIPA	Hospital & healthcare services	794	260	1,010	0	$48,163,895		7
7	Marcum LLP	Melville	Nassau	Long Island	LIPA	Accounting & consulting services	315	156	200	0	$2,000,000		7
8	North Shore University Hospital	Syosset	Nassau	Long Island	LIPA	Hospital & healthcare services	799	266	751	0	$4,494,297		7
9	Northwell Health Stern Family Center for Rehabilitation	Manhasset	Nassau	Long Island	LIPA	Rehabilitation & extended care services	523	170	461	0	$4,914,000		7
10	Plainview Hospital	Plainview	Nassau	Long Island	LIPA	Hospital & healthcare services	1,005	336	1,097	0	$23,329,036		7
	Long Island Region Sub-totals:							**1,824**	**4,421**	**0**	**$97,742,011**		
11	Greenwich Village Ambulatory Surgery Center, LLC	New York	New York	New York City	CONED	Surgical care in orthopedics & neurosurgery	744	246	130	0	$26,000,000		7
12	Lenox Hill Hospital	New York	New York	New York City	CONED	Hospital & healthcare services	954	316	322	0	$5,000,000		7
13	Long Island Jewish Medical Center	Forest Hills	Queens	New York City	CONED	Hospital & healthcare services	1,098	366	1,355	0	$9,003,327		7
14	Long Island Jewish Medical Center	Glen Oaks	Queens	New York City	CONED	Hospital & healthcare services	389	126	853	0	$2,970,000		7
	New York City Region Sub-totals:							**1,054**	**2,660**	**0**	**$42,973,327**		

Retention-Based Totals	**3,278**	**7,320**	**0**	**$142,251,338**

New York Power Authority **Exhibit "C"**
Recommendations - RNY Power Allocations for Retention and Expansion Purposes (Small Business and/or NFP Corporations) **March 26, 2019**

Expansion-Based Allocations

Line	Company	City	County	Economic Development Region	IOU	Description	kW Request	kW Recommendation (3)	Base Employment	Job Creation Commitment	Project Capital Investment ($)		Contract Term (years)
15	Margaret Woodbury Strong Museum	Rochester	Monroe	Finger Lakes	RGE	Museum for history & exploration of play	270	90	169	30	$60,000,000	(1), (2)	7
16	Vance Metal Fabricators, Inc.	Geneva	Ontario	Finger Lakes	NYSEG	Metal fabrication & production welding	30	16	70	2	$2,785,000	(1), (2)	7
	Central New York Region Sub-totals:							**106**	**0**	**32**	**$62,785,000**		
17	Atlantic Color Corp.	Shirley	Suffolk	Long Island	LIPA	Commercial printing & finishing	250	126	28	8	$900,000	(1), (2)	7
	Long Island Region Sub-totals:							**126**	**0**	**8**	**$900,000**		
18	Icahn Institute of Medical Research at Mount Sinai LLC	New York	New York	New York City	CONED	Research facility for life science analytics	170	56	0	202	$30,000,000		7
	New York City Region Sub-totals:							**56**	**0**	**202**	**$30,000,000**		

Expansion-Based Totals	**288**	**0**	**242**	**$93,685,000**
Retention & Expansion-Based Totals	**3,566**	**7,320**	**242**	**$235,936,338**

(1) These applicants are being recommended for both RNY retention and expansion-based allocations.
(2) The number of new jobs committed will be above a base employment level specified in the applicant's retention-based allocation recommendation.
(3) All expansion-based RNY Power allocations are recommended to be “up to” the amount indicated pending the applicant’s compliance with contractual commitments, including commitments relating to job creation, capital investment spending and power utilization.

New York Power Authority **Exhibit "D"**
Recommended Modifications to Retention Allocation Awards **March 26, 2019**

Line	Company	City	County	Economic Development Region	IOU	Description	kW Request	kW Recommendation	Jobs Retained	Jobs Created	Total Job Commitment	Capital Investment ($)		Contract Term (years)
1	Nassau Candy Distributors, Inc.	Hicksville	Nassau	Long Island	LIPA	Manufacturer of confectionary products	1,235	616	393	0	393	$2,450,000	(1)	7
2	Seviroli Foods, Inc.	Garden City	Nassau	Long Island	LIPA	Manufacturer of pasta specialties	1,895	946	228	30	258	$5,200,000	(2)	7
	Long Island Region Sub-totals:							**520**	**0**	**0**	**0**	**$0**		
	Totals							**520**	**0**	**0**	**0**	**$0**		

(1) This information reflects a recommendation for a modified RNY Power allocation in order to address new information the Authority received.
(2) This information reflects a recommendation for a modified employment commitment in order to address to address new information the Authority received.

New York Power Authority
ReCharge New York Power Program
Informational Item - Applicants Not Eligible

Exhibit "E"
March 26, 2019

Line	Company	City	County	Economic Development Region	IOU	Description	Reason
1	Go Africa Network Inc.	New York	New York	New York City	CONED	Food manufacturing facility	The applicant is ineligible as a foreign not-for-profit organization which does not meet the definition of a not-for-profit as defined in the RNY legislation.

New York Power Authority
ReCharge New York Power Program
Informational Item - Terminate Application/Review Process

Exhibit "F"
March 26, 2019

Line	Company	City	County	Economic Development Region	IOU	Description	Reason
1	No Women Are Least International Corp.	New York	New York	New York City	CONED	Women's empowerment organization	Applicant submitted an incomplete application.

Exhibit G
March 26, 2019

(Statutory Criteria – RNY Power Program)

- the significance of the cost of electricity to the applicant's overall cost of doing business, and the impact that a Recharge New York power allocation will have on the applicant's operating costs;

- the extent to which a Recharge New York power allocation will result in new capital investment in the state by the applicant;

- the extent to which a Recharge New York power allocation is consistent with any regional economic development council strategies and priorities;

- the type and cost of buildings, equipment and facilities to be constructed, enlarged or installed if the applicant were to receive an allocation;

- the applicant's payroll, salaries, benefits and number of jobs at the facility for which a Recharge New York power allocation is requested;

- the number of jobs that will be created or retained within the state in relation to the requested Recharge New York power allocation, and the extent to which the applicant will agree to commit to creating or retaining such jobs as a condition to receiving a Recharge New York power allocation;

- whether the applicant, due to the cost of electricity, is at risk of closing or curtailing facilities or operations in the state, relocating facilities or operations out of the state, or losing a significant number of jobs in the state, in the absence of a Recharge New York power allocation;

- the significance of the applicant's facility that would receive the Recharge New York power allocation to the economy of the area in which such facility is located;

- the extent to which the applicant has invested in energy efficiency measures, will agree to participate in or perform energy audits of its facilities, will agree to participate in energy efficiency programs of the authority, or will commit to implement or otherwise make tangible investments in energy efficiency measures as a condition to receiving a Recharge New York power allocation;

- whether the applicant receives a hydroelectric power allocation or benefits supported by the sale of hydroelectric power under another program administered in whole or in part by the New York Power Authority;

- the extent to which a Recharge New York power allocation will result in an advantage for an applicant in relation to the applicant’s competitors within the state; and

- in addition to the foregoing criteria, in the case of a not-for-profit corporation, whether the applicant provides critical services or substantial benefits to the local community in which the facility for which the Recharge New York power allocation is requested is located.

New York Power Authority **Exhibit "A"**

Extension Recommendations - RNY Power Allocations for Retention Purposes (Large Businesses, Small Business, and/or NFP Corporations) **March 26, 2019**

Retention-Based Allocations

Line	Company	City	County	Economic Development Region	IOU	Description	Current kW Amount	kW Recommendation	Job Commitments	Capital Investment Commitment ($)		Contract Term (years)
1	Aeroflex Plainview, Inc.	Plainview	Nassau	Long Island	LIPA	Manufacturer of electronics products	600	430	160	$625,000	(1)	7
2	Agri-Mark, Inc.	Chateaugay	Franklin	North Country	NYSEG	Manufacturer of cheese & whey products	696	696	80	$2,500,000		7
3	Air Industries Group, Inc.	Bay Shore	Suffolk	Long Island	LIPA	Manufacturer of machined components	650	470	164	$3,000,000	(1)	7
4	AMT Incorporated	Sharon Springs	Schoharie	Mohawk Valley	NGRID	Manufacturer of metals	60	60	7	$300,000		7
5	Arkwin Industries, Inc.	Westbury	Nassau	Long Island	LIPA	Manufacturer of aerospace components	440	440	156	$6,055,804		7
6	Automotive Corporation	Batavia	Genesee	Finger Lakes	NGRID	Manufacturer of automotive components	226	226	160	$2,500,000		7
7	AV Pork Products, Inc.	Hicksville	New York	Long Island	LIPA	Distribution of pork products	170	170	252	$2,000,000		7
8	Barton Mines Company, L.L.C.	North River	Warren	North Country	NGRID	Hard rock garnet mining	730	730	27	$5,000,000		7
9	BASF Corporation	Tarrytown	Westchester	Mid-Hudson	CONED	Pharmaceuticals & chemical company	1,600	1,600	190	$10,000,000		7
10	Broad Street Industrial Park, Inc.	Utica	Oneida	Mohawk Valley	NGRID	Commercial leasing company	110	110	3	$100,000		7
11	C.R. Bard, Inc.	Queensbury	Warren	Capital District	NGRID	Manufacturer of medical devices	550	550	700	$12,000,000		7
12	Calico Cottage, Inc.	Amityville	Suffolk	Long Island	LIPA	Manufacturer of fudge-making ingredients	136	136	65	$1,250,000		7
13	Calspan Corporation	Niagara Falls	Niagara	Western New York	NGRID	Aerospace & transportation safety testing	90	90	40	$200,000		7
14	Cambridge Valley Machining, Inc.	Cambridge	New York	Capital District	NGRID	Manufacturer of machined components	160	160	83	$2,100,000		7
15	Cascades Containerboard Packaging - Schenectady Inc.	Schenectady	Schenectady	Capital District	NGRID	Manufacturer of packaging products	420	420	125	$1,250,000		7
16	Castella Imports Inc.	Hauppauge	Suffolk	Long Island	LIPA	Warehousing of imported food products	136	136	130	$1,000,000		7
17	Century Linen & Uniform, Inc.	Gloversville	Fulton	Mohawk Valley	NGRID	Linen & laundry supply	180	180	154	$2,000,000		7
18	Chapin Manufacturing, Inc.	Batavia	Genesee	Finger Lakes	NGRID	Manufacturer of air compressed sprayers	816	816	165	$3,000,000		7
19	Chobani, LLC	New Berlin	Chenango	Southern Tier	NYSEG	Manufacturer of yogurt products	6,000	6,000	752	$25,000,000		7
20	Conax Technologies LLC	Buffalo	Erie	Western New York	NYSEG	Manufacturer of sensors & compression fittings	140	140	125	$2,000,000		7
21	Corning Incorporated	Oneonta	Otsego	Mohawk Valley	NYSEG	Manufacturer of specialty glass & ceramics	866	866	170	$15,000,000		7

New York Power Authority **Exhibit "A"**

Extension Recommendations - RNY Power Allocations for Retention Purposes (Large Businesses, Small Business, and/or NFP Corporations) **March 26, 2019**

Retention-Based Allocations

Line	Company	City	County	Economic Development Region	IOU	Description	Current kW Amount	kW Recommendation	Job Commitments	Capital Investment Commitment ($)		Contract Term (years)
22	Corning Incorporated	Corning	Steuben	Southern Tier	NYSEG	Manufacturer of specialty glass & ceramics	2,956	2,956	2,803	$147,000,000		7
23	Corning Incorporated	Canton	St. Lawrence	North Country	NGRID	Manufacturer of specialty glass & ceramics	2,260	2,260	195	$30,000,000		7
24	Corning Incorporated	Painted Post	Steuben	Southern Tier	NYSEG	Manufacturer of specialty glass & ceramics	7,090	7,090	1,898	$200,000,000		7
25	Corning Incorporated	Painted Post	Steuben	Southern Tier	NYSEG	Manufacturer of specialty glass & ceramics	8,366	8,366	1,320	$139,000,000		7
26	DeIorio Foods, Inc.	Frankfort	Herkimer	Central New York	NGRID	Frozen & baked food processor	340	340	175	$5,000,000		7
27	Dresser-Rand LLC	Painted Post	Steuben	Southern Tier	NYSEG	Manufacturer of petroleum extraction equipment	810	810	71	$8,500,000		7
28	Empire Cheese, Inc.	Cuba	Allegany	Western New York	NGRID	Cheddar cheese making operations	1,250	1,250	212	$3,000,000		7
29	Essity Professional Hygiene North America LLC	South Glens Falls	Saratoga	Capital District	NGRID	Manufacturer of tissue products	4,710	4,710	194	$10,000,000		7
30	Essity Professional Hygiene North America LLC	Greenwich	Washington	Capital District	NGRID	Manufacturer of tissue products	540	540	84	$3,750,000		7
31	Essity Professional Hygiene North America LLC	Saratoga	Saratoga	Capital District	NGRID	Manufacturer of tissue products	80	80	18	$250,000		7
32	Flagpoles, Incorporated	East Setauket	Suffolk	Long Island	LIPA	Manufacturer of poles	100	100	75	$1,400,000		7
33	Flower City Printing, Inc.	Rochester	Monroe	Finger Lakes	RGE	Commercial printing & finishing	300	300	82	$2,500,000		7
34	Formed Plastics, Inc.	Carle Place	Nassau	Long Island	LIPA	Manufacturer of plastic products	246	246	70	$200,000		7
35	Fulton Group N.A., Inc.	Pulaski	Oswego	Central New York	NGRID	Manufacturer of heating equipment	370	370	255	$5,000,000		7
36	Genpak LLC	Middletown	Orange	Mid-Hudson	ONR	Manufacturer of food packaging products	1,420	1,420	94	$750,000		7
37	Golden Artist Colors Inc.	New Berlin	Chenango	Southern Tier	NYSEG	Manufacturer of professional grade acrylic paint	110	110	185	$750,000		7
38	Hi-Tech Pharmacal Co., Inc.	Amityville	Suffolk	Long Island	LIPA	Manufacturer of pharmaceutical products	750	750	380	$3,750,000		7
39	Hollingsworth & Vose Company	Greenwich	Washington	Capital District	NGRID	Manufacturer of nonwoven materials	2,250	2,250	150	$2,000,000		7
40	HP Hood LLC	LaFargeville	Jefferson	North Country	NGRID	Manufacturer of cultured dairy projects	886	886	117	$4,000,000		7
41	Hunts Point Cooperative Market, Inc.	New York	Bronx	New York City	CONED	Food distribution center	2,726	2,726	2,400	$4,741,700		7
42	IEC Electronics Corp.	Newark	Wayne	Central New York	NYSEG	Manufacturer of electric wire & cable	510	510	525	$10,000,000		7

New York Power Authority **Exhibit "A"**

Extension Recommendations - RNY Power Allocations for Retention Purposes (Large Businesses, Small Business, and/or NFP Corporations) **March 26, 2019**

Retention-Based Allocations

Line	Company	City	County	Economic Development Region	IOU	Description	Current kW Amount	kW Recommendation	Job Commitments	Capital Investment Commitment ($)		Contract Term (years)
43	IEC Electronics Corp.	Rochester	Monroe	Finger Lakes	RGE	Manufacturer of electric wire & cable	96	96	52	$1,500,000		7
44	Kionix, Inc.	Ithaca	Tompkins	Southern Tier	NYSEG	Manufacturer of inertial sensors	440	390	97	$5,000,000	(1)	7
45	L. & J. G. Stickley Incorporated	Manlius	Onondaga	Central New York	NGRID	Manufacturer of furniture products	910	910	625	$5,000,000		7
46	Lehigh Cement Company LLC	Glens Falls	Warren	Capital District	NGRID	Manufacturer of cement products	4,390	4,390	94	$8,000,000		7
47	Lockheed Martin Corporation	Owego	Tioga	Southern Tier	NYSEG	Provider of advanced technological products	3,606	3,606	2,400	$325,000,000		7
48	Madelaine Chocolate Novelties, Inc.	Rockaway Beach	Queens	New York City	LIPA	Manufacturer of chocolate products	370	370	200	$200,000		7
49	Manth-Brownell Inc.	Kirkville	Madison	Central New York	NGRID	Manufacturer of machined parts	450	400	120	$1,500,000	(1)	7
50	Mayer Bros. Apple Products Inc.	Somerset	Niagara	Western New York	NGRID	Manufacturer of bottled water & juices	220	220	92	$2,500,000		7
51	Mayer Bros. Apple Products Inc.	West Seneca	Erie	Western New York	NYSEG	Manufacturer of bottled water & juices	376	376	207	$10,000,000		7
52	Metal Locking Service Inc.	Buffalo	Erie	Western New York	NGRID	Equipment repair & custom fabricator	50	50	8	$200,000		7
53	New York-Presbyterian Healthcare System, Inc.	New York	New York	New York City	CONED	Hospital & healthcare services	5,000	5,000	8,500	$400,000,000		7
54	Nucor Steel Auburn, Inc.	Auburn	Cayuga	Central New York	NYSEG	Steel recycling & manufacturing facility	10,000	10,000	283	$25,000,000		7
55	NYU Langone Hospitals	New York	New York	New York City	CONED	Hospital & healthcare services	5,000	5,000	13,185	$1,700,000,000		7
56	O-AT-KA Milk Products Cooperative, Incorporated	Batavia	Genesee	Finger Lakes	NGRID	Agricultural manufacturing of milk products	2,080	2,080	356	$30,000,000		7
57	Oetiker NY, Inc.	Lancaster	Erie	Western New York	NYSEG	Manufacturer of fittings for fluid systems	100	100	185	$5,000,000		7
58	Pace University	Pleasantville	Westchester	Mid-Hudson	CONED	Institution of higher education	330	330	380	$17,000,000		7
59	Perrigo New York, Inc.	Bronx	Bronx	New York City	CONED	Manufacturer of pharmaceutical products	160	160	295	$15,000,000		7
60	Pfaudler, Inc.	Rochester	Monroe	Finger Lakes	RGE	Manufacturer of glass lined equipment	820	820	195	$2,000,000		7
61	Protective Industries, Inc.	Buffalo	Erie	Western New York	NGRID	Manufacturer of plastic products	366	366	299	$1,000,000		7
62	Robinson Home Products Inc.	Buffalo	Erie	Western New York	NGRID	Manufacturer of kitchen & dining items	76	76	39	$50,000		7
63	S.Howes, LLC	Silver Creek	Chautauqua	Western New York	NYSEG	Manufacturer & designer of process equipment	20	14	13	$50,000	(2)	7

New York Power Authority **Exhibit "A"**

Extension Recommendations - RNY Power Allocations for Retention Purposes (Large Businesses, Small Business, and/or NFP Corporations) **March 26, 2019**

Retention-Based Allocations

Line	Company	City	County	Economic Development Region	IOU	Description	Current kW Amount	kW Recommendation	Job Commitments	Capital Investment Commitment ($)		Contract Term (years)
64	Sabic Innovative Plastics US LLC	Selkirk	Albany	Capital District	NGRID	Manufacturer of plastic materials & resins	10,000	10,000	445	$50,000,000		7
65	Salerno Packaging Inc.	Plattsburgh	Clinton	North Country	NYSEG	Manufacturer of plastic films & bags	656	656	40	$1,300,000		7
66	Seneca Larkin 701, LLC	Buffalo	Erie	Western New York	NGRID	Real estate development company	210	210	11	$5,000,000		7
67	SI Group, Inc.	Rotterdam Junction	Schenectady	Capital District	NGRID	Manufacturer of electrical insulation	1,850	1,850	148	$27,000,000		7
68	The Rosalind and Joseph Gurwin Jewish Geriatric Center of Long Island, Inc.	Commack	Suffolk	Long Island	LIPA	Healthcare & rehabilitation services	166	166	663	$3,500,000		7
69	Turnkey Internet, Inc.	Latham	Albany	Capital District	NGRID	Data center & cloud computing provider	640	640	15	$100,000		7
70	Ultralife Corporation	Newark	Wayne	Finger Lakes	NYSEG	Manufacturer of battery products	360	360	228	$20,000,000		7
71	Ward Pine Mill, Inc.	Jay	Essex	North Country	NYSEG	Saw mill & forest products	416	416	35	$1,200,000		7
72	Zweigle's, Inc.	Rochester	Monroe	Finger Lakes	RGE	Manufacturer of hot dogs & sausages	216	216	48	$1,000,000		7
	Totals						**102,220**	**101,764**	**44,269**	**$3,341,572,504**		

(1) The customer is being recommended for an RNY Power extension recommendation at a decreased kW amount due to their reduced level of extension jobs committed as compared to their current contractual employment commitment.
(2) The customer requested an RNY Power extension recommendation at a lower kW amount as compared to their current RNY award.

New York Power Authority **Exhibit "B"**

Modifications to Extension Recommendations - RNY Power Allocations for Retention Purposes (Large Businesses, Small Business, and/or NFP Corporations) **March 26, 2019**

Retention-Based Allocations

Line	Company	City	County	Economic Development Region	IOU	Description	Final kW Recommendation	Final Job Commitments	Final Capital Investment Commitment ($)		Contract Term (years)
1	Allied Frozen Storage, Inc.	Cheektowaga	Erie	Western New York	NGRID	Frozen food storage facility	230	31	$1,000,000	(1)	7
2	Angion Biomedica Corp.	Uniondale	Nassau	Long Island	LIPA	Research and development lab	60	7	$2,500,000	(2)	7
3	BorgWarner Morse TEC LLC	Ithaca	Tompkins	Southern Tier	LIPA	Manufacturer of automotive components	3,500	1,100	$76,200,000	(3)	7
4	Bronx-Lebanon Hospital Center	Bronx	Bronx	New York City	CONED	Hospital & healthcare center	2,146	3,778	$11,291,671	(4)	7
5	Cliffstar LLC	Dunkirk	Chautauqua	Western New York	NGRID	Manufacturer of beverage products	970	400	$10,000,000	(5)	7
6	ConMed Corporation	Utica	Oneida	Mohawk Valley	NGRID	Manufacturer of medical equipment	1,390	556	$4,000,000	(6)	7
7	Hebeler Corporation	Tonawanda	Erie	Western New York	NGRID	Manufacturer of turbine equipment	180	100	$1,000,000	(7)	7
8	Imerys Wollastonite USA, LLC	Willsboro	Essex	North Country	NYSEG	Production of minerals	1,080	70	$6,000,000	(8)	7
9	John Hassall, LLC	Westbury	Nassau	Long Island	LIPA	Manufacturer of fasteners	220	55	$2,200,000	(9)	7
10	Lydall Performance Materials, Inc.	Green Island	Albany	Capital District	NGRID	Manufacturer of insulation & filtration materials	1,330	85	$3,000,000	(10)	7
11	Mohawk Ltd.	Chadwicks	Oneida	Mohawk Valley	NGRID	Electronic repairs & calibration services	40	46	$25,000	(11)	7
12	Pivot Punch Corporation	Lockport	Niagara	Western New York	NGRID	Manufacturer of precision tools	160	64	$1,000,000	(12)	7
13	Qubica AMF Worldwide, LLC	Lowville	Lewis	North Country	NGRID	Manufacturer of bowling pins	450	80	$750,000	(13)	7
14	Schneider Packaging Equipment Company, Inc.	Brewerton	Onondaga	Central New York	NGRID	Manufacturer of packaging machinery	110	125	$250,000	(14)	7
15	Specialized Packaging Radisson LLC	Baldwinsville	Onondaga	Central New York	NGRID	Manufacturer of folding cartons	1,350	272	$4,500,000	(15)	7
16	U.S. Nonwovens Corp.	Brentwood	Suffolk	Long Island	LIPA	Manufacturer of personal care products	166	284	$3,500,000	(16)	7

(1) Since its existing allocation was conditionally extended, Allied Frozen Storage, Inc. has asked to reduce its employment commitment from 36 to 31 jobs. Therefore, staff is recommending a reduction in its Extended Allocation from 240 kW to 230 kW to reflect a revised employment commitment of 31 jobs.

(2) Since its existing allocation was conditionally extended, Angion Biomedica Corp. has asked to reduce its employment commitment from 17 to 7 jobs. Therefore, staff is recommending a reduction in its Extended Allocation from 120 kW to 60 kW to reflect a revised employment commitment of 7 jobs.

(3) Since its existing allocation was conditionally extended, BorgWarer Morse TEC LLC has indicated that it will reduce its employment commitment from 1,200 to 1,100 jobs. Therefore, staff is recommending a reduction in this applicant's employment commitment to 1,100 jobs in connection with its Extended Allocation of 3,500 kW.

(4) Due to the configuration of its business campus, Bronx-Lebanon Hospital Center submitted multiple applications for an extension of one existing RNY Power allocation in the amount of 2,146 kW. As a result, each application was initially approved, potentially leading to the erroneous conclusion that the company has been approved for more than one RNY Power allocation with multiple supplemental commitments for jobs and capital investments. Staff asks that the Board recommend to the NYPA Trustees that a single RNY Power allocation in the amount of 2,146 kW be extended for this business with an employment commitment of 3,778 jobs and capital investment commitment of $11,291,671.

(5) Since its existing allocation was conditionally extended, Cliffstar LLC has asked to reduce its employment commitment from 460 to 400 jobs. Therefore, staff is recommending a reduction in this company's Extended Allocation from 1,000 kW to 970 kW to reflect a revised employment commitment of 400 jobs.

(6) Since its existing allocation was conditionally extended, ConMed Corporation has asked to reduce its employment commitment from 645 to 556 jobs. Therefore, staff is asking the Board to recommend a reduction in its Extended Allocation from 1,440 kW to 1,390 kW to reflect a revised employment commitment of 556 jobs.

(7) Since its existing allocation was conditionally extended, Hebeler Corporation has asked to reduce its employment commitment from 115 to 100 jobs. Therefore, staff is recommending a reduction in its Extended Allocation from 186 kW to 180 kW to reflect a revised employment commitment of 100 jobs.

(8) Since its existing allocation was conditionally extended, Imerys Wollastonite USA, LLC has asked to reduce its employment commitment from 104 to 70 jobs. Therefore, staff is recommending a reduction in its Extended Allocation from 1,400 kW to 1,080 kW to reflect a revised employment commitment of 70 jobs.
(9) Since its existing allocation was conditionally extended, John Hassall, LLC has asked to reduce its employment commitment from 94 to 55 jobs. Therefore, staff is recommending a reduction in the company's Extended Allocation from 320 kW to 220 kW to reflect a revised employment commitment of 55 jobs.
(10) Since its existing allocation was conditionally extended, Lydall Performance Materials, Inc. has asked to reduce its employment commitment from 95 to 85 jobs. Therefore, staff is recommending a reduction in the company's Extended Allocation from 1,340 kW to 1,330 kW to reflect a revised employment commitment of 85 jobs.
(11) Since its existing allocation was conditionally extended, Mohawk Ltd. has asked to reduce its employment commitment from 53 to 46 jobs. Therefore, staff is recommending a reduction in the company's Extended Allocation from 46 kW to 40 kW to reflect a revised employment commitment of 46 jobs.
(12) Since its existing allocation was conditionally extended, Pivot Punch Corporation has asked to reduce its employment commitment from 78 to 64 jobs. Therefore, staff is recommending a reduction in its Extended Allocation from 176 kW to 160 kW to reflect a revised employment commitment of 64 jobs.
(13) Since its existing allocation was conditionally extended, Qubica AMF Worldwide, LLC has asked to reduce its employment commitment from 94 to 80 jobs. Therefore, staff is recommending a reduction in its Extended Allocation from 470 kW to 450 kW to reflect a revised employment commitment of 80 jobs.
(14) Since its existing allocation was conditionally extended, Schneider Packaging Equipment Company, Inc. has asked to reduce its employment commitment from 151 to 125 jobs. Therefore, staff is recommending a reduction in its Extended Allocation from 120 kW to 110 kW to reflect a revised employment commitment of 125 jobs.
(15) Specialized Packaging Radisson LLC was conditionally approved for an extension of its existing RNY Power allocation of 600 kW. However, the employment commitment that was paired with this Extended Allocation was 235 jobs instead of 37 jobs. In addition, a separate RNY Power allocation in the amount of 750 kW, associated with an employment commitment of 235 jobs and a capital investment commitment of $2,500,000 was transferred to this company, and is ripe for extension, and the company would like these two allocations merged into a single extended allocation. In order to address these issues in an efficient manner, staff asks the Board to recommend to the NYPA Trustees that the company's two allocations be merged into a single, extended allocation totaling 1,350 kW, and that employment and capital investment commitments associated with this single RNY Power allocation be set at 272 jobs and $4,500,000, respectively.
(16) U.S. Nonwovens Corp. was previously approved for an Extended Allocation. Due to a processing error, the amount of the allocation approved was 56 kW instead of 166 kW. Therefore, staff is recommending that the amount of the Extended Allocation be revised to 166 kW and that the company's employment commitment be set at 284 jobs.

Exhibit C
March 26, 2019

(Statutory Criteria – RNY Power Program)

- the significance of the cost of electricity to the applicant's overall cost of doing business, and the impact that a Recharge New York power allocation will have on the applicant's operating costs;

- the extent to which a Recharge New York power allocation will result in new capital investment in the state by the applicant;

- the extent to which a Recharge New York power allocation is consistent with any regional economic development council strategies and priorities;

- the type and cost of buildings, equipment and facilities to be constructed, enlarged or installed if the applicant were to receive an allocation;

- the applicant's payroll, salaries, benefits and number of jobs at the facility for which a Recharge New York power allocation is requested;

- the number of jobs that will be created or retained within the state in relation to the requested Recharge New York power allocation, and the extent to which the applicant will agree to commit to creating or retaining such jobs as a condition to receiving a Recharge New York power allocation;

- whether the applicant, due to the cost of electricity, is at risk of closing or curtailing facilities or operations in the state, relocating facilities or operations out of the state, or losing a significant number of jobs in the state, in the absence of a Recharge New York power allocation;

- the significance of the applicant's facility that would receive the Recharge New York power allocation to the economy of the area in which such facility is located;

- the extent to which the applicant has invested in energy efficiency measures, will agree to participate in or perform energy audits of its facilities, will agree to participate in energy efficiency programs of the authority, or will commit to implement or otherwise make tangible investments in energy efficiency measures as a condition to receiving a Recharge New York power allocation;

- whether the applicant receives a hydroelectric power allocation or benefits supported by the sale of hydroelectric power under another program administered in whole or in part by the New York Power Authority;

- the extent to which a Recharge New York power allocation will result in an advantage for an applicant in relation to the applicant’s competitors within the state; and

- in addition to the foregoing criteria, in the case of a not-for-profit corporation, whether the applicant provides critical services or substantial benefits to the local community in which the facility for which the Recharge New York power allocation is requested is located.

Exhibit A
March 26, 2019

APPLICATION SUMMARY
Replacement Power ("RP")

Company:	Time Release Sciences, Inc. ("TRS")
Location:	City of Buffalo
County:	Erie
IOU:	National Grid
Business Activity:	Consumer Products Manufacturer
Project Description:	TRS is planning to modernize manufacturing equipment through automation, add six new production lines, and expand its current facility with a 96,000-square-foot addition.
Existing Allocation(s):	Three allocations of Replacement Power (200 kW, 250 kW and 250 kW). These allocations are tied to a collective job commitment of 77 jobs. TRS's employment is currently at 96. TRS is currently in compliance with its contractual commitments.
Power Request:	350 kW
Power Recommended:	200 kW
Job Commitment:	
Existing:	96 jobs
New:	12 jobs
New Jobs/Power Ratio:	60 jobs/MW
New Jobs - Avg. Wage and Benefits:	$52,407
Capital Investment:	$13.5 million
Capital Investment/MW:	$67.63 million/MW
Other Incentives:	Possible support from the Erie County Industrial Development Agency relating to building financing.
Summary:	With this expansion, TRS is planning to double its size, expand its production of the "Magic Eraser" product lines for Proctor & Gamble and begin production of new products once fully operational by early 2021.

New York Power Authority **Exhibit "A"**
Municipal Electric Utility and Rural Electric Cooperative Systems **March 26, 2019**
Hydropower Contract and Notice of Public Hearing

Municipal Electric Utility or Rural Electric Cooperative System	City/ Town/ Village	Full or Partial Requirement	Firm Hydropower Allocation* (kW)	Peaking Power Allocation (kW)	Total Hydropower Allocation* (kW)	County	Region
Village of Akron	Akron	Partial	7,796	37	7,833	Erie	Western New York
Village of Andover	Andover	Partial	1,413	7	1,420	Allegany	Western New York
Village of Angelica	Angelica	Partial	1,616	8	1,624	Allegany	Western New York
Village of Arcade	Arcade	Partial	24,923	120	25,043	Wyoming	Finger Lakes
Steuben Rural Electric Cooperative Inc.	Bath	Full	12,733	60	12,793	Madison	Southern Tier
Village of Bath	Bath	Partial	13,489	64	13,553	Steuben	Southern Tier
Village of Bergen	Bergen	Partial	2,707	11	2,718	Genesee	Finger Lakes
Village of Boonville	Boonville	Partial	13,427	61	13,488	Oneida	Mohawk Valley
Oneida-Madison Electric Cooperative Inc.	Bouckville	Full	3,549	17	3,566	Madison	Central New York
Village of Brocton	Brocton	Partial	2,804	14	2,818	Chautauqua	Western New York
Village of Castile	Castile	Partial	1,515	7	1,522	Wyoming	Finger Lakes
Village of Churchville	Churchville	Partial	3,563	17	3,580	Monroe	Finger Lakes
Delaware County Electric Cooperative Inc.	Delhi	Full	11,607	46	11,653	Delaware	Southern Tier
Village of Endicott	Endicott	Partial	9,312	44	9,356	Broome	Southern Tier
Village of Fairport	Fairport	Partial	76,706	366	77,072	Monroe	Finger Lakes
Village of Frankfort	Frankfort	Partial	3,449	17	3,466	Herkimer	Mohawk Valley
Village of Freeport	Freeport	Partial	38,155	181	38,336	Nassau	Long Island
Village of Green Island	Green Island	Partial	3,028	13	3,041	Albany	Capital District
Village of Greene	Greene	Partial	6,835	32	6,867	Chenango	Southern Tier
Village of Greenport	Greenport	Full	5,278	25	5,303	Suffolk	Long Island
Village of Groton	Groton	Partial	4,447	21	4,468	Tompkins	Southern Tier
Village of Hamilton	Hamilton	Partial	10,755	51	10,806	Madison	Central New York
Otsego Electric Cooperative Inc.	Hartwick	Full	7,984	38	8,022	Otsego	Mohawk Valley
Village of Holley	Holley	Partial	4,350	21	4,371	Orleans	Finger Lakes
Village of Ilion	Ilion	Partial	16,131	61	16,192	Herkimer	Mohawk Valley
City of Jamestown	Jamestown	Partial	72,744	346	73,090	Chautauqua	Western New York
Village of Lake Placid	Lake Placid	Full	28,915	137	29,052	Essex	North Country
Village of Little Valley	Little Valley	Partial	3,840	18	3,858	Cattaraugus	Western New York
Village of Marathon	Marathon	Full	4,285	20	4,305	Cortland	Central New York
Massena Electric Department	Massena	Partial	23,570	107	23,677	St. Lawrence	North Country
Village of Mayville	Mayville	Full	4,523	21	4,544	Chautauqua	Western New York
Village of Mohawk	Mohawk	Partial	4,315	20	4,335	Herkimer	Mohawk Valley
Village of Penn Yan	Penn Yan	Partial	12,982	62	13,044	Yates	Finger Lakes
Village of Philadelphia	Philadelphia	Partial	2,092	10	2,102	Jefferson	North Country
City of Plattsburgh	Plattsburgh	Partial	103,916	492	104,408	Clinton	North Country
Village of Richmondville	Richmondville	Partial	2,700	13	2,713	Schoharie	Mohawk Valley
Village of Rockville Centre	Rockville Centre	Partial	28,660	136	28,796	Nassau	Long Island
Village of Rouses Point	Rouses Point	Partial	13,765	70	13,835	Clinton	North Country
City of Salamanca	Salamanca	Partial	13,029	61	13,090	Cattaraugus	Western New York
Village of Sherburne	Sherburne	Partial	12,829	63	12,892	Chenango	Southern Tier
City of Sherrill	Sherrill	Full	12,937	56	12,993	Oneida	Mohawk Valley
Village of Silver Springs	Silver Springs	Partial	908	4	912	Wyoming	Finger Lakes
Village of Skaneateles	Skaneateles	Partial	5,200	24	5,224	Onondaga	Central New York
Village of Solvay	Solvay	Partial	54,741	260	55,001	Onondaga	Central New York
Village of Spencerport	Spencerport	Partial	12,605	60	12,665	Monroe	Finger Lakes
Village of Springville	Springville	Partial	9,327	44	9,371	Erie	Western New York
Village of Theresa	Theresa	Partial	1,511	7	1,518	Jefferson	North Country
Village of Tupper Lake	Tupper Lake	Full	18,835	91	18,926	Franklin	North Country
Village of Watkins Glen	Watkins Glen	Full	6,218	29	6,247	Schuyler	Southern Tier
Village of Wellsville	Wellsville	Partial	10,306	49	10,355	Allegany	Western New York
Village of Westfield	Westfield	Partial	12,476	60	12,536	Chautauqua	Western New York
Total (kW)			764,800	3,600	768,400		

* Firm Hydropower and Total Hydropower amounts as of this date; the Contract accomodates future re-distribution of the IEDP program's 54 MW portion of Firm hydropower that is shared amongst the Customers.

Exhibit B
March 26, 2019

POWER AUTHORITY

OF THE

STATE OF NEW YORK

30 South Pearl Street
Albany, New York 12207

AGREEMENT FOR THE SALE

OF NIAGARA PROJECT WHOLESALE POWER AND ENERGY TO

Customer

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POWER AUTHORITY OF THE STATE OF NEW YORK

30 South Pearl Street

Albany, New York 12207

AGREEMENT FOR THE SALE OF NIAGARA PROJECT WHOLESALE POWER AND ENERGY

The POWER AUTHORITY OF THE STATE OF NEW YORK ("Authority" or "NYPA"), created pursuant to Chapter 772 of the New York Laws of 1931 and existing under Title I of Article V of the New York Public Authorities Law ("PAL"), having its office and principal place of business at 30 South Pearl Street, 10th Floor, Albany, New York 12207-3425, hereby enters into this Agreement for the Sale of Niagara Project Wholesale Power and Energy ("Agreement") with <Customer Legal Name> ("Customer") with offices and principal place of business at <Customer Address>. The Authority and the Customer are from time to time referred to in this Agreement as "Party" or collectively as "Parties" and agree as follows:

RECITALS

WHEREAS, the Authority operates the Niagara Power Project, Federal Energy Regulatory Commission ("FERC") Project No. 2216, in accordance with the Niagara Redevelopment Act, and Title 1 of Article 5 of the Public Authorities Law ("PAL") also known as the Power Authority Act;

WHEREAS, prior to the Effective Date, the Authority has provided the Customer with electric service in accordance with one or more written agreements (collectively, "Prior Agreement") to enable the Customer to receive Electric Service consisting of Niagara Project Power and Energy;

WHEREAS, the Customer has requested that the term of its allocation of Niagara Project Power and Energy be extended to September 1, 2040;

WHEREAS, the Parties have reached an agreement on the terms and conditions applicable for the sale of the allocation of Niagara Project Power and Energy for an extended term as provided for in this Agreement;

WHEREAS, the Parties desire to enter into this Agreement in advance of expiration of the Prior Agreement in order to promote commercial and financial certainty and long-term planning by each of the Parties;

WHEREAS, the Authority's Board of Trustees ("Trustees") approved the extension of the Customer's allocation of Niagara Project Power and Energy, subject to

agreement on the terms and conditions for the sale of such allocation and related matters;

WHEREAS, the Parties intend that the Clean Energy Standard obligations of the Full Requirements Customers be substantially equivalent by contract to the Clean Energy Standard obligations of the Partial Requirements Customers.

WHEREAS, electric service under this Agreement will be subject to the rates and other terms and conditions of Service Tariff Nos. 38A or 39A, as applicable, as provided for in this Agreement;

NOW, THEREFORE, in consideration of mutual covenants, terms, and conditions herein, and for other good and valuable consideration, the receipt and adequacy of which the Parties hereby acknowledge, the Parties do hereby mutually covenant and agree as follows:

I. Definitions

When used with initial capitalization, whether singular or plural, the following terms, as used in this Agreement, shall have the meanings as set forth below. When used with initial capitalization, whether singular or plural, terms defined elsewhere in this Agreement or in appendices or other attachments to this Agreement, shall have the meanings set forth therein.

Adverse Water Condition means any event or condition, including without limitation a hydrologic or hydraulic condition, that relates to the flow, level, or usage of water at or in the vicinity of the Project and/or its related facilities and structures, and which prevents, threatens to prevent, or causes the Authority to take responsive action that has the effect of preventing, the Project from producing a sufficient amount of energy to supply the full power and energy requirements of firm power and firm energy customers of the Authority who are served by the Project.

Agreement means this Agreement including the appendices hereto (also known as “Long Term Agreement” or “LTA”).

Allocation refers to Customer’s allocation of Niagara Project Power and Energy as specified in Appendix A.

Ancillary Services are services necessary to support the transmission of capacity and energy from generation resources to consumers, while maintaining the reliable operation of New York’s transmission system.

Authority has the meaning set forth in the opening paragraph of this Agreement.

CES means Clean Energy Standard as defined in Appendix D.

Commission or **PSC** means the New York Public Service Commission.

Contract Demand will be the amount of kilowatts ("kW") set forth in Appendix A hereto or such other amount as may be determined in accordance with the provisions of this Agreement.

Customer is the municipality or rural electric cooperative identified in Appendix A and a signatory to this Agreement. Customer does not include the retail customers of municipal and rural electric cooperative systems. Customers means the group of municipalities and rural electric cooperatives identified in Appendix B.

Customer Associations are the Municipal Electric Utilities Association of New York State ("MEUA"), and the New York Association of Public Power ("NYAPP"), or any successor organization.

Effective Date means the date that this Agreement is fully executed by the Parties.

Electric Service is any type of power and energy made available to Customer under this Agreement in accordance with applicable Service Tariffs and Rules.

FERC means the U.S. Federal Energy Regulatory Commission (or any successor organization).

FERC License means the license issued by the FERC to the Authority for the continued operation and maintenance of the Niagara Power Project (Project No. 2216), dated March 15, 2007.

Firm and Peaking Hydroelectric Power and Energy means Firm Hydroelectric Energy, Firm Hydroelectric Power, Firm Hydroelectric Peaking Energy, and Firm Hydroelectric Peaking Power supplied from the Project under this Agreement, the Rules, and applicable Service Tariff.

Firm Hydroelectric Energy means energy (kWh) associated with Firm Hydroelectric Power intended to be available at all times except for limitations provided in this Agreement, the Rules, and applicable Service Tariff.

Firm Hydroelectric Power means capacity (kW) from the Project including the capacity adjustments necessary to meet the Installed Reserve Margin set by the New York State Reliability Council intended to be available at all times except for limitations provided in this Agreement, the Rules, or applicable Service Tariff and subject further to limitations provided in the NYISO Tariffs or applicable rules as

they may be modified from time to time. Firm Hydroelectric Power shall not include Firm Hydroelectric Peaking Power.

Firm Hydroelectric Peaking Energy means energy (kWh) associated with Firm Hydroelectric Peaking Power supplied at 12.5% monthly load factor.

Firm Hydroelectric Peaking Power means additional capacity (kW) from the Project intended to be available during Customer's peak load periods and limited as to the associated Firm Hydroelectric Peaking Energy to be supplied as set forth in this Agreement, the Rules, and applicable Service Tariff.

Full Requirements Customers are those Customers that receive Electric Service from the Authority under Service Tariff No. 38A, or the successor to such Service Tariff.

Industrial Economic Development Program (or **IEDP)** means the Industrial Economic Development Program which is comprised of 54 MW of the total Firm Hydroelectric Power allocated to the Customers. It is intended to support economic development in the Customers' respective service territories.

Load Factor means the Native System Load recorded during the billing period divided by the product of maximum metered demand and the number of hours in the same billing period.

Load Serving Entity or **LSE:** An entity, including a municipal electric system, a joint action agency, and an electric cooperative, authorized or required by law, regulatory authorization or requirement, agreement, or contractual obligation to supply Energy, Capacity and/or Ancillary Services to retail customers located within the New York Control Area ("NYCA"), including an entity that takes service directly from the NYISO to supply its own load in the NYCA, or otherwise defined in the NYISO Tariffs.

Native System Load means the total consumption of the Customer's electric system without the offset of any municipal or rural cooperative system-owned, behind-the-meter generation. It represents the sum of all incoming energy, plus internal generation behind the system meter, minus energy exports to the bulk electric system.

Niagara Project Power and Energy means the Firm and Peaking Hydroelectric Power and Energy supplied from the Project in accordance with this Agreement, the Rules, and applicable Service Tariff.

Niagara Redevelopment Act ("NRA") means the federal statute enacted in 1957, and codified at 16 U.S.C. § 836.

NYISO means the New York Independent System Operator or any successor organization.

NYISO Capability Period is as defined in the NYISO Open Access Transmission Tariff: Six-month periods which are established as follows: (1) from May 1 through October 31 of each year; and (2) from November 1 of each year through April 30 of the following year; or such other periods as may be determined by the Operating Committee of the NYISO.

NYISO Tariffs means the NYISO's Open Access Transmission Tariff or the NYISO's Market Administration and Control Area Services Tariff, as applicable, as such tariffs are modified from time to time, or any successor to such tariffs.

Partial Requirements Customers are those Customers that receive Electric Service from the Authority under Service Tariff No. 39A, or the successor to such Service Tariff.

Planned Hydropower Curtailment means a temporary reduction in the amount of Firm Hydroelectric Energy (and Firm Hydroelectric Peaking Energy, if being supplied at the time) which the Customer is entitled to receive under this Agreement, which the Authority makes in response to an Adverse Water Condition that the Authority (i) anticipated, and (ii) provided advance notice of pursuant to Section V.b of this Agreement.

Project means the Niagara Power Project, FERC Project No. 2216.

RES means Renewable Energy Standard as defined in Appendices C & D.

Rules are the applicable provisions of the Authority's Rules and Regulations (Chapter X of Title 21 of the Official Compilation of Codes, Rules and Regulations of the State of New York), as amended from time to time by the Authority.

Scheduling and Settlement Procedures means the systems and procedures in place as of the Effective Date to arrange for the scheduling and settlement of Firm and Peaking Hydroelectric Power and Energy on an hourly, daily and monthly basis, and any adjustments thereto.

Service Tariff means the Authority's Service Tariff No. 38A applicable to Full Requirements Customers, and Service Tariff No. 39A applicable to Partial Requirements Customers, which contain, among other things, the rates and other conditions for sale of Electric Service to Customer, as each such Service Tariff may be modified from time to time by the Authority.

State Energy Plan ("SEP") means the 2015 New York State Energy Plan as amended from time to time.

Substitute Energy means energy that is provided to a Customer by or through the Authority for the purpose of replacing Firm Hydroelectric Energy (and Firm Hydroelectric Peaking Energy, if being supplied at the time) that is not supplied to the Customer due to a Planned Hydropower Curtailment or Unplanned Hydropower Curtailment.

Term means the time period during which this Agreement is in effect, which includes from the Effective Date to September 1, 2040.

Unplanned Hydropower Curtailment means a temporary reduction in the amount of Firm Hydroelectric Energy (and Firm Hydroelectric Peaking Energy, if being supplied at the time) which the Customer is entitled to receive under this Agreement, which is made by the Authority in response to an Adverse Water Condition that the Authority did not anticipate.

II. Actions to Support the State's CES, RES, and SEP

a. The Customers agree to take actions to support the goals underlying the CES, RES and SEP. As more specifically described in the SEP and PSC orders issued as of the Effective Date of this Agreement, such goals, which are targeted to be achieved statewide by 2030, include: a) reduction of greenhouse gas emissions from 1990 levels of 40%; b) achievement of a goal of 50% of the statewide generation of electricity coming from carbon-free renewable energy sources, such as solar, wind, hydropower and biomass; and c) a 23% decrease in energy consumption in buildings statewide from the baseline of 2012 levels.

b. For the purpose of supporting these goals, the Customer, working with its respective Customer Association(s), shall work with NYPA to:

   i. Revise existing Customer retail tariffs in order to encourage efficient off-peak usage and overall economic usage, acknowledging that such Customer tariffs are retail tariffs and may be subject to further regulatory approval from the Commission. The Parties further understand that the application of such tariffs, including, but not limited to time-of-use rates, energy storage options, and other options shall only be implemented if deemed cost-effective by the Customer. The Parties further agree that due to their unique characteristics, the Customer shall facilitate as appropriate, manage and control the interaction of its retail customers with the grid.

   ii. Implement distribution-level technologies that encourage the adoption of cost-effective distributed energy resources ("DER") and other energy services through improved end-use consumer and

practical third-party engagement. The Customer shall adopt cost-effective DER programs appropriate to its system configuration and size. The Customer shall adopt tariff modifications, subject to regulatory approval as applicable, to attempt to implement such changes, though individual participation rates are expected to vary at the retail level.

iii. The Customers will work towards implementing specific goals, consistent with the ultimate objectives of the CES (as it may be modified over time, subject to final legal action), on a proportionate and aggregate basis, and consistent with the goals of the SEP. The Parties acknowledge and agree that the Customers may work together to implement various projects, policies and programs consistent with these goals, and the Parties further acknowledge that the specific method of implementation shall be in the discretion of the Customers. The Customers and NYPA agree to work together and with the Customer Associations to implement these activities in a cost-effective and efficient manner, consistent with the unique characteristics of the Customers.

c. In addition to the foregoing requirements in Section II.b.i-iii, each of the Full Requirements Customers shall pay the Zero Emissions Credit Charge and Renewable Energy Credit Charge provided in Appendix C and Appendix D, respectively.

III. Implementation of Energy Efficiency and Renewable Energy Programs

a. The Customer shall continue to implement "REV"[1]-related items in order to expand energy efficiency and energy conservation activities to benefit its respective service area. Such activities shall include, but not be limited to, the ongoing and successful Independent Energy Efficiency Program ("IEEP"), as well as other individual programs and Customer system accomplishments involving residential, commercial and industrial lighting, motors, solar programs, smart meters, ENERGY STAR(R), demand response and various energy saving programs, projects and policies.

b. The Customer shall, at a minimum, make 1 mil (one-thousandth of a dollar/kWh) available for the activities set forth under this LTA, and that such funds shall remain available within each Customer's budget for ongoing energy efficiency, renewable energy or other related technologies. The Parties further acknowledge and agree that for those Customers subject to the jurisdiction of the Commission, such commitments are subject to its review and approval. NYPA acknowledges and agrees that the Customers

[1] *See*, Proceeding on Motion of the Commission in Regard to Reforming the Energy Vision, Case 14-M-0101.

shall have unfettered discretion to implement programs, policies and projects, and the timing of such implementation, consistent with this Article, so long as a minimum of 1 mil is made available.

c. A joint Customer/NYPA "Implementation Task Force" is hereby created as of the Effective Date of this Agreement and will meet regularly to track projects implemented and in process, as well as to provide assistance in project development and creation for all Customers. A full description of the powers and duties of this task force is found in Appendix E to this Agreement.

d. A "Technology & Innovation Task Force" is hereby created as of the Effective Date of this Agreement. A description of the Technology & Innovation Task Force's powers and duties is found in Appendix E to this Agreement.

e. The Parties agree that the Customers shall make energy usage data available to NYPA as required to support the activities implemented pursuant to this Article, consistent with the Customer's privacy protocols, including individual customer anonymity, law and regulation.

f. The Parties agree to work collectively for the purpose of developing a reporting process that will track and highlight annual achievements through a standardized format, and such report shall be submitted to NYPA annually. The goal of this initiative is to develop the reporting process no later than six (6) months from the Effective Date of this Agreement. The Parties acknowledge and agree that such reports shall conform to existing Commission reports for energy efficiency plans, spending and achievements, and shall conform to the reports provided by IEEP and the individual Customers. For the avoidance of doubt, the existing IEEP reports are satisfactory for these purposes.

IV. Electric Service to be Provided

a. The Authority shall provide Electric Service pursuant to the applicable Service Tariff to enable the Customer to receive its Allocation, as described in Appendix A, from the Project in accordance with this Agreement, the Service Tariffs and the Rules, and consistent with the provisions of the NRA and the FERC License. Except as provided in this Agreement and IEDP reallocations, the Authority shall not reduce the Niagara Project Power and Energy sold to the Customer below the level and rates of delivery prescribed in this Agreement.

b. In the event the Authority increases the capability of the Project, the Authority shall conduct a study to determine whether additional quantities of Firm and Peaking Hydroelectric Power and Energy will be produced. If the Authority determines that additional quantities of Firm and Peaking Hydroelectric Power

and Energy will be produced from the Project as a result of such changes or upgrades, the aggregate percentage of such classes of power and/or energy to be offered to Customers shall be associated with the percentage allocations of power and energy referenced in the NRA, including the preference for public bodies and rural electric cooperatives contained in the NRA 16 U.S.C. § 836(b)(1).

c. To the extent practicable, the allocations among the Customers of additional quantities of power and energy of any type shall be in accordance with the percentages reflected in Appendix B.

V. Hydropower Curtailments and Substitute Energy

a. The Authority shall have the right to implement Planned Hydropower Curtailments for any Adverse Water Condition that the Authority anticipated and for which the Authority provided advance notice pursuant to Section V.b of this Agreement. The Authority will implement Planned Hydropower Curtailments on a non-discriminatory basis as to all Authority customers that are served by the Project.

b. The Authority will provide the Customer with advance notice of any Planned Hydropower Curtailment that in the Authority's judgment will impact Electric Service. Such notice will be provided no later than the tenth (10th) business day of the month prior to the month in which the Planned Hydropower Curtailment is expected to occur, unless the Authority is unable to provide such notice due to the circumstances that impede such notice, in which case the Authority will provide such advance notice that is practicable under the circumstances.

c. The Authority shall have the right to implement Unplanned Hydropower Curtailments for any Adverse Water Condition that the Authority did not anticipate. The Authority will implement Unplanned Hydropower Curtailments on a non-discriminatory basis as to all Authority customers that are served by the Project.

d. The Authority shall notify the Customer of the occurrence of an Unplanned Hydropower Curtailment which in the Authority's judgment will impact Electric Service to the Customer. Such notice will be provided within five (5) business days after the first occurrence of an Unplanned Hydropower Curtailment that occurs within a month, and thereafter will provide the Customer with reasonable notice under the circumstances of the potential for any other Unplanned Hydropower Curtailments that are expected to occur within such month or beyond.

e. The Authority will supply each Full Requirements Customer with Substitute Energy during Planned Hydropower Curtailments, and will supply each Full Requirements Customer and Partial Requirements Customer with Substitute Energy during Unplanned Hydropower Curtailments, provided, however, that the supply of Substitute Energy during an Unplanned Hydropower Curtailment will be for the shortest duration that is commercially reasonable considering the circumstances, including but not limited to the operating procedures of the Authority, third-party transmission or delivery utilities who deliver the Substitute Energy, and the NYISO.[2]

f. Unless otherwise agreed upon by the Parties in writing, Substitute Energy will be sourced from markets administered by the NYISO.

g. The Authority will provide each Customer with an explanation of all Planned Hydropower Curtailments and Unplanned Hydropower Curtailments, and an accounting of all charges assessed to such Customer for Substitute Energy.

h. Each Customer shall reimburse the Authority for all costs that the Authority incurs for providing Substitute Energy to such Customer. The charges for such costs shall appear on the Authority's bills, and payment of such charges are subject to the provisions of the applicable Service Tariff and the Rules relating to the payment of bills. The Authority's failure to provide notice pursuant to Section V.b or Section V.d shall not affect the obligation of any Customer to pay for Substitute Energy.

VI. NYISO

The Authority shall act as the LSE with respect to the NYISO for the Full Requirements Customers.

Each Partial Requirements Customer acknowledges that it is responsible for all appropriate NYISO charges, and that the Authority does not act as the LSE for Partial Requirements Customers with respect to the NYISO.

VII. Operational Control

Nothing in this Agreement shall affect NYPA's sole operational control of the Project or require that NYPA operate the Project in any particular manner, including by

[2] For the sake of clarity, the Parties acknowledge and agree that the Authority has no obligation, and by entering into this Agreement it is not undertaking any obligation, to supply Substitute Energy during Planned Hydropower Curtailments to any Partial Requirements Customer at any time.

way of example, a manner inconsistent with its historical operational practices or with contractual, license, or other legal requirements relating to the Project, including the FERC License.

VIII. Term and Termination of Service

Once initiated, Electric Service shall continue until the earliest of: (a) termination by Customer with respect to all or part of its Allocation upon one (1) year's prior written notice; (b) termination by the Authority pursuant to this Agreement, the applicable Service Tariff, or the Rules; or (3) September 1, 2040.

The Authority shall invite the Customer to commence good faith negotiations for the purpose of attempting to reach agreement on proposed terms and conditions for an extension of this Agreement by contacting Customer Associations, who the Customer hereby designates to act as its agent for such purpose. Such invitation shall be made no later than September 1, 2035, or on a date agreed upon by the Parties.

IX. Service Tariff; Conflicts

The Rules, Service Tariff No. 38A, or Service Tariff No. 39A, as applicable, as now in effect and/or such superseding tariffs or other tariffs as the Authority may later promulgate, all as such Rules and Service Tariffs may be later amended from time to time, by the Authority are hereby incorporated into this Agreement with the same force and effect as if herein set forth at length.

In the event of any inconsistencies, conflicts or differences between the provisions of the Service Tariff and the Rules, the provisions of the Service Tariff shall govern. In the event of any inconsistencies, conflicts or differences between the provisions of this Agreement and the Service Tariff or the Rules, the provisions of this Agreement shall govern.

To the extent the New York State Administrative Procedure Act ("SAPA") applies to any proposed change to the Rules or Service Tariffs, the applicable notice period under such statute shall apply.

The Authority shall provide the Customer with a copy of the Authority Board of Trustees' approval of any proposed change to the Rules or Service Tariffs within two (2) business days of Board approval.

To the extent the SAPA does not apply to any proposed change to the Rules or Service Tariffs, the Authority shall provide at least sixty (60) days prior written notice of

the change to Customer, during which time consultation with Customers shall take place.

X. Scheduling and Settlement Procedures

NYPA will settle all Customers Native System Load uniformly and in accordance with (a) NYPA Scheduling and Settlement Procedures, and (b) NYISO principles and practices.

In the event the Authority determines that a modification to the Scheduling and Settlement Procedures and/or methodologies is necessary for consistency with this Agreement, to conform such procedures and/or methodologies to the requirements of the NYISO, or to improve the efficiency of NYPA and/or Customer operations, the Authority shall first consult with Customers and Customer Associations in order to identify and attempt to mitigate any adverse impacts on the Customers that may result from the proposed modification. Where such modification in procedure and/or methodology may result in a more than de minimis adverse impact on the Customer, such good faith consultations shall seek to maintain or restore the relative positions of the Parties with respect to the rights, obligations, benefits and burdens as contemplated at the time of execution of this Agreement. Ninety (90) days after the commencement of such consultation, NYPA will have the sole discretion to finalize such procedure and/or methodology unless one or more of the Customers in good faith informs NYPA that it cannot conform to the new procedures within that time, in which case it will be allowed a reasonable extension to make the necessary changes. Any modifications to the procedures and/or methodologies must be consistent with this Agreement and the NRA.

XI. Metering

Each Customer delivery point shall utilize revenue grade metering instrumentation, consistent with the NYISO Metering Requirements Manual (or its successor) that measures the Native System Load from all sources. In cases in which NYPA does not own the meter as of the Effective Date, NYPA shall have direct remote read access to the meter interval and register data via NYPA's MV90 system (or its successor or equivalent), and NYPA shall be invited to witness calibration test(s) of the meter. All new interconnections shall be metered by NYPA-owned metering instrumentation. In the event that NYPA determines that the cost of new interconnections to a legacy metering system is unreasonably expensive, the Customer and NYPA will meet to develop a reasonably acceptable alternative.

In the event that remote access is temporarily unavailable, Customer shall send such interval and register data to NYPA, through a medium and protocol specified by NYPA in its sole discretion, provided, however, that there shall be no requirement of a daily provision of such data during the period of temporary unavailability. Customer

shall provide such data to NYPA on a reasonable but no less than weekly basis. Any requirements of this paragraph shall be at the sole cost of the Authority.

At the Customer's sole discretion, and at no cost to the Customer, the Customer may access information produced by the "Base" service level (or the "Base" service level's prospective equivalent) of NYPA's New York Energy Manager ("NYEM") based upon the data collected from Customer's electric system. Should Customer enroll in NYEM at levels other than the NYEM "Base" or its prospective equivalent, the Customer must pay the fees and associated equipment costs applicable to such level.

XII. Rates

Niagara Project Power and Energy provided by the Authority from the Project shall be sold to the Customer at cost-based rates, consistent with the NRA and the FERC License and based on Cost of Service ("CoS") Principles and Methodologies set forth in the March 5, 1986 Settlement Agreement settling *Auer v. Dyson*, No. 81-124 (Sup. Ct. Oswego Co.), *Auer v. Power Authority*, Index No. 11999-84 (Sup. Ct. N.Y. Co.) and *Delaware County Electric Cooperative, Inc. v. Power Authority*, 82 Civ. 7256 (S.D.N.Y.) (the "*Auer* Settlement"). The Authority shall charge and the Customer shall pay the preference power rates as adopted by the Authority from time to time as long as those rates remain in effect. During the Term of this Agreement, the Customer and Customer Associations will not object to rates that apply the following additional and current CoS Principles and Methodologies:

a. Recovery of capital costs;
b. Treatment of energy sales to third parties, including the NYISO;
c. Allocation of Indirect Overheads;
d. Recovery in rates of all prudent Hydro Project relicensing, life extension and modernization costs;
e. Use of the Rate Stabilization Reserve described in Appendix F; and
f. Crediting sales of excess Unforced Capacity ("UCAP") to the CoS.

In the event the Authority ceases to employ any of the CoS Principles and Methodologies enumerated above, the Customer shall have the right to dispute such action, but shall not have the right to challenge any of the other CoS Principles and Methodologies that are employed in the CoS. Notwithstanding the foregoing, in the event that the Authority, the Customer, or the Customer Associations believe that circumstances call for adding or changing CoS Principles or Methodologies, the Parties and Customer Associations agree to good faith negotiations to address these matters.

XIII. Other Classes of Power and Energy

a. In the event that the Authority, in its sole discretion, and consistent with applicable law, determines that any class of power and energy other than those

classes sold pursuant to Service Tariff Nos. 38A and 39A is available for sale to Customer or that additional power and energy under the applicable Service Tariffs is available for sale to Customer, the Authority shall notify Customer as soon as practicable and follow the procedures set forth in Article IV herein.

b. Customer or its representatives may raise a claim for quantities or classes of Project power and energy beyond those sold to Customer under this Agreement only if and to the extent that the Project capability existing on the date of execution hereof is modified.

XIV. NYISO Ancillary Services

a. Customer shall receive the lesser of i) a pro-rata share of NYPA's Niagara and St. Lawrence-FDR Project generation-related NYISO Ancillary Services revenues (Schedules 2, 3, 5, and 6); or ii) the pro-rata share that the Customer owes to the NYISO with respect to NYISO Schedules 2, 3, 5 and 6 (or in the case of the Full Requirements Customers, the amounts NYPA owes to the NYISO on their behalf) with respect to their Niagara Project Power and Energy purchases. For the purposes of this provision, a Customer's Niagara Project Power and Energy purchases shall be determined without regard to any Planned Hydropower Curtailments and/or Unplanned Hydropower Curtailments. NYPA's reimbursement of the LSE-related charges for NYISO Schedules 2, 3, 5, and 6 under this Section of the Agreement will be offset by the costs of such services.

b. If the Project or St. Lawrence-FDR Power Project garner revenues from the sale of new Ancillary Services after the date of this Agreement, and the Customer (or NYPA as the LSE) is required to purchase such service from the NYISO, then the Parties will negotiate in good faith and for the mutual benefit of all Parties to include such services in a manner consistent with this section.

c. If self-supply of any Ancillary Service is allowed in the future the Parties will engage in good faith negotiations for the mutual benefit of all Parties with regard to potential implementation of self-supply arrangements.

d. If during the Term of this Agreement there is a fundamental change in the structure of the electricity market in New York, and such change has a material effect on the rights, obligations, benefits and burdens contemplated by this section on Ancillary Services, the Parties shall negotiate in good faith to restore the relative positions of the Parties.

XV. Communications

a. Prior to implementing any changes in procedures related to the sale of Firm and Peaking Hydroelectric Power and Energy provided to the Customer under this Agreement, which the Authority determines will impact the Customer, the Authority will notify the Customer of the nature of and reasons for the proposed change and the date of its proposed implementation. Except where the circumstances prevent such notice, such notice shall be provided no fewer than sixty (60) days before the change is implemented.

b. Any notification or communication required by paragraph (a) or by any other provision of this Agreement shall be provided in writing directly to the individual who has been designated by the Customer as the appropriate contact person, as set forth below:

[Name]
[Title]
[Organization]
[Address]
[phone #]
[e-mail address]

It shall be the responsibility of the individual designated above, and not the Authority, to provide the notification or communication required by paragraph (a) to the individual employed by each Customer in the highest executive or senior managerial position with direct responsibility for electric utility matters.

c. Any notification or communication by the Customer regarding this Agreement shall be provided in writing directly to the individual in the position designated by the Authority as the appropriate contact person, as set forth below:

[Name]
[Title]
[Organization]
[Address]
[phone #]
[e-mail address]

d. Any change by the Authority or the Customer regarding the individual designated to receive notices or communications shall be provided in writing, via mail or email.

e. To the extent practicable, each Party shall provide the maximum time period possible for the notice required in this Article.

XVI. Legal or Regulatory Change

If at any time after the effective date of this Agreement there is any change to any law or regulation applicable to this Agreement, or to any tariff or rule of the NYISO, that substantially alters the contractual relationship between the Parties or the allocation of benefits hereunder, the Parties shall meet for the purpose of determining whether any amendments, revisions or additions to this Agreement are necessary in order to maintain or restore the benefits of this Agreement to each Party as contemplated at the time of execution hereof. If the Parties agree that an amendment, revision or addition is necessary, the Parties shall negotiate in good faith concerning any such amendment, revision or addition to this Agreement.

XVII. Applicable Law

This Agreement shall be governed by and construed in accordance with the laws of the State of New York to the extent that such laws are not inconsistent with the NRA or the FERC License.

XVIII. Venue

Each Party consents to exclusive jurisdiction and venue of any state or federal court within or for Albany County, New York, with subject matter jurisdiction for adjudication of any claim, suit, action or any other proceeding in law or equity arising under or in any way relating to this Agreement.

XIX. Assignment or Transfer

The Customer may not assign or transfer any part of this Agreement unless the Authority in its sole discretion provides its prior written consent, which consent will not be unreasonably withheld, to such assignment or transfer.

XX. Previous Agreements; Modifications; and Interpretations

This Agreement shall constitute the sole and complete agreement of the Parties hereto with respect to the sale of the Allocation listed in Appendix A and the subject matter of this Agreement. Such agreement supersedes all previous agreements and communications between the Parties hereto, either oral or written, with reference to the subject matter of this Agreement.

The Prior Agreement is superseded and terminated effective as of the Effective Date of this Agreement, provided, however, that: (i) the Customer shall remain liable to

the Authority for all duties, liabilities, charges and obligations due in accordance with the Prior Agreement that have accrued prior to the Effective Date.

No person who is not a Party/signatory to this Agreement shall have any rights under this Agreement.

No modifications of this Agreement shall be binding upon the Parties hereto or either of them unless such modification is in writing and is signed by a duly authorized officer of each of them.

No provision of this Agreement shall be construed against a Party on the basis that such Party drafted such provision.

XXI. Severability and Voidability

If any term or provision of this Agreement shall be invalidated, declared unlawful or ineffective in whole or in part by an order of the FERC, the Commission, or a court of competent jurisdiction, such order shall not be deemed to invalidate the remaining terms or provisions hereof.

Notwithstanding the preceding paragraph, if any provision of this Agreement is rendered void or unenforceable or otherwise modified by a court or agency of competent jurisdiction, the entire Agreement shall, at the option of either Party and only in such circumstances in which such Party's interests are materially and adversely impacted by any such action, be void and unenforceable.

NYPA and Customer agree that each and every part of this Agreement is in consideration of every other part thereof and if any provision is rendered invalid or unenforceable by the action of any public official, agency, court or other entity having jurisdiction, NYPA and Customer shall have the right to withdraw from the Agreement. The withdrawal of any Customer shall not affect the right of any other Customer to remain bound by this Agreement.

XXII. Waiver

Any waiver at any time by either the Authority or the Customer of their rights with respect to a default or of any other matter arising out of this Agreement shall not be deemed to be a waiver with respect to any other default or matter. No waiver by either Party of any rights with respect to any matter arising in connection with this Agreement shall be effective unless made in writing and signed by the Party making the waiver.

XXIII. Execution

To facilitate execution, this Agreement may be executed in as many counterparts as may be required, and it shall not be necessary that the signatures of, or on behalf of, each Party, or that the signatures of all persons required to bind any Party, appear on each counterpart; but it shall be sufficient that the signature of, or on behalf of, each Party, or that the signatures of the persons required to bind any Party, appear on one or more of the counterparts. All counterparts shall collectively constitute a single agreement. It shall not be necessary in making proof of this Agreement to produce or account for more than a number of counterparts containing the respective signatures of, or on behalf of, all of the Parties hereto. The delivery of an executed counterpart of this Agreement as a PDF or similar file type transmitted via electronic mail, cloud-based server, e-signature technology or similar electronic means shall be legal and binding and shall have the same full force and effect as if an original executed counterpart of this Agreement had been delivered.

XXIV. Effectiveness of Agreement

This Agreement shall take effect on the Effective Date.

CUSTOMER

By: _____

_____
Authorized Officer's Title

Date: _____

(Seal)

Attested to by: _____

Accepted:

POWER AUTHORITY OF THE STATE OF NEW YORK

By: _____

_____
Authorized Officer's Title

Date: _____

(Seal)

Attested to by: _____

APPENDIX A

ALLOCATION INFORMATION

Firm and Peaking Hydroelectric Power and Energy Service pursuant to Service Tariff No. XX - X,XXX kW ("Contract Demand")

The Contract Demand described in this Appendix A represents the Customer's single system allocation as of the Effective Date. The Contract Demand includes the impact of all previous IEDP adjustments. NYPA will provide documentation to Customer of any future change(s) in Contract Demand in accordance with Article XV of this Agreement, but will not revise this Appendix. Customer's Contract Demand may change from time to time in accordance with this Agreement and Service Tariff No. XX.

APPENDIX B

HISTORICAL PREFERENCE HYDRO ALLOCATIONS WITHOUT IMPACTS OF INDUSTRIAL ECONOMIC DEVELOPMENT POWER ALLOCATIONS AND EFFICIENCY GAINS

To the extent practical and in accordance with Article IV of this Agreement, historical preference hydro allocations as of June 1989 without the impacts of IEDP allocations and efficiency gains of the Project as described within this Appendix B shall be utilized to allocate among the Customers, additional quantities of Firm Hydroelectric Peaking Power, Firm Hydroelectric Peaking Energy, and other newly developed or categorized classes of power and energy or other products that become available with changes in the electric system.

Customer	Allocation (kW)	Allocation (%)
Akron	7,800	1.0372%
Andover	1,400	0.1862%
Angelica	1,600	0.2128%
Arcade	24,200	3.2181%
Bath	13,500	1.7952%
Bergen	2,400	0.3191%
Boonville	12,900	1.7154%
Brocton	2,700	0.3590%
Castile	1,500	0.1995%
Churchville	3,400	0.4521%
Delaware	9,400	1.2500%
Endicott	9,300	1.2367%
Fairport	76,700	10.1995%
Frankfurt	3,400	0.4521%
Freeport	38,500	5.1197%
Green Island	2,500	0.3324%
Greene	6,800	0.9043%
Greenport	5,300	0.7048%
Groton	4,400	0.5851%
Hamilton	10,800	1.4362%
Holley	4,300	0.5718%
Ilion	12,800	1.7021%

APPENDIX B

Jamestown	73,700	9.8005%
Lake Placid	29,300	3.8963%
Little Valley	3,800	0.5053%
Marathon	4,100	0.5452%
Massena	22,800	3.0319%
Mayville	4,500	0.5984%
Mohawk	4,300	0.5718%
Oneida-Madison	3,500	0.4654%
Otsego	7,900	1.0505%
Penn Yan	11,800	1.5691%
Philadelphia	2,100	0.2793%
Plattsburgh	103,000	13.6968%
Richmondville	2,700	0.3590%
Rockville Centre	28,800	3.8298%
Rouses Point	13,900	1.8484%
Salamanca	13,000	1.7287%
Sherburne	12,900	1.7154%
Sherrill	11,700	1.5559%
Silver Springs	900	0.1197%
Skaneateles	5,100	0.6782%
Solvay	53,200	7.0745%
Spencerport	12,500	1.6622%
Springville	9,300	1.2367%
Steuben	12,600	1.6755%
Theresa	1,500	0.1995%
Tupper Lake	18,800	2.5000%
Watkins Glen	6,200	0.8245%
Wellsville	10,200	1.3564%
Westfield	12,300	1.6356%
Total	752,000	100.000%

APPENDIX C

FULL REQUIREMENTS CUSTOMERS - ZERO EMISSION CREDIT CHARGE

I. DEFINITIONS

When used with initial capitalization, whether singular or plural, the following terms, as used in this Appendix, shall have the meanings as set forth below. Capitalized terms not defined in this Schedule shall have the meaning ascribed to them elsewhere in the Agreement, in Service Tariff No. 38A, or in the Rules.

"Affected LSEs" has the meaning provided in Section II.2 of this Appendix C.

"CES Order" means the Order issued by the PSC entitled "Order Adopting a Clean Energy Standard, issued on August 1, 2016, in Case Nos. 15-E-0302 and 16-E-0270, and includes all subsequent orders amending, clarifying and/or implementing such Order or the RES.

"Full Requirements Customers ZEC Costs" has the meaning provided in Section II.4.b of this Appendix C.

"Government Action" has the meaning provided in Section II.7 of this Appendix C.

"Load Serving Entity" or "LSE", for the purpose of this Appendix, has the meaning provided in the CES Order.

"NYSERDA" means the New York State Energy Research and Development Authority.

"Public Service Commission" means the New York State Public Service Commission.

"Renewable Energy Standard" or "RES" means the Renewable Energy Standard adopted by the State in the CES Order.

"RES Compliance Program" means a program or initiative that the Authority has adopted for the purpose of meeting the RES for the load that the Authority serves under its power programs as authorized in the Power Authority Act.

"State Energy Plan" means the 2015 New York State Energy Plan as amended from time to time.

"Zero Emission Credit" or "ZEC" has the meaning provided in the CES Order.

APPENDIX C

"Zero Emission Credit Charge" or "ZEC Charge" means the charge to the Full Requirements Customer established in this Appendix C.

"ZEC Purchase Obligation" has the meaning provided in Section II.2 of this Appendix C.

"ZEC Program Year" has the meaning provided in Section II.2 of this Appendix C.

II. ZEC CHARGE

1. Notwithstanding any other provision of the Agreement, or any provision of Service Tariff No. 38A or the Rules, each Full Requirements Customer shall be subject to a ZEC Charge as provided in this Appendix C. The monthly ZEC Charge shall be in addition to all other charges, fees and assessments provided for in the Agreement, Service Tariff No. 38A and the Rules. By accepting Electric Service under the Agreement, each Full Requirements Customer agrees to pay the ZEC Charge.

2. As provided in the CES Order, the Public Service Commission, as part of the CES and Tier 3 of the Renewable Energy Standard, imposed an obligation on Load Serving Entities that are subject to the CES Order ("Affected LSEs") to purchase Zero Emission Credits from NYSERDA in an amount representing the Affected LSE's proportional share of ZECs calculated on the basis of the amount of electric load the LSE serves in relation to the total electric load served by all LSEs in the New York Control Area, to support the preservation of existing at risk nuclear zero emissions attributes in the State (the "ZEC Purchase Obligation"). The ZEC Purchase Obligation is implemented on the basis of program years running from April 1 through March 31 of each year ("ZEC Program Year").

3. The ZEC Charge is part of a RES Compliance Program that the Authority has adopted for the purpose of supporting the CES and Tier 3 of the RES and implementing Authority power programs in a manner that is consistent with the New York State Energy Plan. The Authority will comply with the CES and Tier 3 of the RES by applying a form of ZEC Purchase Obligation to the end-user load for which the Authority serves as LSE, including the load that the Authority serves to the Full Requirements Customers.

4. The ZEC Charge, which is intended to recover from each Full Requirements Customer the costs that the Authority incurs for purchasing ZECs in quantities that are attributable to each Full Requirements Customer's load served under this Agreement, will be determined and assessed to each Full Requirements Customer as follows:

a. The cost of the total ZEC Purchase Obligation for all LSEs in the New York Control Area, including the Authority as an Affected LSE, will be assessed pursuant to the methodology provided in the CES Order. The Authority will purchase its proportionate share of ZECs from NYSERDA based on the proportion of the forecasted total kilowatt-hours load served by the Authority (i.e., total Authority LSE load) in relation to the forecasted total kilowatt-hours load served by all LSEs in the New York Control Area as provided in the CES Order. The ZEC Purchase Obligations may be based on initial load forecasts with reconciliations made at the end of each ZEC Program Year by NYSERDA.

b. The Authority will allocate costs from its ZEC Purchase Obligation between its power programs/load for which it serves as load serving entity, including the Full Requirements Customers load that it serves (the "Full Requirements Customers ZEC Costs"). Such allocation will be based on the forecasted kilowatt-hours load of the Full Requirements Customers to be served by the Authority in relation to the forecasted total kilowatt-hours load served by the Authority (total Authority LSE load) for each ZEC Program Year. In addition, any balance resulting from the ZEC Program Year-end reconciliation of ZEC Purchase Obligations will be allocated to the Full Requirements Customers based on the proportion of the actual annual kilowatt-hours load served to such Full Requirements Customers to total actual annual kilowatt-hours load served by the Authority (total Authority LSE load).

c. The Authority will allocate a portion of the Full Requirements Customers ZEC Costs to each Full Requirements Customer as the ZEC Charge based on the proportion of each Full Requirements Customer's forecasted annual kilowatt-hours load to be purchased by the Full Requirements Customer to total kilowatt-hours load to be served by the Authority to the Full Requirements Customers (i.e., forecasted Full Requirements Customers level load). In addition, any balance resulting from the ZEC Program Year-end reconciliation of the ZEC Purchase Obligation referenced above will be passed through to the Full Requirements Customer based on the proportion of the Full Requirements Customer's actual annual kilowatt-hours load purchased under this Agreement to total actual annual kilowatt-hours load served to the Full Requirements Customers by the Authority (actual Full Requirements Customers level load). The ZEC Charge assessed to the Full Requirements Customers shall not include any costs resulting from the Authority's inability to collect a ZEC Charge from any other Authority customer.

5. The Authority may, in its discretion, include the ZEC Charge as part of the monthly bills for Electric Service as provided for in the Agreement, or bill each Full Requirements Customer for the ZEC Charge pursuant to another

Authority-established procedure. In either case, the ZEC Charge shall be billed monthly.

The Authority may, in consultation with affected Full Requirements Customers, but in its sole discretion modify the methodology used for determining the ZEC Charge and the procedures used to implement such ZEC Charge on a nondiscriminatory basis among affected Full Requirements Customers, upon consideration of such matters as Public Service Commission orders modifying or implementing the CES Order, guidance issued by the New York Department of Public Service, and other information that the Authority reasonably determines to be appropriate to the determination of such methodology. The Authority shall provide Full Requirements Customers with reasonable notice of any modifications to the methodology or procedures used to determine and implement the ZEC Charge.

6. Nothing in this Appendix shall limit or otherwise affect the Authority's right to charge or collect from the Full Requirements Customers any rate, charge, fee, assessment, or tax provided for under any other provision of the Agreement, or any provision of Service Tariff No. 38A or the Rules.

7. If the ZEC Purchase Obligation is modified or terminated by the Public Service Commission or other controlling governmental authority (collectively, "Government Action"), the Authority shall modify or terminate the ZEC Charge, and assess any additional charges or provide any credits to the Full Requirements Customers, to the extent that the Authority determines such actions are appropriate based on such Government Action.

APPENDIX D

FULL REQUIREMENTS CUSTOMERS – MONTHLY RENEWABLE ENERGY CREDIT CHARGE

I. DEFINITIONS

When used with initial capitalization, whether singular or plural, the following terms, as used in this Schedule, shall have the meanings as set forth below. Capitalized terms not defined in this Schedule shall have the meaning ascribed to them elsewhere in the Agreement, in Service Tariff No. 38A, or in the Rules.

"Alternative REC Compliance Program" has the meaning provided in Section III.1 of this Appendix D.

"Annual REC Percentage Target" has the meaning provided in Section II.2 of this Appendix D.

"CES Order" means the Order issued by the Public Service Commission entitled "Order Adopting a Clean Energy Standard, issued on August 1, 2016, in Case Nos. 15-E-0302 and 16-E-0270, and includes all subsequent orders amending, clarifying and/or implementing such Order or the RES.

"Clean Energy Standard" or "CES" means the Clean Energy Standard adopted by the State in the CES Order.

"Load Serving Entity", for the purpose of this Appendix, has the meaning provided in the CES Order.

"Mandatory Minimum Percentage Proportion" has the meaning provided in the CES Order.

"Monthly Renewable Energy Credit Charge" or "Monthly REC Charge" means the monthly charge to the Customer established in this Appendix D.

"NYSERDA" means the New York State Energy Research and Development Authority.

"Public Service Commission" means the New York State Public Service Commission.

"Renewable Energy Credit" or "REC" refers to a qualifying renewable energy credit as described in the CES Order.

"State Energy Plan" means the 2015 New York State Energy Plan as amended from time to time.

"RES Compliance Program" means a program or initiative that the Authority has adopted for the purpose of meeting the RES for the load that the Authority serves under its power programs as authorized in the Power Authority Act.

"Renewable Energy Standard" or "RES" means the Renewable Energy Standard adopted by the State in the CES Order.

"REC Compliance Measures" mean: (1) the Authority's procurement of RECs from NYSERDA in accordance with NYSERDA procedures and/or the CES Order; (2) the Authority's procurement of RECs from available REC markets; (3) the Authority's procurement of RECs from sources other than those identified in items (1) and (2) of this definition, including through a procurement process adopted by the Authority; and/or (4) any other measure that the PCS authorizes a Load Serving Entity to implement for the purpose of meeting the applicable Mandatory Minimum Percentage Proportion.

"Total Monthly Full Requirements Customers Load" has the meaning provided in Section II.3.b of this Appendix D.

"Total Monthly REC Costs" has the meaning provided in Section II.3.b of this Appendix D.

II. MONTHLY REC CHARGE

1. Notwithstanding any other provision of the Agreement, or any provision of Service Tariff No. 38A or the Rules, each Full Requirements Customer shall be subject to a Monthly REC Charge as provided in this Appendix D. The Monthly REC Charge is in addition to all other charges, fees and assessments provided in the Agreement, Service Tariff No. 38A and the Rules. By accepting Electric Service under the Agreement, each Full Requirements Customer agrees to pay the Monthly REC Charge assessed to it.

2. The Monthly REC Charge is part of a RES Compliance Program that the Authority has adopted for the purpose of complying with the CES and Tier 1 of the RES and implementing the power allocations and sales made under Authority power programs in a manner that is consistent with the New York State Energy Plan, pursuant to which the Authority will invest in new renewable generation resources to serve its customers. Such investments will be made through the procurement of RECs or other REC Compliance Measures in a manner that is intended to address the annual Mandatory Minimum Percentage Proportions as applied by the Authority to the total Full Requirements Customers load that the Authority will serve each calendar year (the "Annual REC Percentage Target") for the purpose of ultimately meeting the RES.

3. The Monthly REC Charge, which is intended to recover from each Full Requirements Customer costs that the Authority incurs for implementing REC Compliance Measures that are attributable to the load of each such Full Requirements Customer served under this Agreement, will be determined and assessed to the Customer as follows:

    a. The Authority shall have the right, for each calendar year to implement such REC Compliance Measures as it determines in its discretion to be appropriate for the purpose of meeting the Annual REC Percentage Target for the total Full Requirements Customers load that it will serve during such calendar year.

    b. The Authority will, for each month of each calendar year, calculate the total costs ("Total Monthly REC Costs") that the Authority has incurred or estimates that it will incur from implementing RES Compliance Measures for the purpose of meeting the Annual REC Percentage Target for the total Full Requirements Customers kilowatt-hour load for the month ("Total Monthly Full Requirements Customers Load"). The Total Monthly REC Costs may be calculated based on forecasts of the Total Monthly Full Requirements Customers Load that the Authority expects to serve for the month, or on a lagged basis based on the actual Total Monthly Full Requirements Customers Load that the Authority served for the month.

    c. Each month, the Authority will assess to each Full Requirements Customer, as a Monthly REC Charge, an amount which will represent the Full Requirements Customer's share of the Total Monthly REC Costs assessed to the Total Monthly Full Requirements Customers Load. The Monthly REC Charge will be assessed as the proportion of the Full Requirements Customer's total kilowatt-hours load served by the Authority for such month to the Total Monthly Full Requirements Customers Load served by the Authority for such month, provided, however, that:

        i. the Monthly REC Charge to the Customer shall not include any costs associated with the Authority's inability to collect the Monthly REC Charge from other Authority customers; and

        ii. the effective per-MWh rate of the Monthly REC Charge to the Customer averaged over the REC Program Year to which the Annual REC Percentage Target applies shall not exceed the per-MWh rate of a Monthly REC Charge based on NYSERDA's published REC price for the REC Program Year.

4. The Authority may, in its discretion, include the Monthly REC Charge as part of the monthly bills for Electric Service as provided for in the Agreement, or bill the Full Requirements Customers for the Monthly REC Charge pursuant

to another Authority-established procedure. In either case, the REC Charge shall be billed monthly.

5. The Authority will, at the conclusion of each calendar year in which it assesses a Monthly REC Charge, conduct a reconciliation process based on the actual costs that it incurred for REC Compliance Measures and actual load served for the year, compared with cost or load estimates or forecasts, if any, that the Authority used to calculate the Full Requirements Customer's Monthly REC Charges during the year. The Authority will issue a credit, or an adjusted final charge for the year, as appropriate, based on the results of such reconciliation process. Any such final charge shall be payable within the time frame applicable to the Authority's bills for Electric Service under this Agreement or pursuant to any other procedure established by the Authority pursuant to Section II.4 of this Appendix D.

6. Notwithstanding the provisions of Section II.3 of this Appendix D, if Electric Service for a Full Requirements Customer's Allocation is commenced after the Authority has implemented REC Compliance Measures for the year in which such Electric Service is commenced, and as a result the Full Requirements Customer's load cannot be accounted for in such REC Compliance Measures, the Authority may in its discretion implement separate REC Compliance Measures in order to meet the Annual REC Percentage Target for such Full Requirements Customer's load for the year, and bill the Full Requirements Customer for the costs associated with such separate REC Compliance Measures. For the avoidance of doubt, the reconciled annual REC Compliance Charge for a Full Requirements Customer can never exceed the Full Requirements Customer's total annual load multiplied by the Annual REC Percentage Target for that year multiplied by NYSERDA's published REC price for the REC Program Year.

7. Nothing in this Schedule shall limit or otherwise affect the Authority's right to charge or collect from the Customer, any rate, charge, fee, assessment, or tax provided for under any other provision of the Agreement, or any provision of Service Tariff No. 38A or the Rules.

III. ALTERNATIVE REC COMPLIANCE PROGRAM

1. Nothing in this Appendix D shall be construed as preventing the Parties from entering into other agreements for an alternative arrangement for the Authority to meet the Annual REC Percentage Target with respect to the Full Requirements Customer's Allocation, including but not limited to Customer self-supply of RECs, alternative REC compliance programs and cost allocation mechanisms, in lieu of the Monthly REC Charge provided in this Appendix D (collectively, "Alternative REC Compliance Program").

2. The Authority shall communicate at least biennially with the Full Requirements Customers concerning implementation of the RES Compliance Program and potential Alternative REC Compliance Programs, if any, that the Authority is offering or expects to offer.

APPENDIX E

JOINT CUSTOMER/NYPA TASK FORCES: POWERS AND DUTIES

1. The Implementation Task Force shall be composed of up to three representatives from each of NYPA and MEUA respectively and two representatives from NYAPP. The Implementation Task Force shall meet at a minimum, every six months. The Implementation Task Force shall also identify and assist those non-compliant Customers to stay on track prior to NYPA initiating any further actions to enforce the terms of the LTA. The Implementation Task Force shall have a defined, limited time period, of not less than six months, to encourage and support a corrective action plan that will ensure proper compliance. If within one month after the defined time period, the Customer has not completed a mutually agreeable corrective action plan, as between NYPA and the Customers, then NYPA reserves the right to direct the Customer to implement reasonable measures within a reasonable time frame and may, at NYPA's sole discretion, direct the use of the funds collected under Article III(b), supra, to satisfy the intent of this Appendix; provided, however, that NYPA shall first consult with the non-NYPA Implementation Task Force members prior to any such actions directing the Customer to implement such measures and use such funds in a manner consistent thereto. After the exhaustion of remedies by the Customer, NYPA's exclusive enforcement mechanism under this Appendix is to direct the collection of a 1 mil adder and to direct the Customer to spend such adder on a qualified program. Notwithstanding the foregoing, to the extent the Commission has jurisdiction over the Customer, such corrective action plans may be subject to Commission approval.

2. The Technology & Innovation Task Force shall be composed of up to three representatives from each of NYPA and MEUA respectively and two representatives from NYAPP, and may have additional members, including but not limited to the New York State Energy Research and Development Authority, the Electric Power Research Institute, the Large Public Power Council, and the Independent Energy Efficiency Program, as appropriate. The Technology & Innovation Task Force shall meet at a minimum, every six months. The Technology & Innovation Task Force will investigate and pursue as appropriate, technologies and innovations at the locus of New York State energy policy, Customer needs, and Authority leadership.

3. With NYPA's support, the Customers may pursue with best efforts additional funding resources (Federal and State) for all Customers to access in support of larger-scale and multi-Customer projects.

APPENDIX F

NEW YORK POWER AUTHORITY RATE STABILIZATION RESERVE METHODOLOGY

The Rate Stabilization Reserve ("RSR") is a rate making mechanism by which NYPA reconciles its actual annual cost of service and revenues to the projections used to set rates. The purpose is to reconcile the projected cost of service and associated revenues to actuals. The difference is then added to or subtracted from the reserve (the accumulation of previous annual differences). If the absolute value of the reserve exceeds $25MM, the excess will be charged or credited to Customers. The Parties recognize that the current RSR methodology may be changed if such change is deemed to be advantageous to the Parties. Any Party may propose changes to the RSR calculation method. Following notification of a proposed change, the Parties will engage in good faith discussions about the proposed change. It is presently calculated consistent with Service Tariff Nos. 38A and 39A regarding the Flow Adjustment Computation (FAC). The calculation (an example of which is included below) is described below:

1. Calculate the total Cost of Service (CoS) for the Niagara/St. Lawrence projects. Costs include: Operations and Maintenance, Relicensing Costs paid to others, post-employment benefits other than pensions (OPEBs), Indirect Overheads (Shared Services, Research and Development, debt service), Administrative and General Costs (A&G), and Capital Costs (using Trended Original Cost for equity funded and Original Cost for debt funded).

2. Reduce the CoS by any revenues arising from excess capacity (UCAP) sales to the ISO,[3] including calculated revenues associated with internal transfers of UCAP for NYPA's non-hydro customers, and accounting for UCAP adjustments for firm supply customers with locational capacity requirements. Normalized ReCharge NY customer UCAP sales are applied in the UCAP credit calculation.

3. Allocate costs to the demand function by multiplying the sum of the Customers' billed demands (entire 455 MW of Recharge NY Power, i.e., Normalized demand for ReCharge NY Customers) by the preference demand rate, which has been adjusted to include Ancillary Services production costs and UCAP sales revenue. This demand charge is used only for the purposes of calculating the RSR methodology.

4. Calculate the cost-based energy rate by dividing the remaining assigned costs (after allocation of costs to the demand function) by the annual metered generation.

[3] As part of the CoS, NYPA will track the amount of excess UCAP and associated revenues from the Niagara/St. Lawrence projects that is sold in the various ISO auction markets.

5. Calculate the difference between the cost-based energy rate and the billed preference energy rate.

6. Multiply the difference in the rates by the actual annual billed preference energy sales to determine the annual change in the RSR.

7. Add the annual change to the RSR balance from the prior year-end to get the current year-end RSR balance.

8. If the current year-end balance is in excess of +/- $25 million, the excess would be subject to a credit or a surcharge in the subsequent rate year.

APPENDIX F

RSR EXAMPLE

NEW YORK POWER AUTHORITY
HYDROELECTRIC PROJECTS
RATE STABILIZATION RESERVE (RSR) COMPUTATION
@ DECEMBER 31, 2016

Line NO.	DESCRIPTION	YEAR ENDING 2015	CURRENT YEAR 2016
	COST OF SERVICE (COS) ($000)		
1	TOTAL COS		290,568
2	UCAP CREDIT		(32,457)
3	NET COS		258,111
4	DEMAND 1/		155,590
5	ENERGY 2/		102,522
	GENERATION (GWH)		
6	LONG TERM AVERAGE		20,226
7	ANNUAL NET GENERATION		21,695
	ENERGY RATE (MILLS/KWH)		
8	@ LONG TERM AVERAGE GENERATION 3/		5.07
9	@ ANNUAL NET GENERATION 4/		4.73
10	RATE IN EFFECT (MILLS/KWH)		4.92
11	RATE DIFFERENTIAL 5/		0.19
12	ANNUAL PREFERENCE SALES (GWH)		6,869
13	TOTAL FOR YEAR 6/		1,305
14	ADJUSTMENT TO RSR		
15	RSR BALANCE @ YEAR END 7/	(8,225)	(6,920)

1/	The demand charge is a weighted average of the January-April and May-December periods, inclusive of the projected ancillary service costs that were removed using the methodology from the 2003 rate action.
2/	Line (3) – line (4)
3/	Line (5) / (6).
4/	Line (5) / (7).
5/	Line (10) – (9).
6/	Line (11) * (12).
7/	Line (13) + line (15) [prior-year balance] + line (14) adjustment.
	Amounts shown in this RSR example were rounded for display purposes, but calculations were performed using more precise figures.



POWER AUTHORITY OF THE STATE OF NEW YORK
30 SOUTH PEARL STREET
ALBANY, NY 12207

Electric Service Tariff for Full Requirements Municipal and Rural Electric Cooperative Systems Firm and Peaking Hydroelectric Power Service

Service Tariff No. 38A

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Schedule of Rates for Firm and Peaking Hydroelectric Power and Energy Service

I. Applicability

For wholesale sales of Project Firm and Peaking Hydroelectric Power and Energy (terms as defined below) to Full Requirements Municipal and Rural Electric Cooperative Systems (terms as defined below) in New York State.

II. Abbreviations and Terms

A. The following abbreviations are used:

kW	kilowatt(s)
kWh	kilowatt-hour(s)

B. The term “Agreement” means an executed written agreement between Customer and Authority for the sale of Niagara Project Power and Energy.

C. The term “Authority” means the Power Authority of the State of New York, a corporate municipal instrumentality and political subdivision of the State of New York as defined in the Agreement.

D. The term “Billing Demand” has the meaning set forth in Section III of this Service Tariff.

E. The term “Billing Period” has the meaning set forth in Section III of this Service Tariff.

F. The term “Contract Demand” has the meaning set forth in Section III of this Service Tariff.

G. The term “Customer” means any of the Full Requirements Municipal and Rural Electric Cooperative Systems located within the State of New York identified as a counter-party in an Agreement with Authority.

H. The term “Firm Hydroelectric Power” means capacity (kW) from the Project including the capacity adjustments necessary to meet the Installed Reserve Margin set by the New York State Reliability Council intended to be available at all times except for limitations provided in the Agreement, the Service Tariff or Rules and subject further to limitations provided in the NYISO Tariffs or applicable rules as they may be modified from time to time. Firm Hydroelectric Power shall not include peaking power.

I. The term “Firm Hydroelectric Energy” means energy (kWh) associated with Firm Hydroelectric Power as defined in the Agreement.

J. The term “Firm Hydroelectric Peaking Power” means additional capacity (kW) from Project as defined in the Agreement.

K. The term “Firm Hydroelectric Peaking Energy” means energy (kWh) associated with Firm Hydroelectric Peaking Power supplied at 12.5% monthly load factor.

L. The term “Full Requirements” means all of a Customer’s power and energy requirements. As used in this Service Tariff, a Full Requirements Customer purchases all of its power and energy requirements from Authority.

M. The term “Load Factor Share” (“LFS”) has the meaning defined within Section IV of this Service Tariff.

N. The term “Load Serving Entity” (“LSE”) has the meaning set forth in the Agreement, consistent with the NYISO Tariffs as may be modified from time to time.

O. The term “Municipal and Rural Electric Cooperative Systems” means the public bodies and nonprofit cooperatives located in New York State eligible to be served by Authority under the Niagara Redevelopment Act, 16 U.S.C. § 836, *et seq.*

P. The term “NYISO” refers to the New York Independent System Operator, Inc. or any successor organization.

Q. The term “NYISO Tariffs” means the NYISO’s Open Access Transmission Tariff (“OATT”) or the NYISO’s Market Administration and Control Area Services Tariff, as applicable, or any successor tariffs to such NYISO Tariffs.

R. The term “Project” means the Authority’s Niagara Power Project.

S. The term “Rules” means Authority's Rules and Regulations (Chapter X of Title 21 of the Official Compilation of Codes, Rules and Regulations of the State of New York), as applicable, as now in effect and as may be later amended from time to time by Authority.

T. The term “Service Tariff” means this Service Tariff No. 38A.

U. The term “Transmission Service Charge” (“TSC”) has the meaning set forth in the NYISO Tariffs, as such definition may be modified from time to time.

III. Monthly Rates and Charges

A. Monthly Base Rates

The monthly demand and energy charges paid by Customers to Authority shall be based on the preference power rates charged by Authority, as shown below.

Effective Date	Demand Rate $/kW-month	Energy Rate Mills/kWh
5/1/2018 until superseded	4.07	4.92

B. Monthly Demand Charge

The product of the demand rate set forth above and the Billing Demand.

C. Monthly Energy Charge

The product of the energy rate set forth above and the amount of energy provided under this Service Tariff.

D. Contract Demand

The maximum hydroelectric kilowatts contracted for in the Agreement, as measured at Authority's generating station switchyards.

E. Billing Demand

The Billing Demand under this service tariff shall be the lesser of (a) the Contract Demand, or (b) Customer's highest 30-minute integrated demand measured during the billing period, adjusted for losses.

F. Billing Period

Any period of approximately thirty (30) days, generally ending with the last day of each calendar month.

G. NYISO Transmission and Related Charges ("NYISO Charges")

Unless otherwise stated in the Agreement, Customer shall compensate the Authority for the following NYISO Charges assessed on the Authority, if any, for services provided by the NYISO pursuant to the NYISO Tariffs (as the provisions of those tariffs maybe amended and in effect from time to time) with respect to power service to Customer under this Service Tariff:

1. Ancillary Services 1 through 6 and any new ancillary services as may be defined and included in the NYISO Tariffs from time to time;

2. Marginal losses;

3. The New York Power Authority Transmission Adjustment Charge ("NTAC");

4. Congestion costs, less any associated grandfathered Transmission Congestion Contracts ("TCCs") as provided in Attachment K of the NYISO OATT;

5. Any TSC assessed upon Authority by the local utility;

6. Any and all other charges, assessments or other amounts associated with deliveries to Customer or otherwise associated with the Authority's responsibilities as agent for the Customer in the performance of LSE functions that are assessed on the Authority by the NYISO under the provisions of NYISO Tariffs or under other applicable tariffs; and

7. Any charges assessed on the Authority for facilities needed to maintain reliability or incurred in connection with the NYISO's Comprehensive System Planning Process (including both economic projects and reliability backstop projects) with respect to power service to Customer under this Service Tariff, or required to be paid by the Authority in accordance with law, whether charged by the NYISO or some other third party.

The NYISO Charges in this section, if applicable, are in addition to the Authority production charges that are charged to the Customer in accordance with other provisions of this Service Tariff.

H. Resale of Power and Energy

Customer agrees that in reselling power and energy purchased from Authority under this Service Tariff that the benefits of such power and energy will be made available to the extent practicable to all retail consumers located within Customer's service area on a nondiscriminatory basis as may be approved by Authority.

I. Taxes and Other Charges

The charges under this Service Tariff shall be subject to adjustment as Authority deems necessary to recover from Customer any rates, taxes, assessments charged to Authority or any other charges mandated by federal, state and local agencies that are levied on Authority or that Authority is required to collect from its Customer if and to the extent such rates, charges, taxes or assessments are not recovered by Authority pursuant to another provision of this Service Tariff.

IV. General Provisions

General Provisions for service supplementing or modifying the Rules and this Service Tariff with regard to deliveries to Customer are as follows:

A. Character of Service

Alternating current, 60 hertz, three-phase or as may be required by Customer.

B. Allocation of Energy

1. For Firm Service

The kilowatt-hours of Firm Hydroelectric Energy associated with the Customer's allocation of Firm Hydroelectric Power provided to Customer under this Service Tariff shall be quantified using the LFS methodology as follows:

a. For every hour of the Billing Period, the Customer receives hydropower energy (Firm Hydroelectric Energy) equal to the hourly metered load multiplied by the ratio of Customer's Contract Demand divided by the maximum hourly metered demand recorded in a given Billing Period, such ratio not to exceed the value of 1.

b. When the maximum hourly metered demand for the Billing Period is less than or equal to the Contract Demand, all of the Customer's metered load will be supplied by Firm Hydroelectric Energy.

c. When the maximum hourly metered demand for the Billing Period is greater than the Contract Demand, the portion of the Customer's metered load to be supplied by Firm Hydroelectric Energy is the sum of the values, for each hour of the Billing Period, of the Contract Demand divided by the maximum hourly metered demand in the Billing Period multiplied by the hourly metered energy consumption.

d. All demand values will be adjusted for losses.

2. For Firm Peaking Service

Authority shall normally supply Firm Hydroelectric Peaking Power & Energy to Customer at 12.5 percent (12.5%) monthly load factor.

3. Adverse Water Condition

Consistent with the Agreement, in the event of an Adverse Water Condition, the Authority may reduce the amount of Firm and Peaking Hydroelectric Power and Energy provided to Customer under this Service Tariff to an amount below such normal level, reductions shall be applied to all Customers served under this Service Tariff in proportion to their relative allocations of Firm and Peaking Hydroelectric Power and Energy.

C. Adjustment of Rates

The rates for power and energy contained in this Service Tariff may be revised by Authority from time to time in accordance with the Rules.

D. Adjustment of Charges

1. Transformer Losses

If delivery is made at transmission voltage but metered on the low side of Customer's substation, the meter readings will be adjusted by an amount based on the manufacturer's actual test report for such transformer or for a transformer of similar age and type, or in the absence of such test reports, by two percent to compensate for transformer losses.

2. Power Factor

There is no Power Factor adjustment of charges. Customer shall maintain a power factor at the point of delivery of not less than 90 percent lagging or leading.

E. Construction, Operation and Maintenance of Customer’s Power Systems

For purposes herein, Customer's power system shall mean the power system of Customer and of any purchaser, transmitter or distributor designated by Customer to receive or handle the power contracted for herein, and for the purposes of this Provision, Authority's power system shall mean all facilities over which power and energy are delivered to Customer or Customer's local utility, whether or not owned by Authority.

Customer shall construct, operate and maintain its power system and/or electrical equipment in a manner which will not interfere with any service supplied from Authority's power system. If, after reasonable notice of an unsatisfactory condition on Customer's power system, which interferes or may interfere with any service supplied from Authority's power system, Customer fails or refuses to cause such changes to be made as may be necessary to eliminate such unsatisfactory condition, Authority may discontinue furnishing electric service to Customer so long as such interference exists. Such a discontinuance of electric service will not relieve Customer of liability for the monthly charges provided for herein during the term said electric service is so discontinued. Nothing in this paragraph shall be construed to render Authority liable for any claims, demands, costs, losses, causes of action, damages, or liability of whatsoever kind or nature arising out of or resulting from the construction, operation or maintenance of Customer's power system.

F. Payment by Customer for Firm and Peaking Hydroelectric Power and Energy

Bills computed under this Service Tariff are due and payable by electronic wire transfer in accordance with the Rules. Such wire transfer shall be made to J P Morgan Chase NY, NY / ABA021000021 / NYPA A/C # 008-030383, unless otherwise indicated in writing by Authority. In the event that there is a dispute on any items of a bill rendered by Authority, Customer shall pay such bill in full. If necessary, any adjustments will be made thereafter.

G. Conflicts

In the event of any inconsistencies, conflicts or differences between the provisions of this Service Tariff and the Rules, the provisions of this Service Tariff shall govern. In the event of any inconsistencies, conflicts or differences between the provisions of this Service Tariff and the Agreement, the provisions of the Agreement shall govern.

V. Flow Adjustment Computation ("FAC")

The energy charges under this Service Tariff and the applicable Service Tariffs associated with the St. Lawrence Hydroelectric Project, in the aggregate, are subject to a credit or surcharge pursuant to a FAC in any rate year following a calendar year for which the Hydroelectric Project Rate Stabilization Reserve ("RSR") is greater than $+25 million, or less than $-25 million, respectively. The RSR will be used to ensure rate stability and cost recovery and its level will be determined and any credit or surcharge for the succeeding rate year will be calculated after the prior calendar year's costs and generation levels are known. Any credit or surcharge will be applied on a uniform basis to the monthly billing statements rendered pursuant to this Service Tariff during the succeeding rate year.

The FAC is inapplicable in any rate year succeeding a calendar year at the end of which the RSR is within the $+25 million to $-25 million range. If at the end of any calendar year, the RSR is determined to exceed $+25 million, such excess amount will be credited pro-rata to Customers during the succeeding rate year pursuant to the FAC. If the RSR at the end of any calendar year is determined to be less than $-25 million, the difference below $-25 million will be surcharged pro-rata to Customers during the succeeding rate year pursuant to the FAC.

To the extent that there is a balance in the RSR (positive or negative) on the effective date of service under the applicable Agreement, arising out of service under a prior agreement for the sale of Project power and energy, that RSR balance shall be carried forward and maintained as the balance as of the effective date of service under such applicable Agreement.

POWER AUTHORITY OF THE STATE OF NEW YORK
30 SOUTH PEARL STREET
ALBANY, NY 12207

Electric Service Tariff for Partial Requirements Municipal and Rural Electric Cooperative Systems Firm and Peaking Hydroelectric Power Service

Service Tariff No. 39A

Date of Issue: May 1, 2017

Date Effective: May 2017 Bill Period

Issued by Keith T. Hayes, Vice President
Power Authority of the State of New York
30 South Pearl Street, Albany, NY 12207

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Schedule of Rates for Firm and Peaking Hydroelectric Power and Energy Service

I. Applicability

For wholesale sales of Project Firm and Peaking Hydroelectric Power and Energy (terms as defined below) to Partial Requirements Municipal and Rural Electric Cooperative Systems (terms as defined below) in New York State.

II. Abbreviations and Terms

A. The following abbreviations are used:

kW	kilowatt(s)
kWh	kilowatt-hour(s)

B. The term “Agreement” means an executed written agreement between Customer and Authority for the sale of Niagara Project Power and Energy.

C. The term “Authority” means the Power Authority of the State of New York, a corporate municipal instrumentality and political subdivision of the State of New York as defined in the Agreement.

D. The term “Billing Demand” has the meaning set forth in Section III of this Service Tariff.

E. The term “Billing Period” has the meaning set forth in Section III of this Service Tariff.

F. The term “Contract Demand” has the meaning set forth in Section III of this Service Tariff.

G. The term “Customer” means any of the Partial Requirements Municipal and Rural Electric Cooperative systems located within the State of New York identified as a counter-party in an Agreement with Authority.

H. The term “Firm Hydroelectric Power” means capacity (kW) from the Project including the capacity adjustments necessary to meet the Installed Reserve Margin set by the New York State Reliability Council intended to be available at all times, except for limitations provided in the Agreement, Service Tariff or Rules, and subject further to limitations provided in the NYISO Tariffs or applicable rules as they may be modified from time to time. Firm Hydroelectric Power shall not include peaking power.

I. The term “Firm Hydroelectric Energy” means energy (kWh) associated with Firm Hydroelectric Power as defined in the Agreement.

J. The term “Firm Hydroelectric Peaking Power” means additional capacity (kW) from Project as defined in the Agreement.

K. The term “Firm Hydroelectric Peaking Energy” means energy (kWh) associated with Firm Hydroelectric Peaking Power supplied at 12.5% monthly load factor.

L. The term “Load Serving Entity” (“LSE”) has the meaning set forth in the Agreement, consistent with the NYISO Tariffs, as may be modified from time to time.

M. The term “Municipal and Rural Electric Cooperative Systems” means the public bodies and nonprofit cooperatives located in New York State eligible to be served by Authority under the Niagara Redevelopment Act, 16 U.S.C. § 836, et seq.

N. The term “NYISO” refers to the New York Independent System Operator, Inc. or any successor organization.

O. The term “NYISO Tariffs” means the NYISO’s Open Access Transmission Tariff (“OATT”) or the NYISO’s Market Administration and Control Area Services Tariff, as applicable, or any successor tariffs to such NYISO Tariffs.

P. The term “Partial Requirements” as used in this Service Tariff to describe Customer, means that Customer does not purchase all of its power and energy requirements from Authority.

Q. The term “Project” means Authority’s Niagara Power Project.

R. The term “Rules” means Authority's Rules and Regulations (Chapter X of Title 21 of the Official Compilation of Codes, Rules and Regulations of the State of New York), as applicable, as now in effect and as may be later amended from time to time by Authority.

S. The term “Service Tariff” means this Service Tariff No. 39A.

T. The term “Transmission Service Charge” (“TSC”) has the meaning set forth in the NYISO Tariffs, as such definition may be modified from time to time.

III. Monthly Rates and Charges

A. Monthly Base Rates

The monthly demand and energy charges paid by Customers to Authority shall be based on the preference power rates charged by Authority, as shown below.

Effective Date	Demand Rate $/kW-month	Energy Rate Mills/kWh
5/1/2018 until superseded	4.07	4.92

B. Monthly Demand Charge

The product of the demand rate set forth above and the Billing Demand.

C. Monthly Energy Charge

The product of the energy rate set forth above and the amount of energy provided under this Service Tariff.

D. Contract Demand

The maximum amount of hydroelectric kilowatts contracted for in the Agreement, as such amount may be modified from time to time pursuant to the terms of the Agreement, as measured at Authority's generating station switchyards.

E. Billing Demand

The Billing Demand shall be the lesser of (a) the hydroelectric Contract Demand, or (b) Customer's highest 30-minute integrated demand measured during the Billing Period, adjusted for losses.

F. Billing Period

Any period of approximately thirty (30) days, generally ending with the last day of each calendar month.

G. NYISO Transmission and Related Charges ("NYISO Charges")

Each Customer is directly responsible for NYISO Charges because either it 1) is its own Load Serving Entity, or 2) has made provisions for a third party to perform LSE functions on its behalf. Authority is not responsible for NYISO Charges related to sales of Project Firm and Peaking Hydroelectric Power and Energy to the Partial Requirements Municipal and Rural Electric Cooperative Systems under this Service Tariff. Should these arrangements cease, and no new arrangements for (1) or (2) be made and instead Authority assumes the role of performing Load Serving Entity functions for any Customer receiving power service under this Service Tariff, the Customer shall compensate Authority for the following NYISO Charges if assessed on the Authority for services provided by the NYISO pursuant to the NYISO Tariffs(as the provisions of those tariffs maybe amended and in effect from time to time) with respect to power service to Customer under this Service Tariff, provided however, that such compensation shall be consistent with all provisions of the Agreement between Authority and Customer:

1. Ancillary Services 1 through 6 and any new ancillary services as may be defined and included in the NYISO Tariffs from time to time;

2. Marginal losses;

3. The New York Power Authority Transmission Adjustment Charge ("NTAC");

4. Congestion costs, less any associated grandfathered Transmission Congestion Contracts ("TCCs") as provided in Attachment K of the NYISO OATT;

5. Any TSC assessed upon Authority by the local utility;

6. Any and all other charges, assessments or other amounts associated with deliveries to Customer that are assessed on Authority by the NYISO under the provisions of the NYISO Tariffs or under other applicable tariffs; and

7. Any charges assessed on Authority for facilities needed to maintain reliability or incurred in connection with the NYISO's Comprehensive System Planning Process (including both economic projects and reliability backstop projects) with respect to power service to Customer under this Service Tariff, or required to be paid by Authority in accordance with law, whether charged by the NYISO or some other third party.

The NYISO Charges in this section, if applicable, are in addition to Authority production charges that are charged to Customer in accordance with other provisions of this Service Tariff.

H. Taxes and Other Charges

The charges under this Service Tariff shall be subject to adjustment as Authority deems necessary to recover from Customer any rates, taxes, assessments charged to Authority or any other charges mandated by federal, state and local agencies that are levied on Authority or that Authority is required to collect from its Customer if and to the extent such rates, charges, taxes or assessments are not recovered by Authority pursuant to another provision of this Service Tariff.

IV. General Provisions

General Provisions for service supplementing or modifying the Rules and this Service Tariff with regard to deliveries to Customer are as follows:

A. Character of Service

Alternating current, 60 hertz, three-phase or as may be required by Customer.

B. Allocation of Energy

1. For Firm Service

The kilowatt-hours allocated to Customer under this Service Tariff during a Billing Period shall be the amount scheduled for the Billing Period up to a maximum of the product of (a) the Billing Demand, (b) the number of hours in the Billing Period and (c) Customer's system load factor for the corresponding billing period in the previous year.

2. For Firm Peaking Service

Authority shall normally supply Firm Hydroelectric Peaking Power & Energy to Customer at 12.5 percent (12.5%) monthly load factor.

3. Adverse Water Condition

Consistent with the Agreement, in the event of an Adverse Water Condition, the Authority may reduce the amount of Firm and Peaking Hydroelectric Power and Energy provided to Customer under this Service Tariff to an amount below such normal level, reductions shall be applied to all Customers served under this Service Tariff in proportion to their relative allocations of Firm and Peaking Hydroelectric Power and Energy.

C. Energy Scheduling

Subject to the provisions of Authority Partial Requirements Customer Scheduling and Reconciliation Procedures ("the Procedures") which may be modified by Authority from time to time pursuant to the Agreement, Customer may schedule during Billing Period an amount of energy equaling up to the product of (a) the Contract Demand, (b) the number of hours in the Billing Period and (c) Customer's system load factor for the corresponding billing

period in the previous year. Over-scheduled energy shall be reconciled in accordance with the Procedures.

Customer will use Good Utility Practices (as defined in section D herein) to ensure that it does not schedule in any hour more energy than the lesser of Customer's load in such hour, adjusted for losses, or Customer's Contract Demand. Over the course of a billing period, Customer will use Good Utility Practices to ensure that it does not schedule more energy than the lesser of Customer's total monthly energy requirements, adjusted for losses, or Customer's energy entitlement for the Billing Period as determined in the foregoing Section IV,B entitled "Allocation of Energy".

In the event that the amount of energy scheduled by Customer in any hour during the Billing Period exceeds the "highest 30-minute integrated demand" referenced in the foregoing Section III-E entitled "Billing Demand", then for purposes of computing the Billing Demand, the highest hourly schedule submitted by Customer for the Billing Period shall be deemed to be the highest 30-minute integrated demand measured during the Billing Period, adjusted for losses.

D. Good Utility Practices

For the purposes of this Service Tariff, "Good Utility Practices" shall mean any of the practices, methods and acts engaged in or accepted by the NYISO or its successor, the Northeast Power Coordinating Council ("NPCC"), the North American Electric Reliability Corporation ("NERC") and a significant portion of the electric utility industry ("Industry") at the time the decision was made, which would have been expected to accomplish the desired result at a reasonable cost given the circumstances, consistent with the NYISO's, the NPCC's, the NERC's and the Industry's standards and practices for economy, reliability, safety and expedition with due regard for the protection of the environment. Good Utility Practices are not intended to be limited to the optimum practices, methods or acts to the exclusion of all others, but rather to a spectrum of possible practices, methods or acts engaged in or accepted by the NYISO, NPCC, NERC and Industry at the time the decision was made. Should there be conflicts between the practices, methods and acts of the NYISO, NPCC and NERC versus the Industry, the NYISO, NPCC and NERC standards and practices shall prevail.

E. Payment by Customer for Firm and Peaking Hydroelectric Power and Energy

Bills computed under this Service Tariff are due and payable by electronic wire transfer in accordance with the Rules. Such wire transfer shall be made to J P Morgan Chase NY, NY / ABA021000021 / NYPA A/C # 008-030383, unless otherwise indicated in writing by Authority. In the event that there is a dispute on any items of a bill rendered by Authority, Customer shall pay such bill in full. If necessary, any adjustments will be made thereafter.

F. Conflicts

In the event of any inconsistencies, conflicts or differences between the provisions of this Service Tariff and the Rules, the provisions of this Service Tariff shall govern. In the event of any inconsistencies, conflicts or differences between the provisions of this Service Tariff and the Agreement, the provisions of the Agreement shall govern.

V. Flow Adjustment Computation ("FAC")

The energy charges under this Service Tariff and the applicable Service Tariffs associated with the St. Lawrence Hydroelectric Project, in the aggregate, are subject to a credit or surcharge pursuant to a FAC in any rate year following a calendar year for which the Hydroelectric Project Rate Stabilization Reserve ("RSR") is greater than $+25 million, or less than $-25 million, respectively. The RSR will be used to ensure rate stability and cost recovery and its level will be determined and any credit or surcharge for the succeeding rate year will be calculated after the prior calendar year's costs and generation levels are known. Any credit or surcharge will be applied on a uniform basis to the monthly billing statements rendered pursuant to this Service Tariff during the succeeding rate year.

The FAC is inapplicable in any rate year succeeding a calendar year at the end of which the RSR is within the $+25 million to $-25 million range. If at the end of any calendar year, the RSR is determined to exceed $+25 million, such excess amount will be credited pro-rata to Customers during the succeeding rate year pursuant to the FAC. If the RSR at the end of any calendar year is determined to be less than $-25 million, the difference below $-25 million will be surcharged pro-rata to Customers during the succeeding rate year pursuant to the FAC.

To the extent that there is a balance in the RSR (positive or negative) on the effective date of service under the applicable Agreement, arising out of service under a prior agreement for the sale of Project power and energy, that RSR balance shall be carried forward and maintained as the balance as of the effective date of service under such applicable Agreement.

Exhibit "A"
March 26, 2019

Applicants Recommended for an Award of Fund Benefits by the Western NY Proceeds Allocation Board

Line	Business	City	County	Economic Development Region	Project Description	Project Type	Recommended Award Amount	Total Project Cost	Jobs Retained	Jobs Created
1	Hauptman-Woodward Medical Research Institute, Inc.	Buffalo	Erie	Western NY	Expansion	Innovation/Entrepreneur	$1,000,000	$4,997,408	N/A	N/A
						Total:	**$1,000,000**	**$4,997,408**	**N/A**	**N/A**

Total Jobs Created & Retained: N/A

NEW YORK STATE OF OPPORTUNITY. Western NY Power Proceeds Allocation Board

Western New York Economic Development Fund Recommendation Memo

EXHIBIT A-1
MARCH 26, 2019

Applicant Name:	Hauptman-Woodward Medical Research Institute, Inc. ("HWI")	REDC Region:	Western New York
Project Type:	Innovation/Entrepreneur	County:	Erie
Industry:	Medical Research & Development	Locality:	Buffalo
Amount Requested:	$1,000,000	Start Date:	January 1, 2019
		Finish Date:	December 31, 2019

RECOMMENDED OFFER	
Recommended Total Award:	$1,000,000
Total Project Cost:	$4,997,408
% of Project Cost Recommended:	20%

PROJECT BUDGET (Proposed by Applicant)

Use of funds	Amount	Source of Funds	Amount
CE Microscope/Sample Prep Tools	$2,446,183	WNY EDF	$1,000,000
Salaries & Wages	$659,725	**Committed:**	
Battery Support System & Eng.	$609,000	ESD CFA	$1,200,000
Building Infrastructure	$503,000	HWI (Equity)	$560,000
Working Capital	$310,000	Margaret Wendt Foundation	$450,000
Supplies & Materials	$205,000	James Cummings Foundation	$300,000
Architectural Renderings	$120,000	M&T Foundation	$200,000
Furniture & Fixtures	$114,500	Seymour Knox Foundation	$60,000
Demolition (Space Retrofit)	$30,000	Peter Cornell Trust	$5,000
		Potential:	
		John Oshei Foundation	$1,000,000
		Key Bank Foundation	$200,000
		Montgomery Family Foundation	$25,000
		Patrick Lee Foundation	$25,000
		Less: Allowance for Request Rejection	($27,592)
Total:	**$4,997,408**	**Total:**	**$4,997,408**

REGIONAL IMPACT MEASUREMENTS	
Job Commitments:	The Funding Track under which the application was submitted does not require job-related impact.
Average Salary of Jobs:	

NEW YORK STATE OF OPPORTUNITY. Western NY Power Proceeds Allocation Board

Western New York Economic Development Fund Recommendation Memo

EXHIBIT A-1
MARCH 26, 2019

Indirect Jobs Created			
Other Impact			
PROJECT DESCRIPTION (Adapted from Application)			
HWI seeks to establish a Center for Therapeutic Interactions at its current location that will offer Cryo-electron microscopy based research ("Cryo-EM") and a unique related suite of complimentary services. Cryo-EM is a cutting-edge biomedical method that enables researchers to investigate molecules using an approach that greatly enhances the successful research of potential drug targets. The project also includes installation of an on-site, lithium ion battery that will be used to reduce electricity costs and divert its production from a diesel generator.			
OTHER ECONOMIC DEVELOPMENT BENEFITS RECEIVED			
ESD:	$1,200,000 CFA Grant		
Economic Dev. Loan:		Other:	

PREVIOUS STATE ASSISTANCE OFFERED OR PROVIDED		
TYPE	**AMOUNT**	**STATUS**
N/A	$	

BASIS FOR RECOMMENDATION

HWI has a long history in WNY and excellent reputation in the field of medical research that is predicated upon Nobel award winning research methods. Bringing to Buffalo instruments that offer leading edge research proven to increase drug discovery success rates from ~20% to 80% and accelerate discovery time from decades to, at times, less than 18 months, will increase the region's national and global presence among major pharmaceutical companies and research firms and foster entrepreneurship. The proposed facility would be one of only two in the world to provide the full range of Cryo-EM based services needed to both prepare experiments and analyze results.

The project also supports:

- Development on the Buffalo Niagara Medical Campus, which is located in one of three "Strategic Investment Corridors" identified in Buffalo's Comprehensive Plan;
- Job creation in WNY's healthcare sector, which represents 11% of the region's economy;
- A unique approach to energy delivery that would use storage to create a cleaner, more resilient energy infrastructure resulting in cost savings and less burden on the current electric assets;



Western New York Economic Development Fund Recommendation Memo

EXHIBIT A-1
MARCH 26, 2019

- Facilities that would serve the recently established Empire Discovery Institute (U of R, UB, Roswell) collaboration to accelerate drug development in the Niagara/Finger Lakes region;
- An organization with a history of providing access to higher education, STEM based economic opportunities to underrepresented groups.

The initiative was identified as a 2018 priority project for WNYREDC and as such, aligns well with regional strategies and priorities.

ANTICIPATED DISBURSEMENT TERMS

Fund Benefits would be used to reimburse the applicant for a portion of costs associated with the battery, machinery and equipment purchases and some other project costs. It is anticipated that funds will be disbursed in arrears upon project completion. Payment will be made upon presentation to NYPA of invoices and such other documentation acceptable to NYPA verifying the applicant has incurred eligible expenses of approximately $4.997M.

Western NY Power Proceeds Allocation Board

Criteria adapted from the Western NY Power Proceeds Allocation Board's "Procedures for the Review of Applications for Fund Benefits"

1. The extent to which an award of Fund Benefits would be consistent with the strategies and priorities of the Regional Economic Development Council ("REDC") having responsibility for the region in which an Eligible Project is located.[1] The Western New York Regional Economic Development Council which is responsible for Eligible Projects in Erie and Niagara Counties Strategies & Priorities are:

   - Promote "Smart Growth" by investing in areas that infrastructure already exists and achieves certain goals, such as: preserving historic buildings; reviving downtowns; reviving main streets; investing in existing neighborhoods; and investing in former industrial sites. A project consistent with Smart Growth will also focus on: enhancing walkability; enhancing multiple modes of transportation; connecting disadvantaged communities to employment clusters; spurring mixed-use private investment in existing communities and preserving/enhancing natural lands and or resources.
   - Promote workforce development by increasing diversity in the labor force, developing and cultivating that includes workers with advancement potential, underemployed, unemployed and special population; align education and skills training to job market for current and future industry needs.
   - Foster entrepreneurship and new business formation and growth. Designing a plan that brings new technologies and/or products to the marketplace, increases new start ups in strategic industries and facilitates the commercialization of products that can lead to job growth in the Region.
   - Increase the industry profile of agriculture in WNY by: creating better access to markets; creating new products; creating new more efficient processes; creating strong regional brands; creating programs that promote careers in agriculture.
   - Utilize Western New York's proximity to Canadian and U.S. population centers to advance economic development in WNY. Bi-national projects will: utilize cross-border planning to create transportation and logistical infrastructure; improve

[1] As provided for in EDL § 189-c(4), criteria 2-15 are adapted from the criteria for eligibility for Expansion Power, Replacement Power and Preservation Power under Public Authorities Law § 1005. The specific criteria identified in PAL § 1005(13)(b)(4)-(5) are relevant to power allocations under these programs but do not have any logical application to allocations of Fund Benefits. Therefore, the Board does not expect to use these criteria to evaluate applications for Fund Benefits. Additionally, in accordance with PAL § 1005(13), criteria 13-15 listed herein will only be used in the case of Eligible Projects which are proposed by Applicants as, and determined by the Board to be, "revitalization" projects.

operational relationships; promote the attractiveness of WNY as a hub for global trade.

- Position the WNY region as a global energy hub through new sources of clean energy, energy efficiency and energy efficient transportation.
- Support growth of advanced manufacturing by making research more available to manufacturers to help them innovate.
- Spur growth in the health and life sciences industry through improved commercialization, recruit high profile research talent and reducing the cost burden of healthcare while improving health outcomes.
- Expand the scope of higher education by increasing accessibility to Higher Education for communities that currently have limited access to educational opportunities; better aligning education with the industry needs and creating support structures for start-ups which will assist start-ups with commercialization, business planning, workforce preparation, facilities, etc.
- Grow visitors and visitor spending by raising the profile of WNY as a national and international destination; connect multiple tourist destinations in WNY; improve the profile of the WNY Gateway to the United States.

For more information on the Western New York Regional Economic Development Council please go to http://regionalcouncils.ny.gov/content/western-new-york.

2. The extent to which an award of Fund Benefits would be consistent with the strategies and priorities of the Regional Economic Development Council ("REDC") having responsibility for the region in which an Eligible Project is located.[2] The Finger Lakes Regional Economic Development Council which is responsible for Eligible Projects in Orleans and Genesee Counties Strategies & Priorities can be found at: http://regionalcouncils.ny.gov/content/finger-lakes.
3. The number of jobs that would be created as a result of an award of Fund Benefits.
4. The applicant's long term commitment to the region as evidenced the current and/or planned capital investment in applicant's facilities in the region.
5. The ratio of the number of jobs to be created to the amount of Fund Benefits requested.
6. The types of jobs that would be created, as measured by wage and benefit levels, security and stability of employment.
7. The amount of capital investment, including the type and cost of buildings, equipment and facilities, proposed to be constructed, enlarged or installed.
8. The extent to which an award of Fund Benefits would affect the overall productivity or competitiveness of the applicant and its existing employment.

[2] As provided for in EDL § 189-c(4), criteria 2-15 are adapted from the criteria for eligibility for Expansion Power, Replacement Power and Preservation Power under Public Authorities Law § 1005. The specific criteria identified in PAL § 1005(13)(b)(4)-(5) are relevant to power allocations under these programs but do not have any logical application to allocations of Fund Benefits. Therefore, the Board does not expect to use these criteria to evaluate applications for Fund Benefits. Additionally, in accordance with PAL § 1005(13), criteria 13-15 listed herein will only be used in the case of Eligible Projects which are proposed by Applicants as, and determined by the Board to be, "revitalization" projects.

9. The extent to which an award of Fund Benefits may result in a competitive disadvantage for other business in the State.
10. The growth potential of the applicant's facilities and the contribution of economic strength to the area in which the applicant's facilities are or would be located.
11. The extent of the applicant's willingness to satisfy affirmative action goals.
12. The extent to which an award of Fund Benefits is consistent with state, regional and local economic development strategies and priorities and supported by local units of government in the area in which the business is located.
13. The impact of an award of Fund Benefits on the operation of any other facilities of the applicant, and on other businesses within the region.
14. That the business is likely to close, partially close or relocate resulting in the loss of a substantial number of jobs.
15. That the applicant is an important employer in the community and efforts to revitalize the business are in long-term interests of both employers and the community.
16. That a reasonable prospect exists that the proposed award of Fund Benefits will enable the applicant to remain competitive and become profitable and preserve jobs for a substantial period of time.

POWER AUTHORITY OF THE STATE OF NEW YORK

30 South Pearl Street
10th Floor
Albany, New York 12207-3425

AGREEMENT FOR THE SALE OF FIRM HYDROELECTRIC POWER AND ENERGY FROM THE ST. LAWRENCE-FDR POWER PROJECT TO ALCOA USA CORP.

Service Tariff No. ST AL – 1 - Electric Service Tariff for Alcoa USA Corp. Firm Hydroelectric Power Service

POWER AUTHORITY OF THE STATE OF NEW YORK

30 South Pearl Street, 10th Floor
Albany, New York 12207-3425

AGREEMENT FOR THE SALE
OF FIRM HYDROELECTRIC POWER AND ENERGY FROM
THE ST. LAWRENCE-FDR POWER PROJECT
TO ALCOA USA CORP.

Alcoa USA Corp. ("Alcoa" or "Customer") hereby enters into this Agreement with the Power Authority of the State of New York ("Authority" or "NYPA," and collectively with Customer, the "Parties") for the sale of firm hydroelectric power and energy for its facilities at Park Avenue East ("West Plant"), Massena, New York 13662 as follows:

WHEREAS, the Authority and Alcoa Inc. (now Arconic Inc.), formerly the parent company of Customer, in or around June 2016, entered into a contract entitled "Agreement for the Sale of Firm Hydroelectric Power and Energy from the St. Lawrence-FDR Power Project to Alcoa Inc." (the "2016 Agreement"), which agreement was novated by Alcoa Inc. to Customer on August 1, 2016 and is scheduled to terminate on March 31, 2019;

WHEREAS, the Parties seek to enter into a new agreement effective April 1, 2019, to provide to Customer from the Authority's St. Lawrence-FDR Project 240,000 kW of Firm Hydroelectric Power and Energy to be used by Customer at its West Plant facility;

WHEREAS, such Allocation shall be sold by the Authority to Customer under this Agreement for the Sale of Firm Hydroelectric Power and Energy ("Agreement"); and

WHEREAS, such Allocation is subject to the tariffs of the New York Independent System Operator, Inc. ("NYISO").

NOW THEREFORE, the Parties hereto agree as follows:

I. Definitions

"2016 Agreement" has the meaning ascribed to it in the first "Whereas" clause.

"Agreement" means this Agreement, which attaches and incorporates Service Tariff No. ST AL-1.

"Allocation" refers to the allocation of Preservation Power ("PP") awarded to the Customer as defined in Article II and as specified in Schedule D.

"Authority or NYPA" is the Power Authority of the State of New York, which also does business as New York Power Authority.

"Contract Demand" will be the amount set forth in Article II or such other amount as may be determined in accordance with the provisions of this Agreement.

"Electric Service" is Firm Hydroelectric Power and Energy sold to Customer in accordance with this Agreement, the Service Tariff and the Rules.

"Firm Hydroelectric Power and Energy" is power and associated energy from the Project as provided in Service Tariff No. ST AL-1, and allocated by Authority for business use as Preservation Power pursuant to Section 1005(13) of the New York Public Authorities Law ("PAL").

"FERC" means the Federal Energy Regulatory Commission (or any successor organization).

"FERC License" means the license issued by FERC to Authority for the continued operation and maintenance of the Project, pursuant to Section 15 of the Federal Power Act.

"Force Majeure" has the meaning set forth in Section XIV.

"Hydro Projects" is a collective reference to the Project (defined below) and Authority's Niagara Project, FERC Project No. 2216.

"NYISO" means the New York Independent System Operator or any successor organization responsible for the transmission and the reliable supply of electricity in the State of New York.

"Project" means Authority's St. Lawrence-FDR Project, FERC Project No. 2000.

"Rules" are the applicable provisions of Authority's Rules and Regulations for Power Service (Part 454 of Chapter X of Title 21 of the Official Compilation of Codes, Rules and Regulations of the State of New York) as they are modified from time to time.

"Schedule A" refers to the Schedule A entitled "Employment and Other Commitments" which, along with its attachments/appendices, is attached to and made part of this Agreement.

"Schedule B" refers to the Schedule B entitled "Service Tariff No. AL-1" which is attached to and made part of this Agreement.

"Schedule C" refers to the Schedule C entitled "Monthly CES Charge" which is attached to and made part of this Agreement.

"Schedule D" refers to the Schedule D entitled "Preservation Power Allocation(s)", which describes the PP Allocations made to the Customer and which is attached to and made part of this Agreement.

"Service Tariff" means the Authority's Service Tariff No. AL-1, as may be modified from time to time by the Authority, which contains, among other things, the rate schedule establishing rates and other commercial terms for sale of Electric Service to Customer under this Agreement.

"TSC" is the "NYPA Transmission Service Charge", authorized under the NYISO Open Access Transmission Tariff and applicable to deliveries of Electric Service to Customer.

Other capitalized terms herein that are not otherwise defined in this Agreement or in its attachments and schedules shall have the meaning set forth in the Service Tariff or the Rules.

II. Electric Service to be Provided

A. Allocation and Contract Demand.

The Authority will allocate to Alcoa two hundred forty thousand (240,000) kilowatts ("kW") of Firm Hydroelectric Power and Energy from the Project (the "Allocation"), branded in statute as PP for the period from April 1, 2019 through March 31, 2026 for use at the Alcoa West Plant, Park Avenue East, Massena, New York 13662. The Contract Demand is the amount of PP the Authority will sell to Alcoa and shall equal the Allocation amount. The Project Hydropower that will comprise the Allocation is part of the hydropower that has been sold under the 2016 Agreement which has a scheduled termination date of March 31, 2019. The Authority's service tariff designated as Service Tariff ST AL-1 ("Service Tariff" or "ST AL-1") shall apply to the sale of the Allocation.

B. Delivery Points. At 115,000 Volts at the points of interconnection of Customer's transmission lines to the Barnhart Island Switchyard of the Authority at the West Plant, Massena, New York, or at such other points and voltages as agreed between Customer and the Authority.

C. Reduction of Contract Demand. The foregoing Contract Demand may be reduced by Authority if the amount of Firm Hydroelectric Power and Energy available for sale from the Project is reduced as required to comply with any unstayed ruling, order or decision of any regulatory or judicial body of competent jurisdiction. Any such reduction in the Contract Demand made by the Authority under this subparagraph shall be in proportion to the overall reduction in the aggregate contract demands of hydroelectric customers sold by the Authority from the Project.

D. Authority and Customer shall cooperate in any relocation or installation of transformers or other related facilities servicing West Plant that either Party reasonably deems necessary or desirable. The costs of any such relocation or installation shall be

the responsibility of Customer, except in cases where Authority seeks the relocation or installation; provided however, that Authority will, if requested by Customer, consider in good faith whether its other customers receive any substantial benefit from such relocation or installation. If NYPA determines that such substantial benefits exist, it shall negotiate in good faith with Customer regarding an alternative funding arrangement. In any event, NYPA shall not be obligated to agree upon an alternative funding arrangement.

III. Employment and Other Commitments

The Customer shall be subject to the employment and other commitments set forth in Schedule A. As more particularly set forth in Schedule A, the Authority's obligation to provide Electric Service under this Agreement may be reduced or terminated altogether in the event of Customer's non-compliance with the Employment and Other Commitments described in Schedule A. The Customer's Employment and Other Commitments are in addition to all other commitments and obligations provided in this Agreement.

IV. Rules, Regulations and Service Tariff

The Rules and the Service Tariff are hereby incorporated into this Agreement with the same force and effect as if herein set forth at length. In the event of any inconsistencies, conflicts or differences between the provisions of the Service Tariff and the Rules, the provisions of the Service Tariff shall govern. In the event of any inconsistencies, conflicts or differences between the provisions of this Agreement and the Service Tariff, the provisions of this Agreement shall govern. Except as may be provided under Section V.D., below, Authority shall provide at least thirty (30) days prior written notice to Customer of any proposed change in the Rules or Service Tariff, but in no event shall Authority provide less notice than that provided to similarly affected customers within New York State.

V. Power and Energy Rates, Other Charges and Bond Covenant

A. Base Rates: Firm Hydroelectric Power and Energy associated with the Allocation shall be sold to Customer hereunder at rates for base commodity and TSC determined in accordance with ST AL-1 attached hereto.

B. Customer agrees to compensate Authority for all transmission costs incurred as set forth in ST AL-1. Such charges or costs shall be in addition to the charges recovered through the base rates in ST AL-1 for base commodity and TSC. Customer understands that delivery of the Allocation will be made over transmission facilities under the control of the NYISO, including those owned by Customer or its affiliates. Unless Customer provides Authority sixty (60) days written notice otherwise, Authority will act as the Load Serving Entity ("LSE") with respect to the NYISO or arrange for another entity to do so on its behalf. Customer agrees and understands that it shall be responsible to Authority for all costs incurred by Authority with respect to the Allocation for the services established in the

NYISO's applicable tariffs, as set forth in ST AL-1, whether or not such charges are transmission-related. Such charges or costs shall be in addition to the charges recovered through the base rates in ST AL-1 for base commodity and TSC.

C. To the extent Authority incurs any taxes, assessments or other charges imposed by third parties associated with or attributable to the Allocation, other than any charges associated with the CES Charge as such charge is addressed specifically in Section V.E below, Customer agrees to compensate Authority for all such costs incurred as set forth in ST AL-1. Such charges or costs shall be in addition to the charges recovered through the base rates in ST AL-1 for base commodity and TSC.

D. Notwithstanding any provision of this Agreement to the contrary, the power and energy charges shall be subject to increase by Authority at any time upon 30 days prior written notice to Customer if, after consideration by Authority of its legal obligations, the marketability of the output or use of the Project and Authority's competitive position with respect to other suppliers, Authority determines in its discretion that increases in rates obtainable from any other Authority customers will not provide revenues, together with other available Authority funds not needed for operation and maintenance expenses, capital expenses, and reserves, sufficient to meet all requirements specified in Authority's bond and note resolutions and covenants with the holders of its financial obligations. Authority shall use its best efforts to inform Customer at the earliest practicable date of its intent to increase the power and energy charges pursuant to this provision. Any rate increase to Customer under this subsection shall be on a non-discriminatory basis as compared to other Authority customers after giving consideration to the factors set forth in the first sentence of this subsection. With respect to any such increase, Authority shall forward to Customer with the notice of increase, an explanation of all reasons for the increase, and shall also identify the sources from which Authority will obtain the total of increased revenues and the bases upon which Authority will allocate the increased revenue requirements among its customers. Any such increase in rates shall remain in effect only so long as Authority determines such increase is necessary to provide revenues for the purposes stated in the preceding sentences.

E. In addition to all other fees, assessments and other charges provided for in the Agreement, ST AL-1, and the Rules, the Customer shall be responsible for payment of the Monthly CES Charge established in Schedule C.

VI. Hydropower Curtailments and Substitute Energy

A. If hydraulic or hydrological conditions affecting the Hydro Projects require Authority to curtail the amount of Firm Hydroelectric Power and Energy provided to Customer under this Agreement to an amount below such normal level, reductions shall be applied to all the firm power customers served from the Hydro Projects, including Customer, in proportion to their relative allocations of Firm Hydroelectric Power and Energy from the Hydro Projects.

Reductions as a percentage of the otherwise required Power and Energy deliveries will be the same for all firm Authority hydropower customers served from the Hydro Projects.

B. Authority will provide Substitute Energy to the Customer to replace the hydroelectricity that would otherwise have been supplied.

1. Billing for Substitute Energy. For each kilowatt-hour of Substitute Energy supplied by the Authority, in lieu of paying the base rates set forth in Section V.A. above, the Customer shall pay the Authority directly for: (a) the market cost of the Substitute Energy; and (b) all costs, including but not limited to any NYISO Charges and Taxes, the Authority incurs in connection with the provision of Substitute Energy. Billing and payment for Substitute Energy shall be governed by the Billing and Payments provision of Section 454.6 of the Rules and shall apply directly to the Substitute Energy service supplied to the Customer.

2. Substitute Energy Provision Effect on Contract. All other provisions of the Agreement shall continue in effect with Substitute Energy being delivered in the same manner as would have otherwise been the case.

VII. Billing

Billing shall be performed in accordance with ST AL-1.

VIII. Term, Termination of Service and Early Termination

Electric Service under the Agreement shall commence effective April 1, 2019 (“Effective Date”) and continue through and including March 31, 2026 (the “Expiration Date”), provided, however, that Electric Service may be cancelled, reduced, modified, or terminated prior to the Expiration Date as follows:

1. The Authority may cancel or terminate Electric Service under this Agreement pursuant to Part 454 of the Rules upon notice specified in such provision.

2. The Authority may modify Electric Service under this Agreement in a manner that is consistent with any reduction to the Allocation made for any reason authorized by this Agreement, Service Tariff, or the Rules.

3. The Authority may cancel Electric Service, or modify the quantities of power and energy associated with the Allocation and adjust Electric Service accordingly, under this Agreement in order to comply with any unstayed ruling, order or decision of any regulatory or judicial body of competent jurisdiction (including any licensing or re-licensing order or orders of the FERC or its successor agency).

4. Customer may, for any reason, terminate this Agreement or reduce or terminate Electric Service under this Agreement at any time on written notice given to Authority no less than ninety days (90) in advance, without prejudice to Customer's rights to terminate this Agreement or reduce or terminate Electric Service hereunder due to Force Majeure or breach of this Agreement by Authority.

IX. Notification

Correspondence involving the administration of this Agreement shall be addressed as follows:

To: Authority

Vice President – Economic Development
Power Authority of the State Of New York
123 Main Street
White Plains, NY 10601

To: Customer

Alcoa USA Corp.
Attention: Vice President -- Energy
201 Isabella Street
Pittsburgh, PA 15212
With a copy to:

Alcoa USA Corp.
Attention: General Counsel
201 Isabella St.
Pittsburgh, PA 15212

X. Applicable Law

This Agreement shall be governed by and construed in accordance with the laws of the State of New York to the extent that such laws are not inconsistent with the FERC License for the St. Lawrence-FDR Project.

XI. Successors and Assigns, No Resale of Allocation, No Third Party Beneficiaries

This Agreement shall be binding upon, shall inure to the benefit of, and may be performed by, the legal successors and assigns of either Party hereto. Subject to acceptance of all provisions of this Agreement by any successor or assignee, any assignment of this Agreement by Customer shall only be to another entity that will utilize the Allocation for the same purposes and same location as such Allocation is utilized by Customer. If Customer is unable to or does not use any portion of its Allocation for any period of time, then any such unused Firm Hydroelectric Power and Energy (and all rights attendant thereto) shall

be subject to Service Tariff provisions, including Minimum Monthly Capacity Charge, and shall revert to Authority for its exclusive use until utilized by Customer and Customer shall have no right to sell, transfer, assign, monetize or otherwise use such unutilized power and energy. This Agreement shall not be construed to give any rights to any person who is not a Party to this Agreement.

XII. Supplementary Provision

Section 454.2(c) of the Rules is inapplicable to this Agreement.

XIII. Previous Agreements and Communications

This Agreement shall constitute the sole and complete agreement of the Parties hereto with respect to the sale, transmission and delivery of the Allocation and supersedes all prior agreements and all previous communications between the Parties hereto, either oral or written, with reference to said Allocation. No modifications of this Agreement shall be binding upon the Parties hereto or either of them unless such modification is in writing and is signed by a duly authorized officer of each of them.

XIV. Force Majeure

A. Events of Force Majeure. To the extent either Party is prevented by Force Majeure from carrying out, in whole or part, its obligations under this Agreement (the "Claiming Party"), the Claiming Party shall be excused from the performance of its obligations with respect to this Agreement (other than the obligation to make payments then due or becoming due with respect to performance prior to the Force Majeure). The non-Claiming Party shall not be required to perform or resume performance of its obligations to the Claiming Party corresponding to the obligations of the Claiming Party excused by Force Majeure. Failure to perform in whole or in part because of the occurrence of an event of Force Majeure shall not constitute a default hereunder or subject a Party to liability for any resulting loss or damage. The Parties agree to use their respective reasonable efforts to cure any event of Force Majeure to the extent that it is reasonably possible to do so, it being understood that no Party shall be required to make any concession or grant any demand or request in order to bring to an end any strike, lockout or other industrial disturbance where such course is deemed inadvisable in its sole discretion. Upon the occurrence of an event of Force Majeure, the Claiming Party shall promptly notify the non-Claiming Party of such events and shall specify in reasonable detail the facts constituting such events of Force Majeure.

B. "Force Majeure" Definition. "Force Majeure" means labor strikes, lockouts or other labor troubles, shortage of labor, transportation, raw materials, energy sources, or failure of usual means of supply; fire; flood; war, declared or undeclared; insurrection; riots, acts of God or the public enemy; accidents to or breakdown or mechanical failure of machinery or equipment caused by an event of Force Majeure; "uncontrollable forces" as defined in Section 454.3(c) of the Rules; or any other cause whatsoever whether or not of any nature of character mentioned above which is beyond the reasonable control of the affected Party and which affects the performance by the affected Party of the whole or part

of its obligations under this Agreement. For the avoidance of doubt, Force Majeure shall not include (i) increased costs of performance or decline in revenues, including price disruption or deterioration in Customer's sale markets; (ii) Customer's inability economically to use the Allocation; (iii) defaults or non-performance by contractors or suppliers unless caused by Force Majeure; or (iv) unavailability of financing. Neither Party may raise a claim of Force Majeure based in whole or in part on curtailment by NYISO unless such curtailment is due to Force Majeure.

C. In the event Customer is required to interrupt, suspend or limit production at the West Plant as a result of Force Majeure, the Authority may suspend or reduce scheduled Electric Service, as appropriate.

XV. Communication Coordination

The Parties agree to use reasonable efforts to coordinate the timing and content of any public communications regarding this Agreement and the transactions contemplated hereby, provided that each Party shall be free to make any communication required by any applicable law, governmental regulations, stock exchange rules, subpoena or other written demand made in accordance with applicable law or as required in connection with any legal proceedings.

XVI. Severability and Voidability

If any term or provision of this Agreement shall be invalidated, declared unlawful or ineffective in whole or in part by an order of the FERC or a court of competent jurisdiction, such order shall not be deemed to invalidate the remaining terms or provisions hereof.

Notwithstanding the preceding paragraph, if any provision of this Agreement is rendered void or unenforceable or otherwise modified by a court or agency of competent jurisdiction, the entire Agreement shall, at the option of either Party and only in such circumstances in which such Party's interests are materially and adversely impacted by any such action, be rendered void and unenforceable by such affected Party.

XVII. Counterparts

This Agreement may be executed in any number of counterparts, each of which will be an original, with the same effect as if the signatures thereto were upon the same instrument.

XVIII. Effectiveness of Agreement

This Agreement shall become effective upon execution by both Parties.

AGREED:

ALCOA USA CORP.

BY: _____

Title: _____

Date: _____

(Seal)

Attest by: _____

AGREED:

POWER AUTHORITY OF THE STATE OF NEW YORK

BY: _____

Title: _____

Date: _____

(Seal)
Attest by: _____

SCHEDULE A

EMPLOYMENT AND OTHER COMMITMENTS

SECTION I. CUSTOMER COMMITMENTS

1. West Plant Operations: During the Term, Customer will continue smelter operations at the West Plant.

2. Employment Commitments:

   a. The Customer shall create and maintain the employment level set forth in the Appendix to this Schedule A (the "Base Employment Level"). Such Base Employment Level shall be the total number of full-time positions held by: (a) individuals who are employed by the Customer or its affiliates at Customer's West Plant identified in the Appendix to this Schedule, and (b) individuals who are contractors or who are employed by contractors of the Customer and assigned to the West Plant (collectively, "Base Level Employees"). The number of Base Level Employees shall not include individuals employed on a part-time basis (less than 35 hours per week); provided, however, that two individuals each working 20 hours per week or more at the West Plant shall be counted as one Base Level Employee.

   b. The Base Employment Level shall not be created or maintained by transfers of employees from previously held positions with the Customer or its affiliates within the State of New York, except that the Base Employment Level may be filled by employees of the Customer laid off from other Customer facilities for *bona fide* economic or management reasons.

   c. The Authority will consider a request to change the Base Employment Level based on a claim of increased productivity, increased efficiency or adoption of new technologies or for other appropriate reasons as determined by the Authority. Any such change shall be within Authority's discretion.

3. Capital Investment Commitments

   The Customer shall make the capital investments specified in the Appendix to this Schedule A.

4. Power Utilization

   For each month the Authority provides Electric Service to the Customer, the Customer shall utilize the entire Allocation, as represented by the Contract Demand (as such term is described in the Service Tariff). If only part of the Allocation is being utilized pursuant to a takedown schedule or other written agreement between the Customer and the Authority, then the Customer shall utilize such entire part of the Allocation.

SECTION II. RECORDKEEPING AND REPORTING

1. Employment

A record shall be kept monthly by the Customer, and provided on a calendar year basis to the Authority, of the total number of Base Level Employees who are employed at or assigned to the Customer's West Plant. Such report shall separately identify the individuals who are employed by the Customer, and the individuals who are contractors or who are employed by contractors of the Customer, and shall be certified to be correct by an officer of the Customer, plant manager or such other person authorized by the Customer to prepare and file such report and shall be provided to the Authority on or before the last day of February following the end of the most recent calendar year. The Authority shall have the right to examine and audit on reasonable advance written notice all non-confidential written and electronic records and data concerning employment levels including, but not limited to, personnel records and summaries held by the Customer and its affiliates relating to employment in New York State.

2. Capital Investments

The Customer shall comply with the recordkeeping, recording and reporting requirements specified in the Appendix to this Schedule A.

3. Power Utilization

A record shall be kept monthly by the Customer, and provided on a calendar year basis to the Authority on or before the last day of February following the end of the most recent calendar year, of the maximum demand utilized each month in the West Plant receiving the power covered by the Agreement.

SECTION III. COMPLIANCE ACTION BY THE AUTHORITY

1. Employment

If the year-end monthly average number of employees is less than 90% of the Base Employment Level set forth in the Appendix to this Schedule A for the subject calendar year, the Authority may reduce the Contract Demand in accordance with the procedures provided in Section III.5 of this Schedule. The maximum amount of reduction will be determined by multiplying the Contract Demand by the quantity one minus the quotient of the average monthly employment during the subject calendar year divided by the Base Employment Level. Any such reduction shall be rounded to the nearest ten (10) kW. In the event of a reduction of the Contract Demand to zero, the Agreement shall automatically terminate.

2. Capital Investment Commitment

The Authority may reduce the Contract Demand as provided in the Appendix to this Schedule A if the Customer does not comply with the Capital Investment Commitment.

3. Power Utilization Level

If the average of the Customer's six (6) highest Peak Demands (as such term is described in the Service Tariff) in any calendar year for PP is less than 90% of the Customer's Contract Demand in such calendar year, for reasons other than Force Majeure, the Authority may reduce the Contract Demand in accordance with the procedures provided in Section III.5 of this Schedule. The maximum amount by which the Authority may reduce the Contract Demand shall be determined by multiplying the Contract Demand by the quantity one minus the quotient of the average of the six (6) highest Peak Demands for in such calendar year divided by the Contract Demand. Any such reduction shall be rounded to the nearest ten (10) kW. In the event of a reduction of the Contract Demand to zero, this Agreement shall automatically terminate.

4. Additional Compliance Action

In addition to the Authority's other rights and remedies provided in this Agreement, the Service Tariff and the Rules, the Authority may suspend Electric Service to the Customer if the Customer fails to comply with its recordkeeping and reporting requirements contained in Section II of this Schedule A and fails to cure such non-compliance within thirty (30) days following written notice of such non-compliance received from the Authority.

5. Notice of Intent to Reduce Contract Demand

In the event that the Authority determines that the Contract Demand will be wholly or partially reduced pursuant to Sections III.1, III.2, or III.3 of this Schedule A, the Authority shall provide the Customer with at least thirty (30) days prior written notice of the proposed reduction, specifying the amount and reason for the reduction. Before implementing any reduction, the Authority may consider the Customer's scheduled or unscheduled maintenance, facility upgrade periods, and the business cycle, and any other relevant factors offered by the Customer. If, at the end of the thirty (30) day notice period, the Authority determines that a reduction is warranted, it shall provide the Customer with notice of such determination and provide the Customer with sixty (60) days to present a proposed plan with actionable milestones to cure the deficiency. The Authority shall respond to the Customer concerning the acceptability of any proposed plan that is provided in accordance with this Section III.5 within thirty (30) days of the Authority's receipt of such proposed plan. It shall be within the Authority's discretion whether or not to accept the Customer's proposed plan, require a different plan, or implement the reduction of the Contract Demand after the Authority's response to the Customer's proposed plan. If the Authority elects to implement the reduction of the Contract Demand, it will suspend such reduction and restore Customer's Contract Demand within a reasonable time upon Customer's successful cure of the deficiency.

APPENDIX TO SCHEDULE A

BASE EMPLOYMENT LEVEL

During the course of each calendar year during the term of this Agreement (a "Reporting Year"), the Customer shall employ at least 450 full-time employees ("Base Employment Level") at the Customer's West Plant, subject to the 90% compliance threshold as further detailed in Schedule A, Section III. The Base Employment Level shall be maintained for the term of the Allocation through the term of the Agreement.

CAPITAL INVESTMENT COMMITMENTS

1. **Annual Capital Investment Commitment** (if applicable, as specified below)

   a. Each Reporting Year, the rolling average of the annual capital investments made by the Customer at the West Plant ("Rolling Average") shall total not less than $2 million (the "Annual Capital Investment Commitment"). For purposes of this provision, "Rolling Average" means the three-year average comprised of (1) the total amount of capital investments ("Annual CI Expenditures") made by the Customer at the West Plant during the current Reporting Year, and (2) the Annual CI Expenditures made by the Customer at the West Plant during the two prior Reporting Years. The first Reporting Year for the Annual Capital Investment Commitment shall be calendar year 2021, and such initial report shall consider the Rolling Average for the period 2019-2021.

   b. Each year, the Customer shall record its Annual CI Expenditures for purposes of enabling the Authority to determine and verify the Rolling Average, which shall be provided to the Authority in a form specified by the Authority on or before the last day of February following the end of the most recent calendar year.

   c. If the Customer's Rolling Average is less than 90% of its Annual Capital Investment Commitment for the Reporting Year, the Contract Demand may be reduced by the Authority in accordance with the procedures provided in Section III.5 of this Schedule. The maximum amount by which the Authority may reduce the Contract Demand shall be determined by multiplying the Contract Demand by the quantity one minus the quotient of the Rolling Average divided by the Annual Capital Investment Commitment. Any such reduction shall be rounded to the nearest ten (10) kW. In the event of a reduction of the Contract Demand to zero, this Agreement shall automatically terminate.

SCHEDULE B

SERVICE TARIFF NO. AL-1

POWER AUTHORITY OF THE STATE OF NEW YORK

30 SOUTH PEARL STREET

ALBANY, NY 12207

Electric Service Tariff for Alcoa USA Corp.
Firm Hydroelectric Power Service

Service Tariff No. AL – 1

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Schedule of Rates for Firm Hydroelectric Power Service

I. Applicability

This Service Tariff is applicable to the sale of firm hydroelectric power service produced by the Authority's St. Lawrence-FDR Project to Alcoa USA Corp. ("Alcoa" or "Customer") and as further defined in the Agreement.

II. Frequently Used Abbreviations and Terms

- kW kilowatt(s)
- kWh kilowatt-hour(s)
- MWh megawatt-hour(s)
- NYISO New York Independent System Operator, Inc. or any successor organization
- OATT NYISO Open Access Transmission Tariff
- PAL New York Public Authorities Law
- UCAP Unforced Capacity

Agreement: An executed agreement between the Authority and the Customer setting forth the terms and conditions applicable to the allocation and sale of firm hydroelectric power to the Customer, including an agreement entitled "Agreement for the Sale of Firm Hydroelectric Power and Energy from the St. Lawrence-FDR Power Project to Alcoa USA Corp."

Aluminum Price: Aluminum price derived as a reference point for assigning applicable base rates and is calculated as the sum of the London Metal Exchange and Midwest Aluminum Premium reference prices as further defined herein.

Authority: The Power Authority of the State of New York, a corporate municipal instrumentality and a political subdivision of the State of New York created pursuant to Chapter 772 of the New York Laws of 1931 and existing and operating under Title 1 of Article 5 of the PAL, also known as the "New York Power Authority" and "NYPA."

Billing Energy: This term has the meaning provided for in Section III.G.1 of this Service Tariff.

Billing Period: Any period of approximately thirty (30) days, generally ending with the last day of each calendar month but subject to the billing cycle requirements.

Capacity Tag: Capacity (kW) as expressed by the NYISO as the Unforced Capacity ("UCAP") obligation for a capability period. The UCAP obligation is inclusive of any adjustments for reserves needed to meet the installed reserve margin as required by the NYISO.

Contract Demand: This term has the meaning provided for in the Agreement.

Electric Service: The power and energy provided to the Customer in accordance with the Agreement, this Service Tariff and the Rules.

Firm Power and Energy: This term has the meaning provided for in Section IV.B. of this Service Tariff.

Hydro Projects: Collective reference to the Project and Authority's Niagara Project, FERC Project No. 2216.

London Metal Exchange or **LME:** Center for industrial metals trading used as reference to derive Aluminum Prices within this Service Tariff. Specifically, the LME component used in calculating the Aluminum Price for a particular month (M) shall be the average LME Cash Buyer's Price for the month prior (M-1).

Load Serving Entity or **LSE:** This term has the meaning provided for in the Agreement.

Load Factor Share: Methodology used to determine firm hydroelectric Billing Energy share of the total Native System Load as further defined in Section III.G.1 of this Service Tariff.

Midwest Aluminum Premium or MWP: Midwest U.S. Premium price published by Platt's Metals Week, converted to dollars per metric tonne ($/metric tonne), in addition to LME aluminum price, used to derive Aluminum Prices within this Service Tariff. Specifically, the MWP component used in calculating the Aluminum Price for a particular month (M) shall be the average MWP for the month prior (M-1).

Minimum Monthly Capacity Charge: This term has the meaning provided for in Section III.D.1 of this Service Tariff.

Native System: Customer's electric system at Park Avenue East ("West Plant"), Massena, New York 13662.

Native System Load: Total consumption within the boundaries of the Customer's electric system, as determined by the Authority's revenue-grade metering equipment. This includes incoming bilateral energy, market purchases taken from the transmission grid, and internal generation. The coincident sum of all incoming power and internal generation minus the outgoing power being sent back to the transmission grid will be considered the Native System Load and will be the value used to calculate the monthly Native System Load Factor.

Native System Load Factor: Percent value calculated every Billing Period as follows: (Native System Load) ÷ [(Peak Demand) * (# of Hours in the Billing Period)].

NYISO Tariffs: The tariffs of the NYISO, including the NYISO OATT, as such tariffs are amended and in effect from time to time.

Peak Demand: The highest coincident sixty (60) minute integrated demand of the Native System Load measured during the Billing Period and expressed in kW.

Project: The Authority's St. Lawrence-FDR Power Project.

Rural/Domestic Rate: Rates charges by the Authority for the sale of hydroelectricity for the benefit of rural and domestic customers receiving service in accordance with the Niagara Redevelopment Act, 16 U.S.C. § 836(b)(1) and PAL §1005(5).

Rules: The Authority's rules and regulations set forth in Chapter X of Title 21 of the Official Compilation of Codes, Rules and Regulations of the State of New York as may be modified from time to time by the Authority.

Service Tariff: This service tariff, denominated as "Electric Service Tariff for Alcoa USA Corp. Firm Hydroelectric Power Service, Service Tariff No. AL - 1," as amended from time to time by the Authority.

Substitute Energy: Energy the Authority procures and sells to the Customer to replace Firm Power and Energy that would otherwise have been sold to the Customer but for a curtailment made in accordance with the Agreement and this Service Tariff.

Taxes: This term has the meaning provided for in Section III.D.2 of this Service Tariff.

Transmission Service Charge or **TSC:** The NYPA Transmission Service Charge as provided for and defined in the NYISO OATT.

Additional terms are defined in the text of this Service Tariff.

Unless otherwise indicated, all other capitalized terms and abbreviations used but not defined in this Service Tariff shall have the meaning as set forth in the Agreement. In the event that publication of any index price utilized in this Tariff, including the LME Cash Buyer's Price or Platt's Midwest Aluminum Premium, is discontinued or the methodology for determination thereof is substantially revised, the Parties will meet and discuss in good faith the amendment of the Tariff by substitution of an alternative index or other alternative means of determination of pricing most closely approximating their original intent.

III. Base Rates and Related Matters

A. Base Rates

1. Subject to the other provisions of this Service Tariff, the base rates to be charged to the Customer by the Authority shall be tied directly to Aluminum Prices as follows:

Aluminum Price ($/metric ton)	Base Rate ($/MWh)
Below 1,500	12.25
1,500 - 1,799	12.25
1,800 - 1,899	14.00
1,900 - 1,999	15.75
2,000 - 2,099	17.50
2,100 - 2,199	19.25
2,200 - 2,299	21.00
2,300 - 2,399	22.75
2,400 - 2,499	24.50
2,500 - 2,599	26.25
2,600 - 2,699	28.00
2,700 - 2,799	29.75
2,800 - 2,899	31.50
2,900 - 2,999	33.25
3,000 - 3,099	35.00
3,100 - 3,199	36.75
3,200 - 3,299	38.50
3,300 - 3,399	40.25
3,400 and above	42.00

The base rates, as set forth above, include a monthly base rate for commodity, and a base Transmission Service Charge valued at $1.75/MWh at a ninety-eight (98) percent load factor, both of which are subject to monthly billing adjustments for full cost recovery at the Customer Native System Load Factor, as per Sections III.E. and III.C. of this Service Tariff.

B. NYISO Transmission and Related Charges ("NYISO Charges")

The Customer shall compensate the Authority for the following NYISO Charges assessed on the Authority for services provided by the NYISO pursuant to the NYISO Tariffs associated with providing Electric Service to the Customer:

1. Charges for OATT Rate Schedules 1 through 9 and any new ancillary services and/or rate schedules as may be provided in accordance with the NYISO Tariffs;

2. Transmission Usage Charges ("TUC") which are Marginal Losses and Congestion costs as provided for in the NYISO Tariffs;

3. The New York Power Authority "Transmission Adjustment Charge" or "NTAC" as provided for in the NYISO Tariffs;

4. NYISO wide uplift as provided for in the NYISO Tariffs;

5. Any and all other charges, assessments, or other amounts associated with delivery of Firm Power and Energy sold to the Customer by the Authority, or otherwise associated

with the Authority's responsibilities as a Load Serving Entity for the Customer, that the NYISO assesses on the Authority under the provisions of the NYISO Tariffs; and

6. Any charges assessed on the Authority with respect to the provision of Electric Service to the Customer for facilities needed to maintain reliability and incurred in connection with the NYISO's Comprehensive System Planning Process (or similar reliability-related obligations incurred by the Authority with respect to Electric Service to the Customer), applicable tariffs, or required to be paid by the Authority in accordance with law, regardless of whether such charges are assessed by the NYISO or another third party.

The NYISO Charges, if any, incurred by the Authority on behalf of the Customer, are in addition to the Authority's base rates that are charged to the Customer in accordance with other provisions of this Service Tariff.

The method of billing NYISO Charges to the Customer will be based on the Authority's discretion.

C. Transmission Charges and Monthly TSC Reconciliation

The Customer shall compensate the Authority for all transmission costs incurred by the Authority with respect to the Allocation, including such costs that are charged pursuant to the NYISO Tariffs. Any difference between TSC costs recovered through the base rates as set forth in Section III.A.1 of this Service Tariff and actual TSC costs shall be reconciled on a monthly basis by the Authority. The difference of any under collection or over collection of the TSC costs shall be passed through to the Customer on the bill.

D. Other Charges

The base rates do not reflect any of the charges discussed in this Section III.D. (collectively, "Other Charges"). The Customer shall be responsible for payment of such Other Charges as a separate charge from base rates to the extent they apply to the Customer.

1. Minimum Monthly Capacity Charge

If in any given month the Customer's monthly Peak Demand (kW) is less than the Capacity Tag, the Customer shall be subject to a Minimum Monthly Capacity Charge equal to the difference between the Customer's monthly Peak Demand (kW) and the Capacity Tag as expressed by the NYISO for the applicable month, times the applicable NYISO locational capacity spot auction market rate.

Such Minimum Monthly Capacity Charge shall be in addition to all other charges provided for in this Service Tariff, including but not limited to, charges included in the base rates and NYISO Charges as provided for in this Service Tariff.

2. Taxes

The Authority will charge and collect from the Customer all local, state and federal taxes, assessments or other charges mandated by local, state or federal agencies or authorities that are levied on the Authority or that the Authority is required to collect from the Customer ("Taxes") if and to the extent such Taxes are not recovered by the Authority pursuant to another provision of this Service Tariff.

3. Curtailments and Substitute Energy

Firm Power and Energy is subject to curtailment as provided for in the Agreement and Section IV.C. of this Service Tariff. The Authority shall provide Substitute Energy to the

Customer, and the Customer shall pay the Authority for Substitute Energy, in accordance with the Agreement and Section IV.C. of this Service Tariff.

E. Niagara and St. Lawrence-FDR Hydroelectric Rates

The base rates, as set forth in Section III.A. of this Service Tariff, include both commodity and TSC related charges. At all times the commodity component of the base rate (base rate less the TSC rate) shall be no lower than the overall Rural/Domestic Rate (Rural/Domestic Rates computed at the Customer Native System Load Factor). For each Billing Period, if the commodity component of the base rate is lower than the overall Rural/Domestic Rate, the difference between the commodity component of the base rate and the overall Rural/Domestic Rate will be added to the base rate. Concurrently, for each Billing Period, if the commodity component of the base rate is equal to or greater than the overall Rural/Domestic Rate, the base rates, as set forth in Section III.A. of this Service Tariff, will be the month's applicable billing rates, without adjustment.

F. New Charges

The Customer shall be responsible for payment of any and all new third-party charges incurred by the Authority and attributable to its provision of Electric Service to the Customer, including but not limited to, charges and costs incurred for supplying Firm Power and Energy, any new NYISO Charges as may be defined and applied in any NYISO Tariffs, NYISO-related agreements and NYISO procedures from time to time (collectively, "New Charges"). The Authority, in its sole discretion, may include any such New Charges in the base rates or bill the Customer separately for such New Charges.

G. Billing and Billing Methodology

Unless otherwise specified in the Agreement, the following provisions will apply:

1. Billing Energy

The kilowatt-hours (kWh) charged by the Authority to the Customer will be based on the Load Factor Share of the total number of kilowatt-hours recorded on the Authority's revenue grade meters for the Billing Period as follows.

- If the Peak Demand is higher than the Contract Demand in a given month, the Billing Energy shall be equal to the product of the Contract Demand multiplied by the Native System Load Factor and number of hours in the Billing Period.
- If the Peak Demand is less than the Contract Demand, the Billing Energy shall be equal to the total number of kilowatt-hours recorded on the Authority's revenue grade meters for the Billing Period.

2. Scheduling and Settlements of Load

Each hour the Authority will schedule the Customer's load for the full Contract Demand. Any resulting overscheduled load, as reported as Balancing Energy Sell transactions by the NYISO, shall not be reflected on the Customer's bill as there is no entitlement to said transaction. The Customer is encouraged to voluntarily provide an hourly load schedule each month to the Authority. The Customer is required to provide any planned or unplanned outage information to the Authority in a timely manner as follows; the Customer shall provide a minimum of three (3) business days' notice to the Authority when planned load reductions greater than five (5%) percent of the Contract Demand are to occur in excess of a one hour interval. The customer is required to provide any

unplanned outage information in excess of a one hour interval to the Authority within no less than three (3) business days of the occurrence.

3. Market Purchases

If in any given hour during a Billing Period the Customer load requirements exceed the Customer's Contract Demand (reported as Balancing Energy Purchase transactions), these purchases shall be reflected on the Customer's bill including, but not limited to, TSC charges for the Market Purchase share.

4. Estimated Billing

If the Authority, in its reasonable discretion, determines that it lacks reliable data on the Customer's actual energy usage for a Billing Period during which the Customer receives electric service from the Authority, the Authority shall have the right to render a bill to the Customer for such Billing Period based on estimated usage ("Estimated Bill").

For the purpose of calculating an Estimated Bill, the Billing Energy used in the base charge calculation shall be equal to the Contract Demand (kW) amount as defined in the Agreement at ninety-eight (98) percent load factor for that Billing Period.

If data indicating the Customer's actual usage for any Billing Period in which an Estimated Bill was rendered subsequently becomes available to the Authority, the Authority will make necessary adjustments to the corresponding Estimated Bill in accordance with Section III.H.1 of this Service Tariff and, as appropriate, render a revised bill (or provide a credit) to the Customer.

The Authority's discretion to render Estimated Bills is not intended to limit the Authority's rights under the Agreement or otherwise regarding metering arrangements.

H. Adjustments to Charges

1. Billing Adjustments

In addition to any other adjustments provided for in this Service Tariff, in any Billing Period, the Authority may make appropriate adjustments to billings and charges to address such matters as billing and payment errors, the receipt of actual, additional, or corrected data concerning Customer energy usage.

2. Power Factor

For service provided under this and any other Service Tariff or agreement Customer shall maintain not less than ninety-seven and one-half percent (97.5%) power factor at the point of delivery. The Customer's Peak Demand under this Service Tariff will be increased one-half percent (1/2%) for each one-half percent (1/2%) by which the average power factor at which energy is supplied during such Billing Period is less than ninety-seven and one-half percent (97.5%). Average power factor will be computed to the nearest one-half percent (1/2%) according to the following formula:

$$Average\ Power\ Factor = \frac{kWh}{\sqrt{kWh^2 + kvar\ h^2}}$$

The data used in the above formula shall be obtained from meters which are ratcheted to prevent reverse registration.

3. Adjustment for Transformer Losses

If delivery is made at a transmission voltage but metered on the low-voltage side of Customer's substation, the meter readings will be increased by two percent (2%) to compensate for transformer losses; provided, however, that this percentage may be reduced to reflect improvements in loss rates should new transformers be put in use at Customer's plants.

I. Adjustment of Rates

To the extent consistent with the Agreement between the Authority and the Customer, the base rates contained in this Service Tariff may be revised from time to time as set forth in Section III.E. of this Service Tariff or in order to meet all requirements specified in its bond and note resolutions and covenants with holders of its financial obligations. Should the Authority need to adjust the base rates, the Authority will provide thirty (30) days written notice to the Customer.

IV. General Provisions

A. Character of Service

Alternating current; 60 hertz, three-phase.

B. Firm Power Service

Firm Power and Energy under this Service Tariff are hydropower and associated energy intended to be available at all times except for limitations provided in the Agreement, the Rules and in this Service Tariff.

C. Availability of Energy

1. Subject to Section IV.C.2 of this Service Tariff, the Authority shall provide to the Customer in any Billing Period Firm Power and Energy.
2. If, as a result of reduced water flows caused by hydrologic conditions, there is insufficient energy from the Hydro Projects to supply the full power and energy requirements of the Authority's Firm Power and Energy customers served from the Hydro Projects, curtailments in the amount of Firm Power and Energy to which the Customer is entitled under the Agreement will be applied on a pro rata basis to all Firm Power and Energy customers served by the Hydro Projects. Reductions as a percentage of the otherwise required Firm Power and Energy sales will be the same for all Firm Power and Energy customers served by the Hydro Projects.
3. The Authority will provide Substitute Energy to the Customer to replace the Firm Power and Energy that would otherwise have been supplied under this Agreement but for the curtailment. For each kilowatt-hour of Substitute Energy supplied by the Authority, in lieu of paying the base rates set forth in Section III.A. above, the Customer shall pay the Authority directly for: (a) the market cost of the Substitute Energy; and (b) all costs, including but not limited to any NYISO Charges and Taxes, the Authority incurs in connection with the provision of Substitute Energy.
4. The Authority will give the Customer advance notice of forecasted shortfalls in Firm Power and Energy which will advise the Customer of the forecasted shortfall of Firm Power and Energy, the period to which the forecast applies (usually a Billing Period), and the Customer's anticipated share of the forecasted shortfall. After the Billing Period to which the notice applies, the Authority will determine after the fact the actual shortfall and make any appropriate adjustments to charges and billings to the Customer in accordance with the rates provided for in this Service Tariff.
5. The Authority is under no obligation to supply and will not supply to the Customer in later Billing Periods any curtailed Firm Power and Energy.

D. Delivery

For the purpose of this Service Tariff, power shall be deemed to be offered when the Authority is able to supply power and NYISO transmits it to its designated points of interconnection with the Customer's transmission agent(s). If, despite such offer, there is a failure of delivery by the Customer or the transmission agents(s), such failure shall not be subject to a billing adjustment pursuant to Section 454.6(d) of the Rules.

E. Electrical Fluctuations

The power and energy taken hereunder shall not be used in such a manner as to cause unusual fluctuations or disturbances on Authority's system. Customer shall provide, at its expense,

suitable apparatus which will reasonably limit such fluctuations. In the event that unreasonable fluctuations or disturbances, including without limitation harmonic currents resulting in actionable interference with communications systems or in harmonic resonance of now existing facilities, are caused by Customer's facilities, Authority shall immediately notify Customer of the circumstances and Authority shall then have the right to discontinue the delivery of power and energy under this contract upon thirty (30) days prior written notice until conditions causing such fluctuations or disturbances are corrected by Customer. Despite such discontinuance of service Customer shall be obligated to pay the amounts due for Electrical Service under this Service Tariff.

F. Rendition and Payment of Bills

1. The Authority will render bills to the Customer for Electric Service on or before the tenth (10^{th}) business day of the month for charges due for the previous Billing Period. Bills will reflect the amounts due and owing, and are subject to adjustment as provided for in this Agreement, Service Tariff No. AL-1 and the Rules. Unless otherwise agreed to by the Authority and the Customer in writing, the Authority shall render bills to the Customer electronically.
2. Payment of bills by the Customer shall be due and payable by the Customer by the first day of the following month of the date the Authority renders the bill. Payment of bills by the Customer shall be paid through the means as directed on the bill.
3. Except as otherwise agreed by the Authority in writing, if the Customer fails to pay any bill when due, an interest charge of two percent (2%) of the amount unpaid will be added thereto as liquidated damages, and thereafter, as further liquidated damages, an additional interest charge of one and one-half percent (1.5%) of the sum unpaid shall be added on the first day of each succeeding Billing Period until the amount due, including interest, is paid in full.
4. Unless otherwise agreed to by the Authority and the Customer in writing, in the event the Customer disputes any item of a bill rendered by Authority, the Customer shall pay such bill in the time provided for by this Agreement, and adjustments, if necessary, will be made thereafter.
5. If at any time after commencement of Electric Service the Customer fails to make complete payment of any two (2) bills for Electric Service when such bills become due pursuant to Agreement, the Authority shall have the right to require that the Customer deposit with the Authority a sum of money, or provide an irrevocable standby letter of credit, which may be presented for draw at a location in New York State, issued for benefit of the Authority by a bank having a Standard and Poor's long-term issuer rating of "A" or better, or an equivalent rating by Moody's, or Fitch's, and acceptable to the Authority in its reasonable discretion, in either case in an amount equal to all charges that would be due under this Agreement for Electric Service for two (2) consecutive calendar months as estimated by the Authority. Such deposit or standby letter of credit will be deemed security for the payment of unpaid bills. The failure or refusal of the Customer to provide the deposit or standby letter of credit within thirty (30) days of a request made by the Authority consistent with this paragraph will be grounds for the Authority in its sole discretion to suspend Electric Service to the Customer or terminate this Agreement.

G. Conflicts

In the event of any inconsistencies, conflicts, or differences between the provisions of this Service Tariff and the Rules, the provisions of the Service Tariff will govern. In the event of any

inconsistencies, conflicts or differences between the Service Tariff and any provisions of the Agreement, the provisions of the Agreement will govern.

SCHEDULE C

MONTHLY CES CHARGE

I. DEFINITIONS

When used with initial capitalization, whether singular or plural, the following terms, as used in this Schedule, shall have the meanings as set forth below. Capitalized terms not defined in this Schedule shall have the meaning ascribed to them elsewhere in the Agreement, in the Service Tariff, or in the Rules.

"Alternative REC Compliance Program" has the meaning provided in Section III.1 of this Schedule C.

"Annual REC Percentage Target" has the meaning provided in Section II.2.A of this Schedule C.

"Clean Energy Standard" or "CES" means the Clean Energy Standard adopted by the State in the CES Order or as subsequently adopted in statute.

"CES Order" means the Order issued by the Public Service Commission entitled "Order Adopting a Clean Energy Standard, issued on August 1, 2016, in Case Nos. 15-E-0302 and 16-E-0270, and includes all subsequent orders amending, clarifying and/or implementing such Order or the RES.

"Government Action" has the meaning provided in Section II.9 of this Schedule C.

"Load Serving Entity" has the meaning provided in the CES Order.

"Monthly CES Charge" means the monthly charge to the Customer established in this Schedule C.

"Monthly REC Cost Component" has the meaning provided in Section II.3 of this Schedule C.

"Monthly ZEC Cost Component" has the meaning provided in Section II.3 of this Schedule C.

"NYSERDA" means the New York State Energy Research and Development Authority.

"PP Program ZEC Costs" has the meaning provided in Section II.5.B of this Schedule C.

"Public Service Commission" means the New York State Public Service Commission.

"REC Compliance Measures" mean: (1) the Authority's procurement of RECs from NYSERDA in accordance with NYSERDA procedures and/or the CES Order; (2) the Authority's procurement of RECs from available REC markets; (3) the Authority's procurement of RECs from sources other than those identified in items (1) and (2) of this definition, including through a procurement process adopted by the Authority; and/or (4) any other measure that the Public

Service Commission authorizes a Load Serving Entity to implement for the purpose of meeting the applicable Mandatory Minimum Percentage Proportion in the CES.

"REC Investment Obligation" has the meaning provided in Section II.2.A of this Schedule C.

"Renewable Energy Standard" or "RES" means the Renewable Energy Standard adopted by the State in the CES Order or as subsequently adopted in statute.

"State Energy Plan" or "SEP" means the 2015 New York State Energy Plan as amended from time to time.

"Total Monthly PP Load" has the meaning provided in Section II.4.B of this Schedule C.

"Total Monthly REC Costs" has the meaning provided in Section II.4.B of this Schedule C.

"ZEC Program Year" has the meaning provided in Section II.2.B of this Schedule C.

"ZEC Purchase Obligation" has the meaning provided in Section II.2.B of this Schedule C.

II. MONTHLY CES CHARGE

1. Notwithstanding any other provision of the Agreement, or any provision of the Service Tariff, or the Rules, the Customer shall be subject to a Monthly CES Charge calculated as provided for in this Schedule C. The Monthly CES Charge is in addition to all other charges, fees and assessments provided in the Agreement, the Service Tariff and the Rules. By accepting Electric Service under the Agreement, the Customer agrees to pay the Monthly CES Charge.

2. The Monthly CES Charge is to support compliance programs that the Authority is implementing for the purpose of complying with the following State energy/environmental policies:

   A. The CES and Tier 1 of the Renewable Energy Standard, and implementing the PP power program in a manner that is consistent with the SEP. Pursuant to these State policies, the Authority will invest in new renewable generation resources to serve its PP customers ("REC Investment Obligation"). Such investments will be made through the procurement of RECs through REC Compliance Measures in quantities that are intended to address the annual Mandatory Minimum Percentage Proportions as applied by the Authority to the total PP load that the Authority will serve each calendar year (the "Annual REC Percentage Target") for the purpose of ultimately meeting the RES.

   B. The CES and Tier 3 of the Renewable Energy Standard, and implementing the PP power program in a manner that is consistent with the New York State Energy Plan. Pursuant to these State policies, the Authority will purchase Zero Emission Credits from NYSERDA in amounts calculated on the basis of the amount of electric load that the Authority serves in relation to the total electric load served by all Load Serving Entities in the New York Control area, to support the preservation of existing at risk

nuclear zero emissions attributes in the State (the "ZEC Purchase Obligation"). The ZEC Purchase Obligation is implemented on the basis of program years running from April 1 through March 31 of each year ("ZEC Program Year").

3. As more specifically provided herein, the Monthly CES Charge will be calculated on the basis of the following two cost components: (1) a monthly REC cost component that is intended to identify costs that the Authority incurs for implementing REC Compliance Measures that are attributable to the Customer's PP load served under the Agreement ("Monthly REC Cost Component"); and (2) a monthly ZEC cost component that is intended to identify costs that the Authority incurs for ZECs that it purchases in quantities that are attributable to the Customer's PP load served under the Agreement ("Monthly ZEC Cost Component").

4. The Monthly REC Cost Component will be determined as follows:

   a. The Authority shall have the right, for each calendar year to implement such REC Compliance Measures as it determines in its discretion to be appropriate for the purpose of meeting the Annual REC Percentage Target for the total PP load that it will serve during such calendar year.

   b. The Authority will, for each month of each calendar year, calculate the total costs ("Total Monthly REC Costs") that the Authority has incurred or estimates that it will incur from implementing RES Compliance Measures for the purpose of meeting the Annual REC Percentage Target for the total PP kilowatt-hour load for the month ("Total Monthly PP Load"). The Total Monthly REC Costs may be calculated based on forecasts of the Total Monthly PP Load that the Authority expects to serve for the month, or on a lagged basis based on the actual Total Monthly PP Load that the Authority served for the month.

   c. Each month, the Authority will allocate to the Customer's load served under the Agreement, as the Monthly REC Cost Component, a share of the Total Monthly REC Costs attributable to the Total Monthly PP Load. The Monthly REC Cost Component will be based on the proportion of the Customer's total kilowatt-hours load served by the Authority for such month to the Total Monthly PP Load served by the Authority for such month provided, however, that:

      a. the Monthly REC Cost Component to the Customer shall not include any costs associated with the Authority's inability to collect REC charges from other Authority customers; and
      b. the effective per-MWh rate of the Monthly REC Cost Component shall not exceed the per-MWh rate of a Monthly REC Cost Component based upon NYSERDA's then-applicable published REC price.

5. The Monthly ZEC Cost Component will be determined as follows:

   a. The cost of the total ZEC Purchase Obligation for all LSEs in the New York Control Area, including the Authority as a participating load serving entity, will be assessed pursuant to the methodology provided in the CES Order. The Authority will purchase its proportionate share of ZECs from NYSERDA based on the proportion of the

forecasted total kilowatt-hours load served by the Authority (i.e., total Authority LSE load) in relation to the forecasted total kilowatt-hours load served by all LSEs in the New York Control Area as provided in the CES Order. The ZEC Purchase Obligation may be based on initial load forecasts with reconciliations made at the end of each ZEC Program Year by NYSERDA.

b. Each month, the Authority will allocate costs from its ZEC Purchase Obligation between its power programs/load for which it serves as load serving entity, including the PP load that it serves (the "PP Program ZEC Costs"). Such allocation will be based on the forecasted kilowatt-hours load of the PP program to be served by the Authority in relation to the forecasted total kilowatt-hours load served by the Authority (total Authority LSE load) for each ZEC Program Year. In addition, any balance resulting from the ZEC Program Year-end reconciliation of ZEC Purchase Obligations will be allocated to the PP power program based on the proportion of the actual annual kilowatt-hours load served under such programs to total actual annual kilowatt-hours load served by the Authority (total Authority LSE load).

c. The Authority will allocate a portion of the PP Program ZEC Costs to the Customer's load based on the proportion of the Customer's actual kilowatt-hours load for the PP purchased by the Customer to total kilowatt-hours load served by the Authority under the PP power program (i.e., PP Program level load). In addition, any balance resulting from the ZEC Program Year-end reconciliation of the ZEC Purchase Obligation referenced above will be allocated to the Customer based on the proportion of the Customer's annual kilowatt-hours load purchased under this Agreement to total annual kilowatt-hours load served under the PP power program by the Authority (PP Program level load).

6. Each month the Monthly REC Cost Component and the Monthly ZEC Cost Component will be combined to produce a monthly CES cost component (the "Monthly CES Cost Component").

7. The Customer shall be subject to a Monthly CES Charge which shall be tied to the Aluminum Price (as defined in ST AL-1) as indicated in the following table, and calculated by multiplying the Monthly CES Cost Component by the applicable percentage listed in the table ("Applicable Percentage").

Aluminum Price ($/metric ton)	Base Rate ($/MWh)	Applicable Percentage[1]
Below 1,500	12.25	-
1,500 - 1,799	12.25	-
1,800 - 1,899	14.00	-
1,900 - 1,999	15.75	-
2,000 - 2,099	17.50	-
2,100 - 2,199	19.25	-
2,200 - 2,299	21.00	-
2,300 - 2,399	22.75	22%
2,400 - 2,499	24.50	39%
2,500 - 2,599	26.25	56%
2,600 - 2,699	28.00	72%
2,700 - 2,799	29.75	89%
2,800 - 2,899	31.50	100%
2,900 - 2,999	33.25	100%
3,000 - 3,099	35.00	100%
3,100 - 3,199	36.75	100%
3,200 - 3,299	38.50	100%
3,300 - 3,399	40.25	100%
3,400 and above	42.00	100%

8. Notwithstanding the foregoing, the Authority may, in its discretion, modify the methodology used for calculating the Monthly REC Cost Component and Monthly ZEC Cost Component upon consideration of such matters as Public Service Commission orders modifying or implementing the CES Order, guidance issued by the New York Department of Public Service, statutory enactments, and other information that the Authority reasonably determines to be appropriate to the determination of such methodology. The Authority shall provide Customer with reasonable notice of any modifications to the methodology or procedures used to determine and implement the Monthly REC Cost Component and Monthly ZEC Cost Component. Notwithstanding the foregoing, nothing in this section shall be interpreted as permitting the Authority to modify, eliminate, or otherwise frustrate Customer from receiving the full, specified discount off of the Monthly CES Charge tied to the Aluminum Price, as provided for in the preceding section.

9. Nothing in this Schedule C shall limit or otherwise affect the Authority's right to charge or collect from the Customer any rate, charge, fee, assessment, or tax provided for under any other provision of the Agreement, or any provision of the Service Tariff, or the Rules.

10. If the ZEC Purchase Obligation or the REC Investment Obligation is modified or terminated by the Public Service Commission or other controlling governmental authority (collectively, "Government Action"), the Authority shall modify or terminate the REC Cost Component, ZEC Cost Component and/or Monthly CES Cost Component, and assess any additional

[1] For the sake of clarity, the Parties acknowledge and agree that in any month that the Aluminum Price is less than $2,300 per metric ton, no Monthly CES Charge will apply to the Customer for such month.

charges or provide any credits to the Customer, to the extent that the Authority determines such actions to be appropriate based on such Government Action.

III. ALTERNATIVE COMPLIANCE PROGRAM

1. Nothing in this Schedule C shall be construed as preventing the Parties from entering into other agreements for an alternative arrangement for the Authority to meet the Annual REC Percentage Target with respect to the Customer's Allocation, including but not limited to Customer self-supply of RECs, alternative REC compliance programs and cost allocation mechanisms, in lieu of the Monthly CES Charge provided in this Schedule C (collectively, "Alternative REC Compliance Program").

2. The Authority shall communicate at least biennially with the Customer concerning implementation of the RES Compliance Program and potential Alternative REC Compliance Programs, if any, that the Authority is offering or expects to offer.

SCHEDULE D
PRESERVATION POWER ALLOCATION(S)

Customer: Alcoa USA Corp. **Type of Allocation**	**Allocation Amount (kW)**	**Facility and Address**	**Trustee Approval Date**	**Allocation Expiration Date**
Preservation Power	240,000	West Plant, as defined in the Agreement	March 26, 2019	March 31, 2026

Exhibit 6-A
March 26, 2019

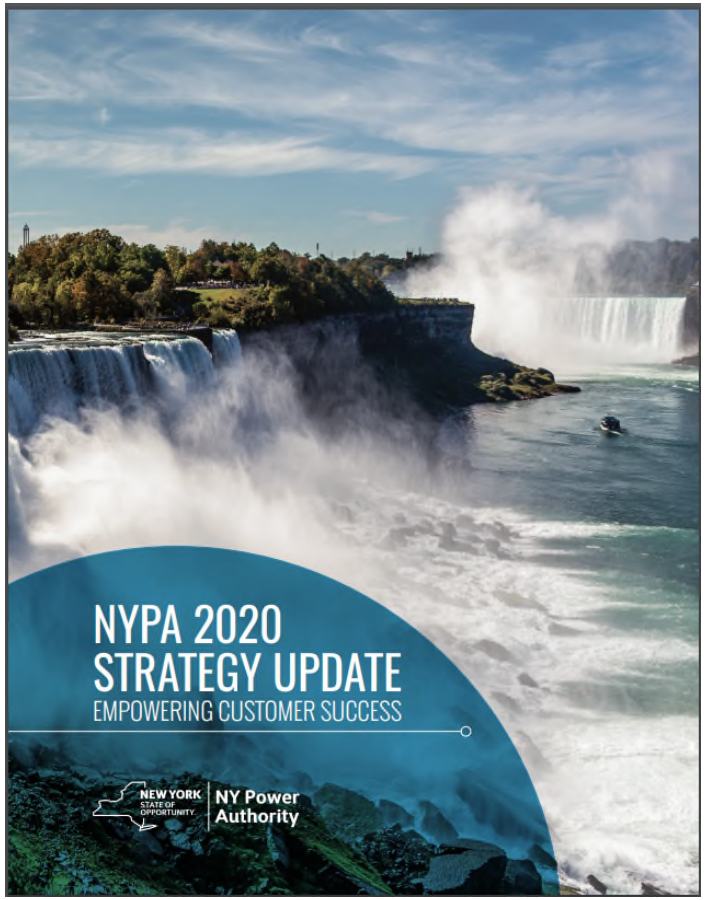
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Strategic Plan 2030
The climate change imperative

Bob Lurie - EVP and Chief Financial Officer
Matthew Lichtash - Electric Transportation Analyst
Carley Hume - Strategy Project Manager

March 26th 2019

NYPA is embarking on a groundbreaking new 2030 Strategy – but why now?



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Hungry for green power, tech giants choose between utilities, independent developers

AUTHOR
Iulia Gheorghiu
@IMGheorghiu

PUBLISHED
March 12, 2019

As tech companies and other large energy consumers are increasingly focusing on shifting toward a cleaner power supply, they face a choice to work with utilities or directly with developers.

Microsoft announced on Thursday a deal with developer Invenergy for a new 74 MW solar project in North Carolina. The company has been aggressively investing in renewable energy to power 60% of its data centers with renewable energy by early 2020.

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December 17, 2018 03:41 PM

Cuomo promises Green New Deal

Governor lauds FDR, calls federal regulators "impotent"

WILL BREDDERMAN

TWEET SHARE SHARE EMAIL PRI



Gov. Andrew Cuomo wants New Yorkers to see more green next year—especially those in the renewable-energy sector.

The governor on Friday pledged himself to the concept of a Green New Deal, which within a generation would have the state's power sector adding zero net carbon dioxide to the atmosphere. In a morning speech before the New York Bar Association, Cuomo outlined his 2019 agenda and frequently alluded to his

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We are in the middle of a six month process toward creation of the 2030 Strategic Plan – one that will involve engagement across all business units.



Define mission, vision and customer value proposition through interviews, research, and executive workshop.

Develop and prioritize strategies, investments and goals through executive workshop and rapid evaluation.

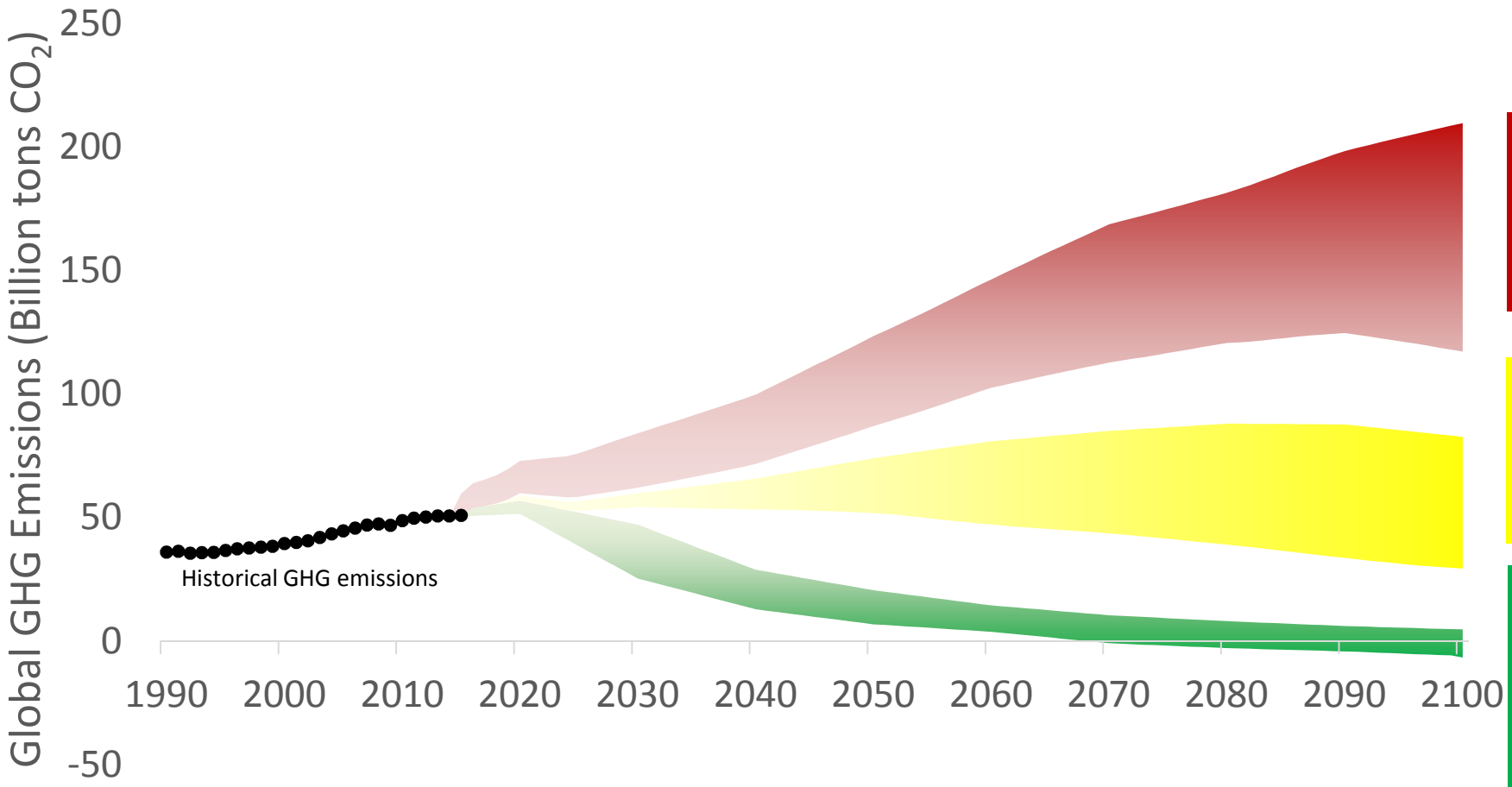
Internal and external stakeholder engagement.

Create 2030 Strategic Plan and strategic initiative high level business plans with cross business unit teams and SME support.

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How severe climate change is will depend on our actions over the next several years

2100 Warming Projections by Scenario

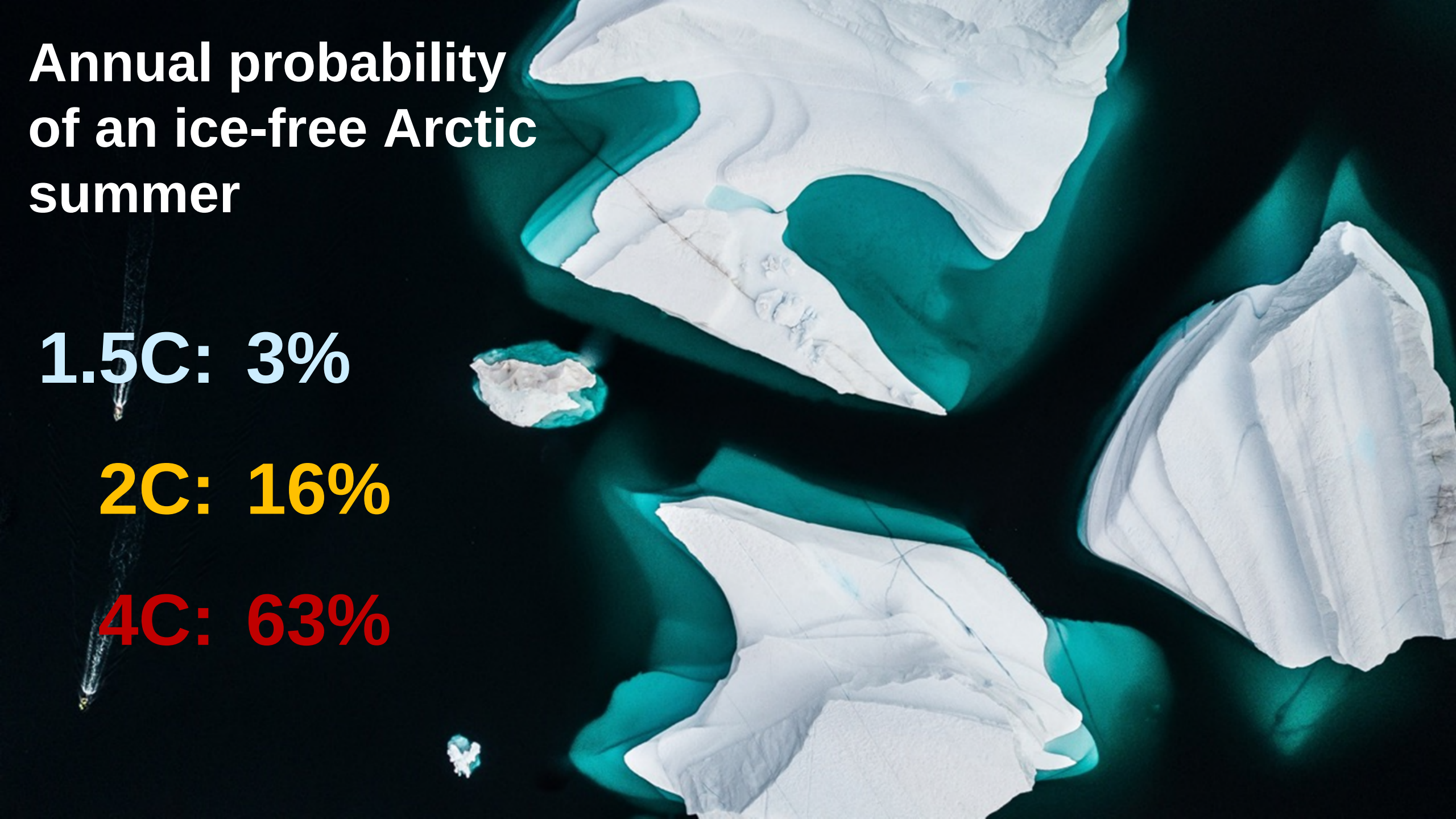


Baseline scenario (4°C+)
Projected emissions with no climate policies

Current Policies/Targets (3°C+)
Projected emissions based on current policies/pledges

Low Warming Path (1.5-2°C)
Projected emissions needed to avoid dangerous climate impacts

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Annual probability of an ice-free Arctic summer
1.5C: 3%
2C: 16%
4C: 63%

Climate change is fueling stronger storms. High-emissions pathways risk catastrophic impacts…while low-emissions pathways significantly reduce risk



1.5ºC:
Sandy once every 200 years

4ºC:
Sandy every other year



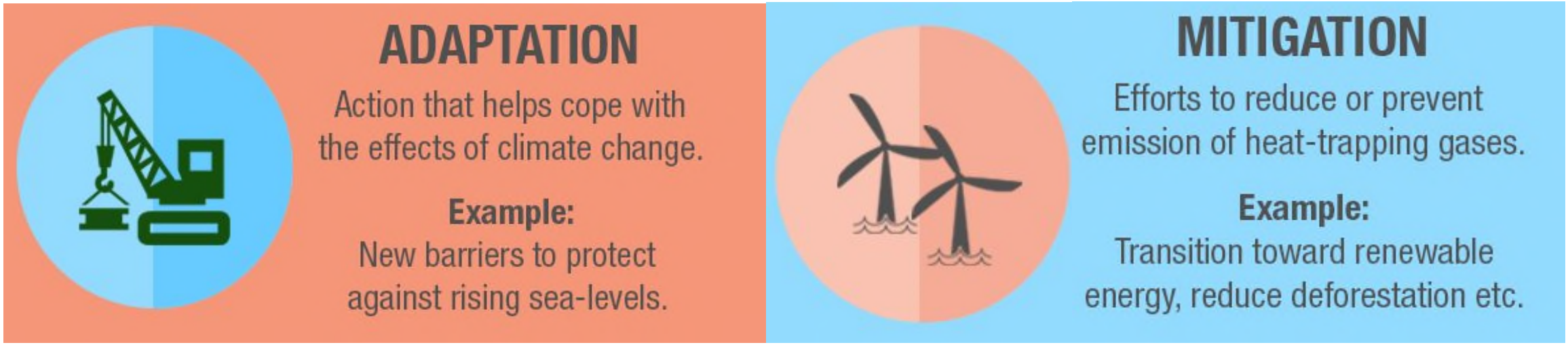
The difference between 1.5ºC… and 4ºC: submergence of key NYPA and customer assets



So what do we do?

The difference between 1.5ºC… and 4ºC: submergence of key NYPA and customer assets

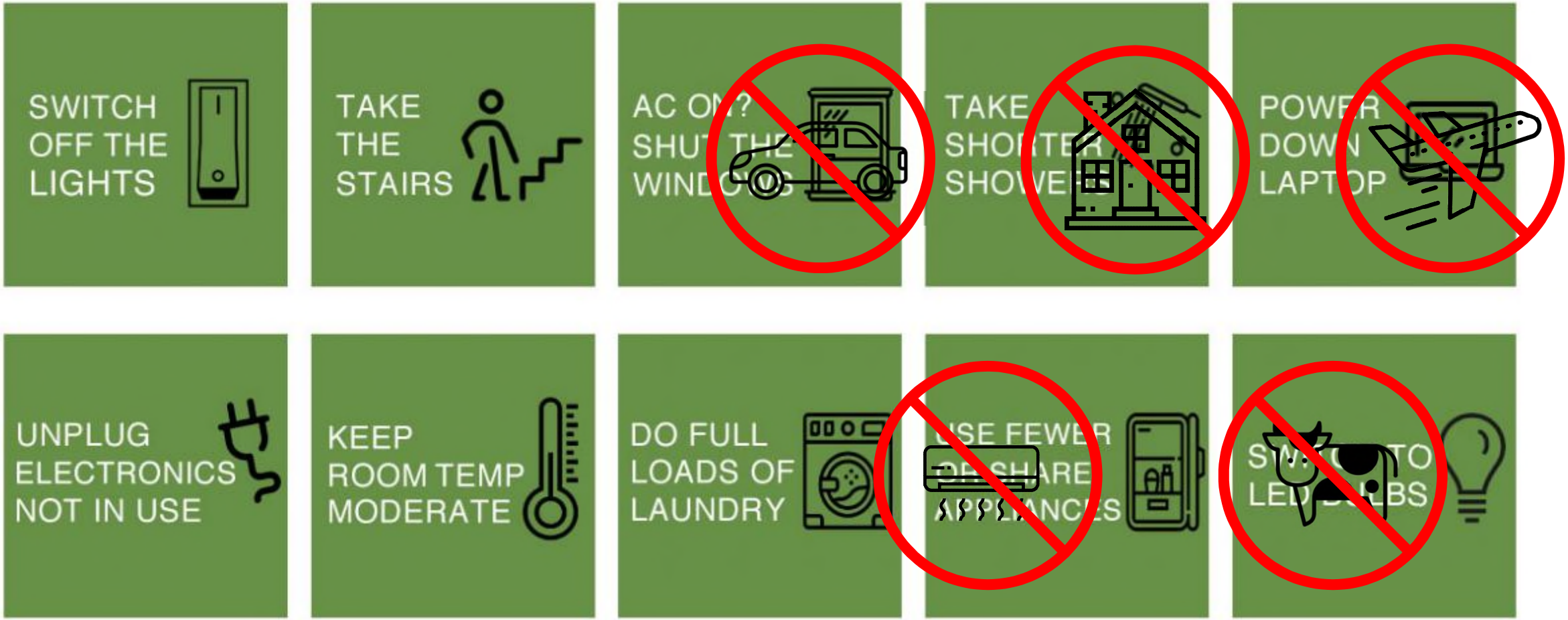
Climate change adaptation prepares us to ***manage*** the effects of climate change, while mitigation aims to ***prevent*** climate change.



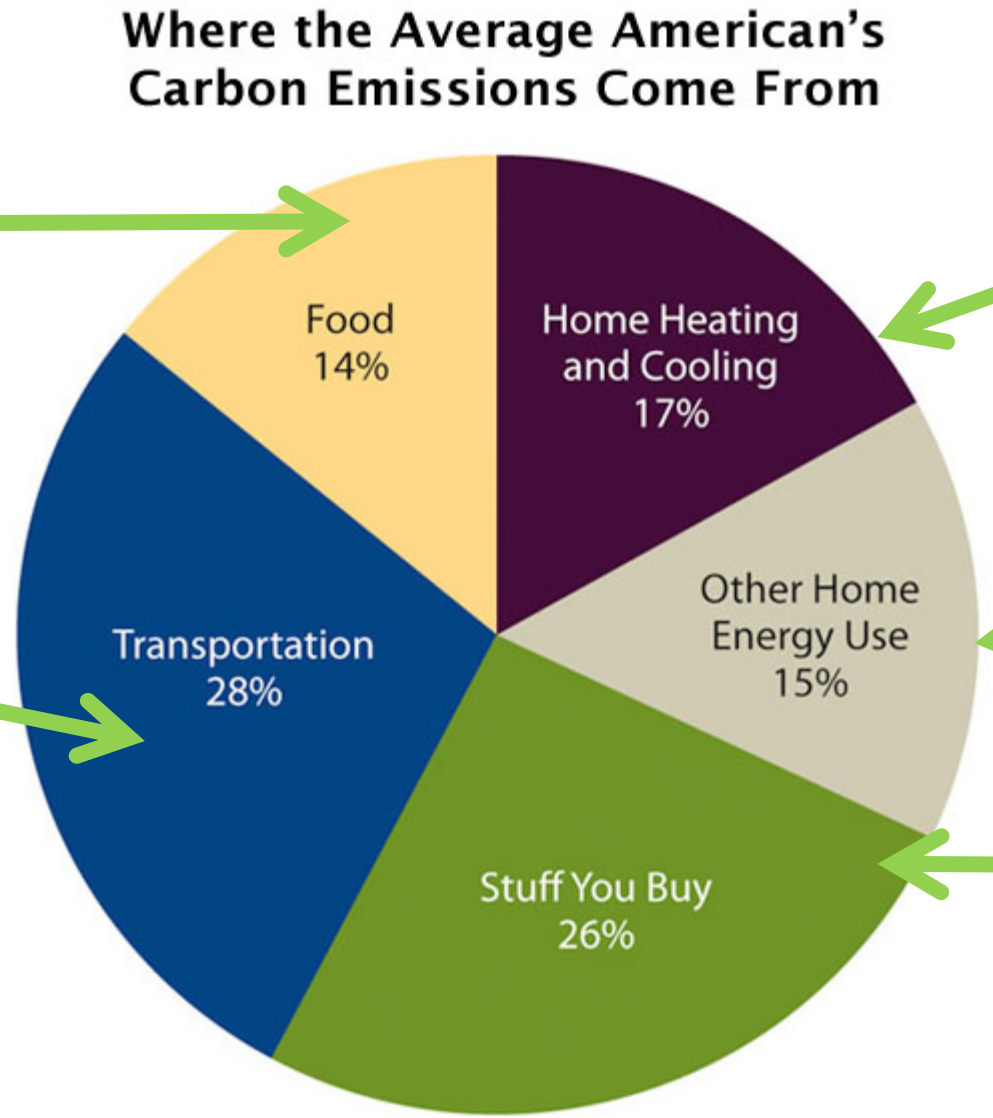
The optimal path forward will be a mix of mitigation and adaptation actions.

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So what are the personal mitigation actions we can all take today?



“Is there way to make mitigate climate change through additional personal impact without compromising quality of life?”



Meatless Mondays

Don’t let your spouse or kids touch the thermostat

Hybrid/ EV

LEDs

Buy less, buy used, buy responsibly

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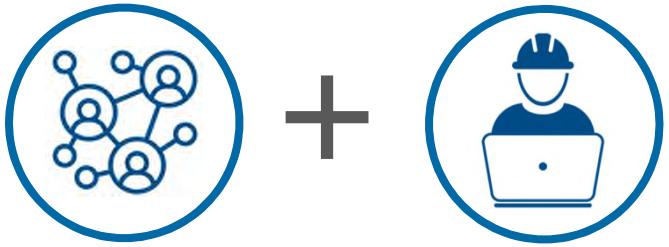
Personal mitigation at home is one way to address climate change – what opportunities are there to make an impact at scale?



NYPA is an organization where we can potentially mitigate global warming with impact at scale.



Low cost of capital + Longer term investment horizon + 80%+ carbon free electrons

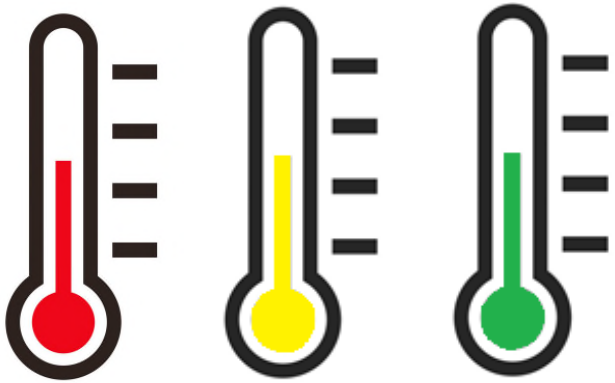


Trusted network of stakeholders + 1600 employees

In summary…



The climate is getting warmer



The severity will depend on our near-term path



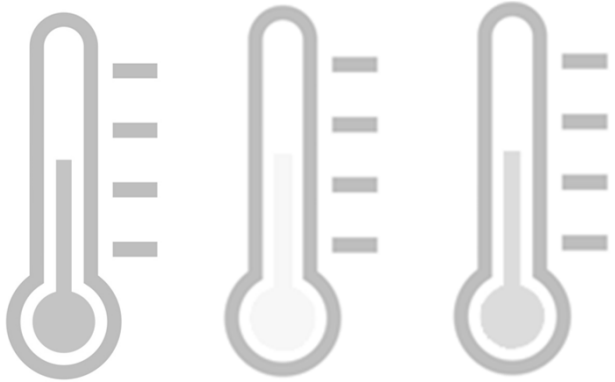
Its consequences could be severe and unpredictable



But at home, in our communities and, particularly, as leaders at NYPA, we can shape our future path and limit climate change

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In summary…



The climate is getting warme… …everity will depend on our near-term path

Q&A



Its consequences could be severe and unpredictable

But at home, in our communities and, particularly, as leaders at NYPA, we can shape our future path and limit climate change

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Resolution

Whereas, Robert F. Lurie, Executive Vice President and Chief Financial Officer, who is retiring from the New York Power Authority in April, has served with great distinction over the last seven years toward our statewide public power utility's financial wherewithal for the reliability of its generation and transmission facilities and providing low-cost electricity and energy services to a broad range of customers in New York State; and

Whereas, Mr. Lurie, who is highly esteemed by the NYPA Board of Trustees, Executive Management and other staff members, exemplified consistent leadership in the Power Authority's responsible financial management, which is recognized by the three leading credit rating agencies in NYPA's bonds and commercial paper being ranked among the highest credit quality of public electric utilities nationwide; and

Whereas, NYPA's success as a mainstay for the state's electric power system, economy and environment is correlated with Mr. Lurie's leadership over areas that included forecasting and budgeting, financial planning and controls, managing investment programs and debt, and enterprise risk and physical asset insurance-risk management; and

Whereas, Mr. Lurie, who joined NYPA in 2012 as Senior Vice President for Strategic Planning, had an enduring influence on the Power Authority in the development of its Strategic Vision 2020 Plan and Update, which established broad priorities and goals for aligning NYPA operations with Governor Cuomo's Reforming the Energy Vision strategy for transforming and modernizing the state's electric power system and expanding the integration of new clean, renewable power sources; and

Whereas, the strategic touchstones of those documents underscore the importance NYPA places on best practices for serving its customers, including embracing innovative digital technologies, for which Mr. Lurie has been a champion of in the Power Authority's application; and

Whereas, those technologies include three "moonshot" initiatives for the Power Authority's being a "first mover" in battery storage and electric-vehicle charging infrastructure, along with its setting the stage for offshore wind development in the state through comprehensive analysis of the European experience with such development, to learn from their best practices; and

Whereas, Mr. Lurie has been a strong advocate of data-driven and customer-centric methodologies for solving business issues and improving performance, as exemplified by his serving as the executive sponsor of Lean Six Sigma training at NYPA. The rigorous process, spearheaded by the Process Excellence group, has been a bulwark for reducing costs and delivering value to our customers; and

Whereas, Mr. Lurie has been an ardent supporter of military veterans, serving as executive sponsor of NYPA's Veterans Employee Resource Group, and repeatedly voiced in employee forums our gratitude for the service of veterans and the importance of looking out for them, including those suffering from post-traumatic stress disorder. The Power Authority's support includes its active participation as a member of the New York State Troops to Energy Jobs Consortium, which has helped to further our hiring of vets; and

Whereas, Mr. Lurie represented NYPA on an advisory body of leaders in the electric power industry—the Transformation Advisory Council—advising the Puerto Rico Electric Power Authority on long-term solutions for modernizing the island commonwealth's electric power system and making it more robust and resilient against future extreme weather events like Hurricanes Irma and Maria in 2017; and

Whereas, Mr. Lurie served as a member of the Research Advisory Committee of the Electric Power Research Institute, advising EPRI on key aspects of research, development and demonstration programs, and providing guidance on policies and issues that impact the power industry; and

Whereas, Mr. Lurie contributed to the Power Authority's reputation for environmental stewardship in serving on the boards of the Building Energy Exchange, a non-profit center of excellence dedicated to reducing the effects of climate change, and Urban Green, a non-profit New York affiliate of the U.S. Green Building Council;

Now Therefore Be It Resolved, that the Trustees of the New York Power Authority express their deepest appreciation to Mr. Lurie for all that he has accomplished at NYPA and wish him, his wife, Emily, and their wonderful family best wishes for many healthy, happy and rewarding years ahead.

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