



**Lockport-Batavia Line #112  
Rebuild Project**

**Appendix W**

**Inspection and Monitoring**

## **INSPECTION AND MONITORING**

During construction of the project, inspector/monitor(s) will be employed as required by the Certificate Conditions to ensure that all Certificate Conditions and EM&CP requirements, plans and specifications are appropriately adhered to. The qualifications and duties of each inspector/monitor are provided as follows.

### **1) Environmental Inspector**

Environmental Inspector(s) as required by the Certificate Conditions will be employed full-time on the project during construction and restoration.

#### **Qualifications**

- Sufficient knowledge and experience to manage the environmental compliance procedures described in the EM&CP; and
- A four-year degree in forestry or related environmental discipline or a demonstrated equivalent knowledge, in either case including courses in ecological sciences and experience in environmental construction inspection; and
- Necessary qualifications consistent with a “Qualified Inspector” pursuant to the SPDES General Permit.

#### **Responsibilities**

- Monitoring all reconstruction activities, including clearing, access and drainage improvements/installations, structure removals, replacement structure installations, wire-stringing, installation and maintenance of temporary erosion controls, work involving wetlands, streams, agricultural lands, etc.;
- Monitoring and supporting compliance with the environmental management and protection requirements specified by the EM&CP, 401 Water Quality Certificate, and applicable U.S. Army Corps of Engineers (“USACOE”) Permits;
- Performing or coordinating the role and responsibilities of the agricultural inspector in order to address all EM&CP requirements for work involving affected agricultural lands;
- Providing Staff and National Grid’s project team personnel with weekly status reports summarizing construction and indicating construction activities and locations scheduled for the next two weeks;
- Organizing and conducting site compliance audit inspections for DPS Staff, with the construction inspector, agricultural inspector (as applicable to affected agricultural lands), and other project team personnel;
- Processing EM&CP Notices of Change with DPS Staff;
- Coordinating NYSDPS, NYSDEC, Ag & Mkts, and USACE and USFWS inspections of the project;
- Monitoring and managing all environmental protection requirements of the EM&CP and closely coordinating same with the construction inspector and Contractor; and
- Monitoring Contractor compliance with the provisions of the Certificate and permits, applicable sections of the Public Service Law, and the EM&CP.

## **2) Contractor Construction Inspector**

The Contractor Construction Inspector(s) will be employed full-time on the project as required by the Certificate Conditions.

### **Qualifications**

- Ten years of experience in transmission overhead line or substation construction and the operation and maintenance of transmission facilities with a strong understanding of the applicable construction standards and work methods;
- Knowledge of federal, state, OSHA, local, and applicable environmental rules and regulations;
- Strong interpersonal and leadership skills with self-direction and high motivation;
- The ability to understand construction field issues, prints specification sheets, schematics, one-line diagrams, and instructional information to construct, maintain, and troubleshoot transmission lines and substation equipment;
- A thorough understanding of electrical principles and the hazards associated with electrical transmission work;
- A good mechanical aptitude;
- Knowledge of applicable maintenance practices, safety requirements, and labor contracts;
- The ability to travel throughout the service territory and work extended hours and weekends in emergency situations, as needed;
- Strong communications skills (both verbal and written);
- Strong interpersonal skills;
- Listed on National Grid's Clearance and Control list; and
- NERC CIP Clearance or the ability to meet this requirement.

### **Responsibilities**

- Providing proactive leadership and direction to Contractor personnel to ensure that high standards of safety, security, and environmental compliance are developed and consistently maintained;
- Working closely with personnel to ensure development of a complete Work Proposal, including construction work plan, detailed schedule S&H plan, and outage plan;
- Ensuring that resource needs are adequately identified and assigned to fully support the construction contract work plans, schedule, and budget;
- Taking a proactive role interfacing with the appropriate individuals to fully understand contract program needs and ensure that promised commitments are delivered on time and within budget;
- Participating in construction conference calls and meetings to support the provision of weekly updates and reports;
- Assuring that assigned personnel are properly directed, trained, licensed, and evaluated within National Grid's guidelines and procedures;
- Maintaining a thorough understanding of department emergency response procedures to help arrange and provide resource support as needed; and
- Coordinating with internal and external resources for pre-construction meetings, as required.

## **3) Contractor Safety Inspector**

A Contractor Safety Inspector will work part time on the project and will be present full time for any higher risk procedures (helicopter work or areas with multiple line crossings) that will be conducted.

## **Qualifications**

- A bachelor's degree -- preferably in Safety Management or a related science or engineering discipline;
- Five to seven years of professional safety experience;
- Five to seven years of experience in electric and/or gas operations or in a related industry, preferably in a supervisory or leadership role;
- Certification as a safety or occupational health professional (preferred);
- Certification as a Certified Safety Professional or other equivalent recognized credential;
- Knowledge of federal, state, and local safety and health laws and regulations;
- Knowledge of electric and gas operations;
- Knowledge of National Grid's policies and procedures;
- Knowledge of industrial hygiene principles;
- Excellent proven interpersonal skills coupled with the proven ability to lead in connection with various broad occupational safety and health principles in a constantly changing work environment;
- Excellent oral and written communication skills;
- A demonstrated ability to manage multiple high-priority tasks and engage in complex problem-solving;
- Knowledge of management principles, especially as they relate to organizational behavior and statistical analysis;
- A demonstrated high level of ethical behavior; and
- Excellent judgment and decision-making skills.

## **Responsibilities**

- Assisting in the establishment and implementation of regulatory compliance and incident-prevention activities regarding the safety and health of employees, Contractor and subcontractor personnel, and the public as they interact with National Grid's operations;
- Assisting management and directing safety specialists in analyzing any serious incidents; and
- Advising management in problem solving/decision making to eliminate hazards and to develop incident-prevention and regulatory compliance programs in order to reduce incidents that may lead to personal injury and property damage.

### **4) Quality Assurance Inspector**

One Quality Assurance Inspector will be employed part time on the project as needed.

## **Qualifications**

- A bachelor's degree and a minimum of (3) years experience in a quality assurance role; or an equivalent combination of technical education and training and a minimum of (8) years experience in a quality assurance role;
- Experience working with continuous improvement teams, leading or team member;
- Ability to undertake tasks with limited supervision;
- Demonstrated analytical skills with the ability to evaluate and produce routine reports;
- Proficient computer skills;
- Ability to collect, enter, analyze, track and produce data;
- Demonstrated organization and planning skills, with the ability to schedule and perform quality audits across internal and external functions;

- Demonstrated oral and written communications skills;
- Demonstrated leadership skills with self direction and high motivation;
- Demonstrated problem solving skills with the ability to solve complex issues;
- Knowledge of performing ISO or audits of other registered auditing bodies; and
- Familiarity with construction job sites that may be in harsh climates and/or terrain, in controlled conditions, and/or require the use of Personal Protection Equipment.

### **Responsibilities**

- Performing quality audits on electrical transmission lines and electrical substations construction projects as applicable to the project;
- Verifying that construction field work complies with the criteria per National Grid's construction specification;
- Writing and publishing reports detailing results of field construction audits;
- Issuing and tracking non-conformances for items found not meeting the required specification;
- Requiring submission of corrective and preventive action for non-conformances found;
- Working closely and collaboratively with construction field crews, system delivery and project management to validate that a system of controls and procedures is in place and to evidence that adherence to those controls and procedures is documented in a systematic and orderly manner;
- Updating any instructions/documents to reflect the current process;
- Identifying "opportunities for improvement";
- Participating in conference calls and meetings; and
- Writing work instructions and in-process quality statistical reporting forms and charts to support the quality program.

### **5) Agriculture Monitor**

One part time Agriculture Monitor will be employed by National Grid or a contractor thereof as needed for review of the construction and restoration of agriculture areas on the project. If qualified and approved by DPS Staff and NYSDAM, the Environmental Monitor may perform the duties of the Agriculture Inspector.

### **Qualifications**

- Sufficient knowledge and experience to manage the agriculturally-related environmental compliance procedures described in the EM&CP; and
- A four-year degree in agricultural science, environmental science or a related discipline or demonstrated equivalent knowledge, in either case including courses in agricultural and ecological sciences and experience in agriculturally-related environmental construction inspection.

### **Responsibilities**

- Monitoring all reconstruction activities involving affected agricultural lands, in coordination with the environmental inspector, the construction inspector, farm operators, Contractor, Ag & Mkts staff, and DPS Staff, in accordance with the EM&CP;
- Communicating and coordinating closely with affected farm operators; and
- Monitoring and supporting compliance with agricultural-land-related Ordering Clause/Certificate Condition and all other applicable EM&CP provisions.