



December 4, 2015

**BY EMAIL**

Hon. Kathleen H. Burgess  
Secretary  
State of New York  
Public Service Commission  
Empire State Plaza  
Agency Building 3  
Albany, New York 12223-1350

Re: Case 11-T-0068 - Application of Niagara Mohawk Power Corporation d/b/a National Grid for a Certificate of Environmental Compatibility and Public Need for the Reconstruction of Approximately 14 Miles of 115 kV Double-Circuit Electric Transmission Facilities from the Mohican Substation in Saratoga County to the Battenkill Substation in Washington County

Dear Secretary Burgess:

On behalf of Niagara Mohawk Power Corporation d/b/a National Grid (“National Grid”) pursuant to Ordering Clause 64 of the September 24, 2013 *Order Granting Certificate of Environmental Compatibility and Public Need and Clean Water Act §401 Water Quality Certification* (the “Order”) of the Public Service Commission (“Commission”) in the above-captioned proceeding, enclosed for filing are the *curricula vitae* of James Treacy (Environmental Monitor) and George Breen (Construction Inspector).

Also enclosed for filing are the *curricula vitae* of William F. Mullady and Brian K. McMaster, both of whom will provide support as Field Construction Supervisors, and Joshua M. Burgoyne, who replaces B. Scott Lundin as Agricultural Inspector as defined in Ordering Clause 92.

If you have any questions, please feel free to contact me or the Project Manager James Bunyan (at 518-433-3069 or James.Bunyan@nationalgrid.com).

Very truly yours,

*Lisa M. Zafonte*

Lisa M. Zafonte  
Senior Counsel  
Attorney for the Certificate Holder,  
Niagara Mohawk Power Corporation d/b/a National Grid

Enclosures

cc: David S. Morrell (DPS)  
Steven Blow (DPS)  
Larry S. Eckhaus (DEC)  
Diane B. Smith (DAM)  
Matthew J. Brower (DAM)



## JAMES TREACY Environmental Scientist

### Experience

ESS Group, Inc.: 2012 to present

Years of Prior Related Experience: 1

### Education

BS, Environmental Biology,  
Bridgewater State  
University, 2014

### Professional Certifications

New York State Erosion  
and Sediment Control  
Training (2015)

### Qualifications

Mr. Treacy is an environmental scientist that conducts various natural resource and ecological field investigations, including vegetative surveys and mapping, environmental monitoring, macroinvertebrate sampling and analysis, watershed and water quality assessments, and geophysical and geotechnical surveys.

Mr. Treacy completed New York State's environmental erosion and sediment control training course. The course was endorsed by the NYS DEC Division of Water's Bureau of Water Permits to satisfy training requirements associated with construction activity under the State Pollution Discharge Elimination System General Permit (#GP-0-15-002).

### Representative Project Experience

**National Grid – Mohican-Battenkill 115 kV Transmission Project, Washington and Saratoga Counties, NY.** Mr. Treacy provided field support for the preparation of an Article VII filing to the New York Public Service Commission for an approximately 14-mile long transmission line rebuild. He assisted with the development of the wetland mitigation plan required to satisfy the Army Corps of Engineers section 404 requirements and conducted field data collection for mitigation area construction

including water table data using data loggers that recorded water depth, temperature, and pressure during a several month period.

**Club Motorsports Inc. – Valley Motorsports Park Stream Flow Monitoring Program, Tamworth, NH.**

Mr. Treacy served as primary field staff responsible for implementation of a long-term monitoring program conducted in conformance with the project's Water Quality Certificate and USACE Wetland Permit conditions. Work included the collection of stream flow data at a remote mountain site in central New Hampshire. Over the span of two growing seasons, regular visits were conducted to install, maintain, and collect data from a weather station, soil thermometer, and temporary stream gages installed at more than 20 locations onsite. Data was used to determine the flow status and permanence of streams within the property to develop engineering designs for proposed stream crossings that are protective of environmental conditions and address project needs.

**West Point Partners, LLC – New York State Article VII, Hudson River, NY.**

Mr. Treacy was a member of the geotechnical survey team for project surveys of the Hudson River between Athens and Buchanan, New York. He provided on-board oversight for the collection of more than 50 vibracores and benthic samples to ensure that the cores were collected in a manner consistent with the NYDEC approved sampling protocols for the project. The information collected from this survey was instrumental in identifying potential impacts of the submarine electric transmission line as part of the New York Article VII permit filing for the project.

**U.S. Navy – Turbidity Monitoring, Wharf Reconstruction, Naval Station Newport, RI.**

Mr. Treacy was a team assigned the task of ensuring water quality compliance would be maintained in accordance with the USEPA approved permit during offshore construction work being performed by contractors working for the US Navy. Mr. Treacy was responsible for the mobilization and deployment of solar-powered, remote sensing buoys equipped with YSI turbidity sondes to monitor the water clarity outside of an active dredge construction site. He was also responsible for monitoring and checking real-time turbidity data as it was reported and maintained the sonde via regular site visits. If water quality was found to be out of compliance with the allowable thresholds for the project, Mr. Treacy worked to alert the

appropriate ESS and Contractor personnel to ensure that the issues could be rectified immediately to minimize the threat to the environment and to allow construction to resume as quickly as possible.

**Wilcox and Barton – Guilford Commons Construction, Guilford, CT.** Mr. Treacy was part of a multi-year construction monitoring program associated with the development of a 139,000 sf commercial retail development project in Guilford, CT. Work on this project was heavily conditioned by local permitting authorities to include on-site water quality and biological assessments before, during and after construction to ensure that stormwater erosion from the project site did not negatively impact the adjacent stream. Mr. Treacy participated in on-site water quality monitoring studies, storm water sampling, and assisted in fish identification by electro-shocking. He was also responsible for collecting benthic samples and supported sorting and identification of benthic organisms. Also assisted with laboratory data reporting and was responsible for algal sample collection.

**Northeast Utilities –Long Island Submarine Cable Replacement Project, Norwalk, CT.** Mr. Treacy was responsible for the infaunal sampling program for the submarine cable post-construction monitoring program and for compliance with the requirements of the Connecticut Department of Environmental Protection-approved protocol. This included identification of benthic macroinvertebrates and reporting for a 24-month period and preparation of a Final Summary Reports to document impacts, if any, to benthic and shellfish resources near the submarine replacement cables.

**Aquatic Control Technology – Town of Natick - Dug Pond.** Mr. Treacy collected water samples on a bi-weekly basis to test the dissolved phosphorus and total phosphorus levels in Dug Pond throughout the summer. Also assisted in reporting the laboratory data and the collection of water quality information.

**Rhode Island Department of Environmental Management – Cyanobacteria Monitoring and Statewide Stream Habitat Assessment and Biomonitoring, RI.** Mr. Treacy was responsible for stream health assessments at over 24 locations throughout Rhode Island in support of the data collection and assessments for a state-wide monitoring program. Data collection was performed in strict accordance with a project-specific Quality Assurance project Plan (QAPP) approved by the USEPA. Information was developed to document water quality, chlorophyll-a in stream substrates and to characterize the composition of stream substrate. Stream canopy cover was documented and benthic macroinvertebrate samples collected and analyzed to record freshwater macroinvertebrates at stream locations throughout the state.

**Town of Wellesley – Phytoplankton and Water Quality Monitoring of Morses Pond, Wellesley, MA.** Mr. Treacy was responsible for in-lake water quality monitoring at 103 acre Morses Pond under a 3 year program to understand recurring algae blooms that can result in significant degradation of water quality and beach closures. Under the program he was responsible for alerting the project manager when water quality conditions approached public health criteria, allowing the client to appropriately adjust their management program.

**Cape Wind Associates, LLC – Cape Wind Offshore Renewable Energy Generation and Submarine Cable Project Geophysical and Geotechnical Surveys, Nantucket Sound, MA.** Mr. Treacy provided on-board environmental oversight of a vibracore survey program associated with an extensive geotechnical program that was be used to develop the final engineering design of the 130-turbine Cape Wind offshore wind project. Mr. Treacy worked to ensure that any issues with the coring was reported back to ESS and the client so that any issues could be resolved quickly. The geotechnical program included collection of vibracores, seabed and deep cone penetrometer testing, and deep boring.

## George Breen

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**Professional Profile** 30 plus years in the electrical industry, divided between the construction and utility portions of the electrical disciplines. The majority of my experience is in the management and supervision of personal along with budget, safety and performance.

### Experience

#### **2/15 to present Transmission Line Services Supervisor Field Construction Management**

Provide technical expertise, contract interpretation and direction to National Grids' line construction contractors' personnel to ensure standards of safety, contract specifications and environmental compliance are developed and consistently followed on contract job sites. I work closely developing outage plans with National Grids'; Operations, Engineering, & Project Management teams and administer the Clearance and Control procedures with contract personnel.

#### **1/09-2/15 Substation Construction Outsource Along with Distribution Line (Contracted) Supervisor**

Supervised contractors with the installations of substations The largest was the new 40 million dollar Eastover Station in Schaghticoke N.Y.

Within this time I was assigned a 19 mile rebuild of 34.5kv Sub transmission line along with distribution line projects.

#### **12/07-1/09 In House Construction Supervisor Eastern Division N.Y.**

I had the responsibility for setting up the Substation Construction unit for National Grid Eastern division. This included hiring personal, tooling, vehicles and project management.

#### **10/04-12/07 Substation Maintenance Supervisor Albany N.Y**

Responsible for maintenance and construction of stations within the capitol division supervising a 30 person union work force.

#### **10/02-10/04 Substation Maintenance Mechanic**

Performed all aspects of substation construction and maintenance.

#### **02/90-10/02 LaCorte Electric**

##### **General Superintendent**

Responsible for all aspects of the construction division. I had the responsibility for hiring personal. The training and development of a 200 plus non union force. Project over site and budget.

#### **02/83-2/90 Stilsing Electric**

Construction Electrician

#### **10/80-2/83 Amtrak**

Rail Electrician

### **Education**

A.O.S in Electrical Construction at Hudson Valley

**Licenses.**

Massachusetts Electrical licenses

City of Troy N.Y. Electrical licenses

New York State Electrical crane licenses

- **CPR/Medic First Aid Certified**
- **CSX/Amtrak Certified Worker**
- **Clearance & Control Qualified**
- **NYS CDL License**

# **William F. Mullady**

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## **EXPERTISE**

Emergency Management  
Negotiation/Union Relations  
Supervision

Project Management  
Purchasing

Training/Development  
Executive Presentations

## **EXPERIENCE**

**BPhase Utility Consultants LLC. Independent Contractor to CHA Companies July 2015-Present**

**TRC Engineering, Construction Manager May 2012-July 2015**

### **Construction Management**

*Responsible for overseeing and coordinating construction activities on a variety of Transmission projects including a 33 mile 115kV New York state article 7 project which crossed major highways, railroad lines, rivers, transmission, sub-transmission and distribution lines. Portions of this project also required work in a very mountainous and environmentally sensitive area. Also worked on several conductor clearance/maintenance projects, some utilizing bare-hand work methods.*

- Responsible for developing and implemented a switching plan for a very complex outage and switching scenario which involved multiple large sub-stations and very critical customers including a US Navy nuclear facility and a large micro chip fabrication complex. All the outages were completed with no incidents and 9 days ahead of schedule
- Responsible for coordinating activities between project management, engineering, environmental, the contractor and sub-contractors
- Responsible for assuring high standards for safety, security and environmental compliance
- Participated in the closing and documentation of an article 7 project

**National Grid, Eastern Division, Schenectady and Saratoga Operating Districts April 2009-March 2012**

*Responsible for normal and emergency operation of the Distribution and Sub-Transmission for National Grid's Schenectady (2009-2011)/Saratoga(2011-2012) Operating Districts*

- Supervise Line Crews ensuring compliance with all National Grid Policies
- Responsible for training New Supervisors
- Responsible for training and orientation of a new Graduate Development Program employee

**Pro Limited, City, New York**

**Project Manager, January 2009-March 2009**

*Responsible for the permanent repairs for the Ice Storm Restoration for National Grid's Eastern Division*

- Reduced the number of electrical feeder to be inspected from 450 to 300
- Coordinated the inspection of 300 electrical feeders encompassing a large section of Eastern New York
- Supervised the distribution of 250 work packets produced by the inspection process to in-house and contractor crews
- Established a work flow process taking completed work packets and closing and/or directing them to engineering for final documentation

**National Grid, Capital West Region, Schenectady, New York  
Manager Overhead Operations September 2007-October 2008**

*Responsible for the normal and emergency operation of the Distribution and Sub-Transmission for National Grid's Capital West Region*

- Supervised 67 employees and 6 supervisors for normal and emergency operations

Mullady

- Increased employee morale and trust by improving the crews' office environment, assembly area and maintenance material storeroom. Paved and reorganized outside storage for the facility
- Improved training opportunities for apprentices
- Established discipline for the scheduling process and work projects during company reorganization
- Increased vehicle utilization and capitalization of work projects by 3%

### **National Grid USA**

#### **Coordinator Overhead Lines, September 2002-September 2007**

*Provided support for the operations, maintenance and construction of National Grid's overhead systems*

- Directed National Grid's New York Contingent to Florida and Alabama for the restoration of power from storm damage
- **US Transmission Grounding Committee**  
Responsible for developing a common transmission grounding procedure
- **Leader in the National Grid USA Tool Committee**  
Made recommendations based on the investigative results for the procurement of new and existing tools
- **Team Member of the Niagara Mohawk 15kV Rubber Glove Committee**  
Developed and implemented the training program for the proper handling of energized electrical conductors above 5000 volts. The training program was negotiated with IBEW Local 97.
- Member of the Clearance and Control Committee NG EOP G014
- Member of the National Grid USA Overhead Advisory Training Committee
- Member of the National Grid USA Distribution Grounding Committee
- Member of the New England Joint Union/Management Committee

#### **Niagara Mohawk Saratoga Springs, New York June 1991-September 2002**

*Managed the daily and emergency operations of the electrical system in the Saratoga District*

- Supervised the crews who connected large construction projects with appropriate power and other utilities including K-Mart, Hannaford, BJ's Wholesale, Home Depot and Target retail stores, numerous housing projects, widening of Route 50 and the Saratoga National Cemetery
- Led the National Grid's contingent (5 to 15 crews) in various storms throughout the Northeast and Puerto Rico for the restoration of power systems from storm damage

#### **Niagara Mohawk IBEW local 1369 (Line Mechanic Hot Stick: 1971-1991)**

- Line Mechanic Hot Stick (1973-1991)
- Various positions Temporary Groundman, District Office Clerk AT, Rural Meter Reader and Auxiliary Operator C

#### **EDUCATION:**

Empire State College, Saratoga Springs, New York  
Northeastern University, Boston, Massachusetts  
Hudson Valley Community College, Troy, New York



# Brian K. McMaster

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**Professional Profile** Recently retired Operations Manager with over 32 years of broad electric utility experience. Managed a results oriented team with a consistent record of exceeding expectations in construction metrics, budget and safety performance.

## Experience

**July 2015-Present**

**Power Project Management Assoc., LLC  
Independent Contractor to CHA Companies**

**Ballston Spa, NY**

**April 2014-June 2015**

**TRC Solutions, Inc**

**Liverpool, NY**

### Field Construction Management

Provide technical expertise, contract interpretation and direction to National Grids' line construction contractors' personnel to ensure standards of safety, contract specifications and environmental compliance are developed and consistently followed on contract job sites. I work closely developing outage plans with National Grids'; Operations, Engineering, & Project Management teams and administer the Clearance and Control procedures with contract personnel.

**Please see detailed Key Accountabilities on page 3**

**August 1999-December 2013 (Retired)**

**National Grid USA**

**SaratogaSprings, NY**

### Manager Overhead Lines- Northeast Region

Responsible for the execution of our regional work plan in support of Divisional and Corporate goals. I also have substantial emergency response/restoration experience in managing the workforce and meeting customer expectations for service and reliability.

I was responsible for the safe, reliable operation, maintenance and construction of the Sub-Transmission and Distribution system within the Northeast Region of NY, which encompasses four operating districts dispersed in five upstate NY counties, serving 100,000+ customer base.

I managed 9 direct reports with a combined organizational compliment of 110 Union Craftworkers. Additionally, I was responsible for management of the Eastern Division Inspection & Maintenance program, completing Regulatory Mandated inspections programs on the distribution, transmission and sub-transmission systems with an additional staff of 12 inspectors.

**August 2007-February 2008**

**National Grid USA**

**Albany, NY**

### Division Manager Electric Operations

Assumed Eastern Divisional operational responsibilities for the overhead and underground transmission and distribution group during reorganization, which incorporated eight operating districts throughout eastern New York.

**Experience Continued**

**August 1990- August 1999**

**Niagara Mohawk Power Corp. Saratoga Springs, NY  
Supervisor Transmission and Distribution**

I was responsible for managing the day to day operations of the electric system, in the Saratoga District. My primary function was to allocate resources to satisfy internal and external customer demands for timely, cost effective and quality service. Provide direction of the work force in a safe and efficient manner during the restoration, operation and maintenance of the electric system. Coordinating short and long term projects from design through construction. Assure the safety of the public, and manage resources within budget and operational performance goals.

**July 1997-December 1997**

**Niagara Mohawk Power Corp. Syracuse, NY  
Business Process Analyst-Operations Reengineering**

Analyzed processes and developed business plans for the redesign of storm, maintenance and locating processes, to establish operational excellence and maximize value to the corporation.

**October 1982- July 1990**

**Niagara Mohawk Power Corp. Syracuse/Oswego/Albany, NY  
Quality Assurance Engineer**

Worked as a staff Quality Engineer during the development and expansion of the Non-Nuclear Quality Assurance Department. I developed and supported various quality programs including; Failure Analysis and Trending, Receipt Inspection Program. Environmental Auditing, Hydro Construction and Maintenance, Contractor/Supplier Auditing. I also had certification in many Non-Destructive Testing techniques, past AWS, Certified Weld Inspector.

**Certifications**

- Clearance & Control Qualified
- NYS CDL License
- ICS trained and certified level III
- CPR/Medic First Aid Certified
- CSX/Amtrak Certified Worker

**Education**

**State University College at Buffalo**  
Buffalo, NY  
Bachelor of Science, Industrial Engineering Technology, Fall 1981

**Hudson Valley Community College**  
Troy, NY  
Associate of Applied Science, Mechanical Technology ( HVAC Design) 1979

**Field Construction  
Management Key  
Accountabilities**

- Work closely with PM&CC department management, engineering, operations, contract personnel and others to develop a construction work plan that closely coincides with and facilitates timely effective completion of projects assigned in the construction contract work plans.
- Take a proactive role interfacing with district customers, engineering, design, and other interested groups to fully understand contract program needs and ensure that promised commitments are delivered on time and within budget.
- Participate in construction conference calls and meetings to report on status of assigned construction projects and maintenance work. Ensure safe and reliable construction and maintenance of the transmission systems consistent with company goals, objectives and policies, in full compliance with existing and relevant emerging government codes and regulations.
- Coordinate with department supervisors, field contract personnel, contractors and others to ensure that transmission line construction and maintenance work is scheduled in a timely manner to support and complement internal and external construction work to meet high quality work standards and construction practices.
- Document contract crew activities, prepare and present periodic oral and written update reports and verify the accuracy of contractor invoicing
- When required provide input to Incident Analyses and prepare and present periodic oral and written reports
- Assure that assigned field personnel are properly directed, trained and evaluated within Company guidelines and procedures, and environmental and safety regulations are consistently followed.
- Assure that required equipment, materials and tools used by assigned personnel are available and stocked.
- Coordinate with internal and external resources for pre-bid and pre-construction meetings as required.



## JOSHUA M. BURGOYNE Environmental Scientist

### Experience

ESS Group, Inc.:  
2015 to present

Years of Prior Related  
Experience: 2

### Education

BS, Environmental Science  
and Management,  
University of Rhode Island

### Professional Certifications

New England Onsite  
Wastewater Treatment  
Training

### Affiliations

Pawtuxet River Authority

### Qualifications

Joshua Burgoyne is an Environmental Scientist with background concentration in wetland science. Mr. Burgoyne has experience includes wetland delineation/identification, field botany, soil profile analysis, hydrologic/water quality assessment, environmental impact/site assessment, wildlife biology, GIS/remote sensing and customer service.

As a biologist for the Rhode Island Department of Environmental Management in the Freshwater Wetlands program, Mr. Burgoyne coordinated and conducted field inspections to evaluate stormwater management and erosion/sediment controls, check wetland regulatory compliance, perform biological assessments and manage wetland restoration. He routinely interacted and coordinated with farmers, other landowners, construction contractors, and businesses regarding environmental matters and compliance with regulations throughout all phases of the construction process. His knowledge and experience also extends to water pollution and onsite wastewater treatment programs.

### Representative Project Experience

**National Grid, Clay-Teall 115kV Transmission Line Article VII – Onondaga County, NY.** Contributed to the evaluation of wetlands for potential staging areas for the project and assessment of mitigation areas an Article VII filing to the New York Public Service Commission. The project is an 18 mile long 115 kV electric transmission reconductoring project that will reinforce the National Grid transmission system and the New York grid.

**Rhode Island Department of Environmental Management – Office of Compliance and Inspection, RI.** Senior Natural Resources Specialist responsible for conducting wetland and biological field inspections for Freshwater Wetlands, Water Pollution, and Onsite Wastewater Treatment Systems programs. Delineated and classified wetlands based on vegetative community, presence/absence of hydric soils, and hydrology. Assisted businesses and property owners in achieving and maintaining regulatory compliance. Reviewed permit applications, construction plans, site aerial photo history, draft correspondence, biological site assessments/reports, and detailed site sketches. Served as project manager for wetland restorations on all types of properties including farms, new construction sites, commercial and residential properties, represented the Department at meetings and hearings, and responded to complaints of violations from the public.

**Massachusetts Department of Public Health – Arbovirus Program, Boston, MA.** Laboratory/Field Technician responsible for setting and retrieving CDC mosquito traps in wetland habitat throughout Massachusetts. Identified mosquitoes to species level, submitted potential disease vectors to lab for EEE/WNV testing, maintained trapping equipment and state vehicles. Evaluated and chose trap sites based on wetland habitat type and breeding potential

**Mason & Associates –Wetland Services Support, Scituate, RI.** Wetland Technician responsible for supporting wetland delineations, restorations, invasive species control, and identifying plant species. Used Northeast Regional wetland soil indicators to determine wetland-upland boundaries.

**Narragansett Bay Estuary Program – Narragansett, RI.** Research Intern responsible for conducting analysis of coastal imagery and created maps of macroalgae density in Narragansett. Assisted with EPA-

funded stormwater system upgrades, pavement removal and native planting to improve water quality in Roger Williams Park ponds, coordinated outreach and volunteer efforts.

**National Parks Service Northeast and Mid-Atlantic Regions, Kingston, RI.** Biological Technician responsible for uploading and managing data from park archives to the NPS Data Portal for widespread access. Collected field data for salt-marsh monitoring project, monitored sea level rise on salt marshes. Used acoustic data loggers to monitor frog populations in vernal pools, isolated calls using software.

**Pawtuxet River Authority – Pawtuxet River Watershed Improvements, Pawtuxet, RI.** Associate Board Member responsible for writing grant proposals and plans for projects including anadromous fish passages, water quality assessments, boat ramps, and other site improvements within the Pawtuxet River Watershed. Collected water samples and data for assessment/restoration project at Tongue Pond in Cranston. Assisted in managing Facebook page to address and disperse information to the public.

**University of Rhode Island Natural Resources Science Department, Kingston, RI.** As Volunteer Research Assistant investigated small and medium sized mammal biodiversity on coffee farm landscapes in Costa Rica. Set up and conducted daily live trapping survey and vegetation analysis on several 500x500m grids. Took and preserved specimens and biological samples for PCR and morphological analyses. Used mist-nets to survey bird populations and GPS for navigation.

**SAFE Project – Oil Palm Plantation Studies, Sabah, Malaysia.** Volunteer Research Assistant responsible for conducting field work and supervising field assistants for three studies on an oil palm plantation. Surveyed and identified amphibians, fish, and macroinvertebrate populations. Measured changes in water quality/primary productivity across a gradient of land-use change.