

Statement of Work

Fire Protection Support Technician Staff Augmentation

Waste Isolation Pilot Plant (WIPP)

May 11, 2016

Revision 0

## **1. INTRODUCTION AND BACKGROUND**

The WIPP site experienced a fire event and a radiological release event on February 5, 2014 and February 14, 2014, respectively. As a result, numerous investigations, assessments, and reviews have been conducted, some of which are still ongoing. Many issues are being exposed that require heightened focus of fire protection to ensure the facility can more effectively respond to planned and unplanned facility events. As a result of the fire and radiological release, improvements are needed in the areas of configuration and change management for equipment, procedures, and processes, many of which will impact the fire protection systems and program.

To accomplish this task, new guidance documents must be created and existing documents will require revision. There is a critical need for continuity among senior experienced fire protection support personnel to provide guidance and oversight to the current Fire Protection support staff. The staff augmentation will strengthen the Program while the current staff maintains operations of the facility.

The period of performance will begin on or about June 15, 2016 and shall be completed on or before December 31, 2016. This scope of work is estimated to require various levels of effort and/or time dependent on required support and expertise.

## **2. SCOPE OF WORK**

The Fire Protection Program (Engineers and Support staff) have over 120 pre-start activities that must be completed prior to re-start of waste receipt. The scope of work includes: evaluation of the existing fire protection program elements and implementing procedures including fire protection systems (suppression, detection and water supply); staff qualification and training for adequacy and recommendations; evaluation of current test, inspection and maintenance practices including compliance with NFPA codes, DOE requirements and any additional regulatory requirements; development of new or revised procedures; and development of model work orders and practices to expedite repairs and enhance system operability/availability. The Scope will also include assisting in troubleshooting existing impairments, system tests and walk down/inspections, development of Fire Protection Engineer/Cognizant System Engineer training/qualification processes and evaluation and improvement of current facility and system conditions.

Work may be performed at the WIPP Site located 33 miles east of Carlsbad, New Mexico or at the subcontractor's employees' home location. The subcontractor employees (4 people) will be provided with general-use office, storage space, telephone and computers in an appropriate location, if required.

Degrees in fire science or fire protection technologies are preferred. Greater than 10 years of DOE Fire Protection experience is required. NICET Certification and/or DOE Fire protection program familiarity is a plus.

Travel and expenses include returns home. The Subcontractor's employees may spend up to three weeks at the site at a time, although work may continue from their respective home bases.

All work will be managed to stay within the estimated hours. Estimated work is 60 hours per week.

### **3. REFERENCE DOCUMENTS**

- All applicable DOE Orders and Standards
- All applicable New Mexico legal and regulatory requirements, including the WIPP Hazardous Waste Facility Permit
- All applicable NFPA codes
- All applicable NWP procedures
- DOE/WIPP 02-3122, *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant*
- DOE/WIPP 07-3372, *Waste Isolation Pilot Plant Documented Safety Analysis*
- DOE/WIPP 07-3373, *Waste Isolation Pilot Plant Technical Safety Requirements*
- WP 12.FP.01, *WIPP Fire Protection Program procedure*

### **4. TECHNICAL TASKS**

The Subcontractor will provide continuity in experienced expertise personnel who provide guidance and oversight to the current Fire Protection Engineering and support staff, troubleshoot existing impairments, system tests and walk down/inspections, develop Fire Protection Engineer/Cognizant System Engineer training/qualification processes and evaluate and improve current facility and system conditions.

### **5. QUALITY ASSURANCE REQUIREMENTS**

Work will be performed under NWP's NQA-1 program (WP 13-1).

### **6. SAFETY AND SECURITY**

For work performed on site, the following requirements apply:

Safety, health, and protection of the environment are paramount in the conduct of business at the WIPP. The supplier will follow established WIPP safety requirements during the course of work, and establish any additional rules and procedures necessary to conduct safe operations. While onsite, the supplier's employees will obey all posted signs such as speed limits, pedestrian crossings, and hard hat and safety glasses areas.

The Subcontractor is responsible for "flowing-down" pertinent safety requirements to all lower-tier subcontractors, unions, and vendors.

### **7. REPORTS, DATA, DELIVERABLES**

As assigned by the NWP Fire Protection Manager.

#### Onsite Training Requirements

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### Technical Point of Contact

William Till, 575-234-8788

## **8. JOB DESCRIPTION AND QUALIFICATIONS**

Fire Protection Support Staff Augmentation (Technicians):

General: Greater than 10 years of DOE Fire Protection experience is required.

Education requirements: Degrees in fire science or fire protection technologies are preferred. NICET Certification and/or DOE Fire protection program familiarity is a plus.

Specialty knowledge areas and abilities include:

- Fire Suppression Systems (suppression, detection and water supply)
- Evaluation of existing fire protection program elements
- Evaluation of Staff qualification and training for adequacy and recommendations
- Troubleshooting existing impairments
- System tests and walk down/inspections
- Development of Fire Protection Engineer/Cognizant System Engineer training/qualification processes
- Evaluation and improvement of current facility and system conditions
- An understanding of engineering principles, theories, and concepts and microcomputer applications
- Ability to deliver oral presentations to convey technical findings and recommendations
- Ability to write clear, concise, and organized memos and reports