

**DEPARTMENT OF HOMELAND SECURITY (DHS)
Science & Technology Directorate (S&T)**

Plum Island Animal Disease Center (PIADC) Operations

**STATEMENT OF WORK (SOW)
FOR
PIADC Undersea Power and Communications Cable Installation**

1.0 GENERAL

1.1 BACKGROUND

The Department of Homeland Security (DHS) Science and Technology (S&T) Directorate owns and operates Plum Island, NY, the Plum Island Animal Disease Center (PIADC) on Plum Island, all island infrastructure, and facilities in Orient Point, NY. Plum Island has two undersea cables in use, M1 and M2, sharing the electric load of the island equally. Cable M1 is an Okonite cable installed in 1989 (approximately 34 years old) and cable M2 is a Kerite cable installed in 1998 (approximately 25 years old). The service life of both cables is approximately 25 years. A March 2022 inspection report documented the older 1989 Okonite cable, partially exposed on each shore landing, with risk of significant damage via wave action against the rocky shorelines. The Orient Point shore landing for this cable shows "bird caging" of the external armor wires and a significant radius bend coming to shore. This will eventually compromise the reliability of this cable. The other newer Kerite cable has better protection running through a vault/manhole, however, both cables run unprotected on the seabed from Orient Point to Plum Island making them vulnerable to a number of intentional or unintentional physical hazards. The mission impact from loss of electrical power from the mainland (due to power cable failure) would be critical – laboratory operations and research depend on a reliable and uninterrupted supply of electricity. Loss of the older M1 Okonite cable will double the load on the newer M2 Kerite cable and result in more frequent outages and power dips while cycling the larger load. Loss of the newer M2 Kerite cable would also result in the loss of all communications (since this cable contains the communications fiber for the island). Loss of one or both cables is now more likely as the service life has reached its end. This represents an unacceptable risk to the entire PIADC research mission and supporting operations. The redundancy that was once built into this configuration is at end-of-life and a new power cable with communications fiber is needed. Additionally, if PIADC were to attempt to run on only island-based diesel-generated power for a significant period of time (assuming loss of the undersea cable) then this may lead to violation of our air permit (which currently limits operation to only 500 hours/year).

1.2 SCOPE

The DHS S&T Office of National Laboratories (ONL) PIADC Operations & Maintenance (O&M) Program Management Office (PMO) requires a contractor to procure and install one new undersea power and communications cable between Orient Point, Long Island, New York to Plum Island. The task includes manufacture of a new cable made to order, assembly of cable reel for transport and marine installation, preparation of shore landings and supporting sitework, shoreline and marine surveys of cable route, cable installation via cable-laying barge, installation, commissioning, and testing of power and communications functions.

1.3 OBJECTIVE

The goal of the effort defined within this SOW is to obtain, install, and place into service, one new undersea cable between Orient Point and Plum Island that will provide power and communications critical to PIADC's mission.

1.4 APPLICABLE DOCUMENTS

1.4.1 Compliance Documents

The following documents provide specifications, standards, or guidelines that must be complied with in order to meet the requirements of this contract:

1. International Electrotechnical Commission (IEC) 63026, Edition 1.0 2019, *Submarine power cables with extruded insulation and their accessories for rated voltages from 6 kV ($U_m = 7,2$ kV) up to 60 kV ($U_m = 72,5$ kV) – Test methods and requirements*
2. International Council on Large Electric Systems (CIGRE), WG B1.55 722, *Additional Test for Submarine Cables 6kV up to 60 kV*
3. International Council on Large Electric Systems (CIGRE), WG B1.65 883, *Installation of Submarine Power Cables*
4. American National Standards Institute (ANSI), ANSI C2, National Electrical Safety Code (NESC)
5. National Fire Protection Association (NFPA), NFPA 70, National Electrical Code
6. Code of Federal Regulations (CFR) 29 CFR 1910.147, Control of Hazardous Energy (Lock-Out/Tag Out)
7. National Electrical Manufacturers Association (NEMA), NEMA ICS 6, Enclosures for Industrial Control and Systems

1.4.2 Reference Documents

The following documents may be helpful to the contractor in performing the work described in this document:

1. As-built cable drawings for existing PIADC undersea power and communication cables
2. As-built PIADC power distribution, one-lines, and schematics (power and communications)
3. PIADC Lockout/Tagout Procedures

1.5 Data Management

The contractor will have access to Personally Identifiable Information (PII) in the form of business contact information of DHS employees and contractors and other controlled unclassified information (CUI) in the form of engineering drawings and as built, for the purpose of this contract. Only the contractor and their subcontractor responsible for executing this task order will access this CUI and all CUI will be accessed within the PIADC Information Technology (IT) Network (Scitech). The Contractor will have recurring access to government facilities with an escort. The Contractor shall only use Government Furnished Equipment (GFE) for all Government data and/or information and this must be maintained on GFE. No Government data and/or information is to go into the contractor information system. The contractor will retain the CUI for PIADC on the appropriate IT Network (Scitech). The contractor will delete any PII after the project ends. The Government has determined that contractor employee access to CUI or government facilities needs to be limited to U.S. citizens only per 3052.204–71 Alt I. If an exception is required, the Contractor will follow the guidance provided in DHS Policy 4300. The contractor does have

access to the PIADC IT Networks (Scitech). A foreign end product may be used under this contract. The Contractor will assist with Privacy Compliance documentation.

2.0 SPECIFIC REQUIREMENTS / TASKS

The scope of work shall include all tasks and activities, as required, to manage, permit, design, manufacture, assemble, survey, transport, install, test, commission, and place into service an undersea power and communications cable between Orient Point and Plum Island. Tasks include¹:

1. Manufacture of undersea cable (approximately 11,000 feet)
2. Assembly of cable reel, suitable for transport from manufacturer and barge operations
3. Preparation of shore landings, and vault/enclosure preparation
4. Performance of marine route pre-lay survey and onshore survey
5. Transport and loading of cable on Cable-Laying Barge (CLB) at site
6. Cable laying between terminus points, routing through trench, and backfilling at landings
7. Termination of power cable and communications media
8. Inspection, testing, commissioning, and placing into service power and communications
9. Acquisition, management, and closeout of all permits
10. Oversight and management of any sub-contractors
11. Preparation and delivery of all project documentation (specifications, drawings, updated/new procedures, etc.)

Minimum technical specifications for the cable are included in Section 2.1 *Technical Information, Performance Parameters and Constraints* of this SOW.

DHS requests the contractor to perform appropriate market research and issue a Request for Proposal (RFP) to potential manufacturers and marine installation vendors for the design, manufacture, transport, and installation of the undersea cable and work necessary to satisfy this SOW.

This work will be a Firm Fixed Price type contract. DHS requests a proposal to be completed and submitted within thirty (30) days after receipt of the RFP and this SOW.

2.1 TECHNICAL INFORMATION, PERFORMANCE PARAMETERS AND CONSTRAINTS

2.1.1 Logistics

Part of the challenge associated with this contract is the requirement to work on an island subject to ferry schedules and other logistical considerations such as freight limits and security requirements. Those requirements further include:

- Access to the island will only be granted upon completion of required security documentation and the subsequent background checks. Contractor personnel not approved in this process may not be able to access the island.
- Travel from the mainland to the island is provided by regularly-scheduled ferries.
- While passenger travel is available from both Orient Point, New York and Old Saybrook, Connecticut, any required vehicles, trucks and equipment are only available to be transported via the Orient Point, New York Terminal.
- The contractor should prepare for any special logistical needs for this work.

2.1.2 Minimum Requirements for the Undersea Cable

¹ It is expected the selected prime-contractor may sub-contract some of these activities (e.g., cable fabrication, marine surveys, barge operation, etc.) to suitable manufacturers and marine installers.

The contractor shall prepare all specifications, design products, calculations, drawings, and other documents as needed to supply all material, tools, equipment, as well as all labor and operations necessary for the manufacture, supply, and installation of an undersea cable. While, under normal operating conditions, island load will be shared between the existing M2 cable and the new power cable, the cable supplied under this scope of work shall be capable of carrying full island load in the event of a loss of M2.

In addition to the general specifications defined in this SOW, the following cable criteria are required:

POWER CABLE

- 3-conductor (3C) submarine cable
- 2/0 AWG compressed round filled copper ASTM B8-99 temper 19X (strand)
- Minimum 15kV (Single Permashield) SPS 133% TX insulation thickness
- 0.012 Permashield conductor shield material
- 0.220 discharge-resistant ethylene propylene rubber (DR-EPR) insulation
- 0.024 extruded thermoset semicon layer insulation shield
- 5 mil copper tape - helical shield bare copper (BC) shield material
- 0.050 linear low density polyethylene jacket, surface print
- Three #4 AWG uninsulated neutrals (based on inclusion in the 1996 cable - STV SPEC)
- Double layer #4 BWG galvanized steel armor wires, each jacketed with 45 mils High Density Polyethylene (HDPE).
- 3.899 target out-side diameter SOS.

The Kerite specifications or equivalent are acceptable. DHS has no objection to other cable standards provided there is no compromise to safety and capability.

COMMUNICATIONS MEDIA

- Single tube 48 fiber member
- Connection type [Government pre-approval required]

2.1.4 Special Considerations

Note: Performing work at PIADC requires integrated logistics with the operations on the island and involves specialized procedures. Additional documents will be provided upon award.

Additional considerations include:

- Ability to work with DHS Subject Matter Experts (SMEs) and other contractors to meet the requirements of the SOW.
- Special consideration may be given to the contractor/sub-contractor(s) that can provide an accelerated schedule to complete all necessary work.

2.2 SUB-TASK DEFINITION

2.2.1 Sub-Task 1: Program Planning and Project Management

- Attend a Preconstruction Conference to review scope and technical requirements, deliverables, submittals, schedule, and team communications.
- Develop and maintain a project schedule throughout all phases.

- Bi-weekly progress meetings with PIADC, their SMEs, and Contracting Officer's Representatives (COR) to discuss progress, schedule, cost, and risk. Bi-weekly progress meetings shall be put on hold after all permit applications are submitted until 2-months before construction commences. During this period, status should be briefed during the bi-weekly O&M meeting to DHS from AFFS and on a monthly basis (if needed). If new business arises during this period meetings will be scheduled as needed.
- Contractor to provide minutes of all meetings (e.g., Preconstruction Conference, bi-weekly progress meetings, etc.).
- Contractor to provide monthly progress reports with project status and schedule updates. During mobilization/construction the contractor shall increase reporting frequency to weekly. The frequency (monthly/weekly) is dependent on on-going activities (refer to Section 4.10 for additional detail).
- Oversight and management of any sub-contractors

2.2.2 Sub-Task 2: Prime-Contractor Best Value Evaluation

- Prime-contractor to perform best value evaluation of sub-contractors (cable manufacturer, CLB / marine operator, cable installer, etc.) for any work not self-performed by the prime-contractor.
- Provide all best value evaluation inputs and results for DHS' review with Consent to Subcontract by the Government to be issued to Contracting Officer (CO) and COR.
- Best value and consent to subcontract apply to subcontractors \$250K and above.
- If the final best value evaluation/s costs vary significantly from AFFS' proposal basis of estimate, then the task order price could be subject to adjustment.

2.2.3 Sub-Task 3: Manufacture of Undersea Cable

- For quotation purposes, the cable length is estimated at 11,000 feet.
- Factory made splices, to achieve a continuous length (11,000 feet), are permitted if performed prior to application of outer jacket and armor wires.
- Any factory splices shall not reduce conductor ampacity or fault current capacity and shall be of uniform fit and finish throughout the length of the cable to allow ease of reel handling.
- No field splices along the continuous length of cable shall be permitted.
- If cable is damaged during installation, the contractor shall immediately notify the PM/CO/COR for further guidance.
- Factory acceptance testing, per applicable industry standards, is required. A Factory Acceptance Test Plan is to be submitted to DHS for review and approval.
- The Buy American Act applies to the purchase of the undersea cable unless an exception applies. The cable meets the definition of construction material at Federal Acquisition Regulation FAR 25.003 and does not appear that any of the exceptions listed at FAR 25.202 apply, given the information available at this time. Additionally, due to estimated value of the pending task order, none of the minimum thresholds (\$7,032,000 - \$12,001,460) of any Trade Agreement identified in Table 1 under FAR 25.402(b) apply, either.

2.2.4 Sub-Task 4: Preparation of Shore Landings, trench, Vault/Enclosure Preparation

- Trenching shall be installed at each landing site (both Orient Point and Plum Island) to minimize/eliminate unprotected cable shore landings.

- Trenching shall be prepared from the shoreline to the agreed upon terminus (shore landing vault/enclosure).
- Approximately 200' (100' at each site Orient and Plum Island) of Cast Iron Cable Protectors (CICP) to be installed at shorelines.
- The contractor shall be responsible for marine crew and shore landing electrical work oversight.
- An Environmental Assessment (EA) is being prepared for this effort as a task outside the scope of this SOW. The completed and approved EA is required prior to initiating any construction or site work. The contractor for this SOW shall consider any requirements, including scheduling of work, covered by the EA. Post-award DHS will work with the contractor to assure alignment of scheduling procurement, manufacturing, and construction/site-work activities. The EA preparation was awarded under a separate contract and has a 90-day period of performance. As of the issuance of this SOW, the EA has not been completed. DHS shall provide a draft copy of the EA to the contractor as soon as it's available. Routing will be similar to the 'oldest' (i.e. M1 Okonite) cable.

2.2.5 Sub-Task 5: Performance of Pre-Lay Survey, Onshore Survey, and As-Built

- Prior to cable installation, perform a hydrographic survey to map the bottom contours and locate the existing power cables and other obstructions that may interfere or challenge the installation.
- Survey on the shorelines at each landing (Orient Point and Plum Island) to establish control.
- An *Installation Plan* shall be prepared and submitted to the Government for review and approval.
- As-built configuration documentation/drawings are required showing actual installed cable location. Global Positioning System (GPS) positioning shall be used to track the CLB route during cable-laying. GPS position data shall be integrated with pre-lay survey documents to produce as-built drawings that identify changes in laying configuration and significant surface features.

2.2.6 Sub-Task 6: Material Transport, Barge Mobilization, Cable-Laying, Terminations

- The contractor shall coordinate delivery of the cable, accessories, and equipment from the manufacturer to the CLB for transport to Orient Point/Plum Island.
- CLB, tugboat(s), and supporting craft shall be available to support all necessary marine operations.
- The cable and associated equipment shall be installed, spliced, terminated, maintained, and operated in accordance with manufacturer's requirements, recommended standards, and procedures, with the exception that no field splices along the continuous length of cable shall be permitted in accordance with Section 2.2.3.
- The contractor shall provide advance notice to, and coordination with, all stakeholders (e.g., PIADC staff, utility providers, contractors, etc.) of any outages or potential service interruptions that may result from performing work related to this SOW.
- Inspection and initial testing (DC hi-pot test) shall be conducted prior to terminations being made.
- Terminations shall be 15kV heat-shrink type for power cable.
- Terminations for fiber optic communications media to be approved by Government. (Applicable only if Sub-Task 6 Optional redundant configuration is exercised)
- Contractor base proposal to plan for new fiber optic to remain as installed spares.

- Contractor's proposal to include option for labor/equipment/material to allow new fiber optic media to interface with PIADC communications in redundant configuration.
- Appropriate protection of fiber media and connectors throughout its entire length, including at shore landings, within cable vaults, panels, etc. are to be installed regardless if media is spared-out or put into service at time installation.

2.2.7 Sub-Task 7: Inspection, Testing, Commissioning, Acceptance

- Inspections and testing to verify the equipment and installation is compliant with applicable standards, codes, regulations, and any manufacturers requirements shall be performed as part of commissioning and for acceptance testing.
- A *System Commissioning / Test Plan* and *Test Procedures* shall be prepared and submitted to the Government for review and approval. The *System Commissioning / Test Plan and Procedures* shall include any testing necessary to demonstrate power and communications cable functionality and compliance with any manufacturer's requirements. The plan and procedure shall include the following as a minimum:
 - A VLF AC withstand test in accordance with IEEE std 400.2 to be performed on installed cable.
- A final *System Commissioning / Test Report* shall be issued.
- An *Acceptance Test Plan* and *Acceptance Test Procedures* shall be prepared and submitted to the Government for review and approval.
 - Acceptance testing shall include demonstration of:
 - Once installed the cable will be tested for proper electrical load carrying functionality. The contractor shall define how this will be demonstrated in the Government approved test plan. It should at least be a test of 'nominal' capability.
 - Fiber communications functionality consists of a simple light test for strand integrity after installation.
- A final *Acceptance Test Report* shall be issued.
- Verify any arc flash studies for associated equipment are not invalidated from modifications made under this scope of work.

2.2.8 Sub-Task 8: Permitting and Notice to Mariners

- Interfacing with permitting authorities, application, acquisition, management, and closeout of all permits necessary to perform all aspects of the work shall be the responsibility of the contractor.
- The permitting activity will require a thorough review of the EA to assure all permit applications, determinations and public statements (if any) are fully addressed. The 1995 EA should provide good initial guidance for the permits. DHS has provided the "old" EA.
- The following authorities and/or permits are anticipated as applicable (to be verified by contractor):

PERMITS

- Federal
 - Individual Permit – U.S. Army Corps of Engineers
 - Section 10 of the Rivers and Harbor Act
 - Section 404 of the Clean Water Act
 - Coastal Consistency Certification
 - Safety Zone Determination – U.S. Coast Guard
- State

- New York State Department of Environmental Conservation (NYSDEC)
 - Environmental Conservation Law
 - Protection of Waters Permit
 - 401 Water Quality Certification
 - Article 36 – Flood Plain Management
 - Article 34 – Coastal Erosion
 - Coastal Consistency Certification
 - Article 24 – Freshwater Wetlands
 - Article 24 – Tidal Wetlands
- County/Local
 - Southhold Township
 - Coastal Erosion and Wetland / Trustee Lands Permit
 - Erosion and Sediment Control Plan Approval

AUTHORITY NOTIFICATION

- U.S. Coast Guard and State Police notification made as required
- Restriction of maritime area access during work periods (e.g., surveying, installation, etc.) for recreational boating, fishing, diving, etc.
- Suffolk County Parks (e.g., no fishing, recreational use restrictions)

2.2.9 Sub-Task 9: Documentation

- Preparation and delivery of all project documentation, including specifications, drawings, plans, procedures, reports, etc. (refer to Section 9.0.2 of this SOW for a complete listing).

2.3 WARRANTY

2.3.1 Manufacturers Material Warranty

The undersea cable shall include a manufacturer's warranty for 5-years from shipment A 2-year installation warranty shall also be provided.

2.3.2 Workmanship and Installation Warranty

A 2-year warranty covering workmanship and installation of the undersea cable and installed accessories shall be included and will begin on owner acceptance.

2.4 NON-CONFORMANCES

2.4.1 Notification

The contractor shall notify in writing (including email) to the COR, CO, and Government's Project Manager of any non-conformance related to, or potentially affecting, activities or delivery of this task. Notification shall be made once the non-conformance is known or identified. The contractor shall inform the Government of non-conformance condition, impacts to task activities/deliverables and PIADC operations, corrective actions, and measures to prevent reoccurrence.

3.0 CONTRACTOR PERSONNEL

3.1 Qualified Personnel

The Contractor shall provide qualified personnel to perform all requirements specified in this SOW. This includes all training, licenses, proficiencies, and skillsets to accomplish this task order.

3.2 Continuity of Support

The Contractor shall ensure that the contractually required level of support for this requirement is maintained at all times. The Contractor shall ensure that all contract support personnel are present on workdays 8:00 AM to 4:30 PM, unless there is prior notification to the CO and COR. If Contractor staffing levels are not maintained due to vacation, leave, appointments, etc., and replacement personnel will not be provided, the Contractor shall provide e-mail notification to the COR prior to employee absence. Otherwise, the Contractor shall provide a fully qualified replacement.

3.3 Key Personnel

Before replacing any individual designated as *Key* by the Government, the Contractor shall notify the CO no less than 21 calendar days in advance, submit written justification for replacement, and provide the name and qualifications of any proposed substitute(s). All proposed substitutes shall possess qualifications equal to or superior to those of the *Key* person being replaced, unless otherwise approved by the CO. The Contractor shall not replace *Key* Contractor personnel without written approval from the CO. The following Contractor personnel are designated as *Key* for this requirement. Note: The Government may designate additional Contractor personnel as *Key* at the time of award.

Key Personnel for this SOW are:

- Project Manager

3.4 Project Manager

The Contractor shall provide a Project Manager (reference Construction FAR clause 52.236-6) who shall be responsible for all Contractor work performed under this SOW. The Project Manager shall be a single point of contact (POC) for the CO and the COR. It is anticipated that the Project Manager shall be one of the senior level employees provided by the Contractor for this work effort. The name of the Project Manager, and the name(s) of any alternate(s) who shall act for the Contractor in the absence of the Project Manager, shall be provided to the Government as part of the Contractor's proposal. The Project Manager is further designated as *Key* by the Government. During any absence of the Project Manager, only one alternate shall have full authority to act for the Contractor on all matters relating to work performed under this contract. The Project Manager and all designated alternates shall be able to read, write, speak and understand English.

3.4.1 The Project Manager shall be available to the COR via telephone between the hours of 8:00 a.m. and 5:00 p.m. EST, Monday through Friday, and shall respond to a request for discussion or resolution of technical problems within twenty-four (24) hours of notification.

3.5 Employee Identification

3.5.1 Contractor employees visiting Government facilities shall wear an identification badge that, at a minimum, displays the Contractor name, the employee's photo, name, clearance-level and badge expiration date. Visiting Contractor employees shall comply with all Government escort rules and requirements. All Contractor employees shall identify themselves as Contractors when their status is not readily apparent and display all identification and visitor badges in plain view above the waist at all times.

3.5.2 Contractor employees working on-site at Government facilities shall wear a Government issued identification badge. All Contractor employees shall identify themselves as Contractors when their status is not readily apparent (in meetings, when answering Government telephones, in e-mail messages, etc.) and display the Government issued badge in plain view above the waist at all times.

3.6 Employee Conduct

Contractor's employees shall comply with all applicable Government regulations, policies and procedures (e.g., fire, safety, sanitation, environmental protection, security, "off limits" areas, wearing of parts of DHS uniforms, and possession of weapons) when visiting or working at Government facilities. The Contractor shall ensure Contractor employees present a professional appearance at all times and that their conduct shall not reflect discredit on the United States or the DHS. The Project Manager shall ensure Contractor employees understand and abide by DHS established rules, regulations and policies concerning safety and security.

3.7 Removing Employees for Misconduct or Security Reasons

The Government may, at its sole discretion (via the CO or COR), direct the Contractor to remove any Contractor employee from DHS facilities for misconduct or security reasons. Removal does not relieve the Contractor of the responsibility to continue providing the services required under the contract. The CO will provide the Contractor with a written explanation to support any request to remove an employee.

4.0 OTHER APPLICABLE CONDITIONS

4.1 TECHNICAL DIRECTION

Performance of work under this contract shall be subject to the technical direction of the COR. The term "Technical Direction" is defined to include, without limitation, the following: (a) Directions to the contractor which redirect the contract effort, shift work emphasis between work areas of tasks, require pursuit of certain lines of inquiry, fill in details or otherwise serve to accomplish contractual statement of work. (b) Provision of information to the contractor that assists in the interpretation of drawings, specifications or technical portions of the work description. (c) Review and, where required by the contract, approval of technical reports, drawings, specifications and technical information to be delivered by the contractor to the Government under the contract. Technical direction must be within the general scope of work stated in the contract. The COR does not have authority to, and may not, issue any technical direction which (i) constitutes an assignment of additional work outside the general scope of the contract; (ii) constitutes a change as defined in the contract clause entitled "Changes" (FAR 52.243-1); (iii) in any manner cause an increase or decrease in the total contract cost or price, the fixed fee or the time required for contract performance; or (iv) changes any of the expressed terms, conditions, or specifications of the contract. All technical direction shall be issued in writing by the COR or shall be confirmed in writing within five (5) working days after issuance. The contractor shall proceed promptly with the performance of technical directions duly issued by the COR in the manner prescribed by this article. If, in the opinion of the contractor, any instruction or direction issued by the COR is within one of the categories and defined in (i) through (iv) above, the contractor shall not proceed but shall notify the CO in writing within five (5) working days after the receipt of any instruction or direction and shall request the CO to modify the contract accordingly. Upon receiving such notification from the contractor, the CO shall issue an appropriate contract modification or advise the contractor in writing that, in his/her opinion, the technical direction is within the scope of the contract. The contractor shall thereupon proceed immediately with the direction given. A failure of the parties to agree upon the nature of the instruction or direction or upon the contract action to be taken with respect thereto shall be subject to the provisions of the contract clause titled, "Disputes" (FAR 52.233-1.).

4.2 PUBLIC HEALTH SECURITY AND BIOTERRORISM PREPAREDNESS RESPONSE ACT REQUIREMENTS

All contractor personnel working under the task order shall be subject to certain sections of the Public Health Security and Bioterrorism Preparedness Response Act of 2002. Specifically, as part of the suitability check process each contractor employee must complete a Federal Bureau of Investigation background check information form Office of Management and Budget (OMB) No. 1110-0039).

4.3 ENVIRONMENT, SAFETY AND HEALTH, AND ENERGY

If the contractor works with hazardous materials the contractor must comply with all applicable regulations as referenced in the sources listed below. General Services Administration (GSA) defines hazardous materials as:

"Hazardous Material is commonly referred to as HAZMAT or Dangerous Goods by industry and the U.S. Government. Occupational Safety & Health Administration (OSHA) in 29 CFR 1910.1200, and GSA in FED-STD-313 define Hazardous Material as:

Any item or chemical which is a "health hazard" or "physical hazard", including the following:

- Chemicals that are carcinogens, toxic or highly toxic agents, reproductive toxins, irritants, corrosives, hepatotoxins, nephrotoxins, neurotoxins, agents that act on the hematopoietic system, and agents that damage the lungs, skin, eyes, or mucous membranes;
- Chemicals that are combustible liquids, compressed gases, explosives, flammable liquids, flammable solids, organic peroxides, oxidizers, pyrophorics, unstable (reactive) or water-reactive; and
- Chemicals that, in the course of normal handling, use or storage, may produce or release dusts, gases, fumes, vapors, mists or smoke having any of the above characteristics.

Any item or chemical which, when being transported or moved, is a risk to public safety or is an environmental hazard, and is regulated as such by one or more of the following:

- DOT-Department of Transportation; Hazardous Materials Regulations (49 CFR 100-180);
- EPA- Environmental Protection Agency (40 CFR);
- IMO-International Maritime Organization; International Maritime Dangerous Goods (IMDG) Code;
- IATA-International Air Transport Association; Dangerous Goods Regulations;
- ICAO-International Civil Aviation Organization; Technical Instructions; and
- AF-Air Force "INTERSERVICE" Manual, Preparing Hazmat for Military Air Shipments (AFMAN 24-204).

HAZMAT also includes any item or chemical which is reportable or potentially reportable or noticeable as inventory under the reporting requirements of the Hazardous Chemical Reporting (40 CFR Part 302), or as an environmental release under the reporting requirements of the Toxic Chemical Release Reporting: Community Right To Know (40 CFR Part 372).

These include chemicals with special characteristics which, in the opinion of the manufacturer, can cause harm to people, plants, or animals when released by spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing of in the environment (including the abandonment or discarding of barrels, containers, and other receptacles).

Also, HAZMAT includes an item or chemical if it is a special nuclear source or by-product material as defined in 10 CFR, or is regulated or referred to as radioactive."

Depending on the type of hazardous material, the following FAR clauses will apply:

- 52.223-1 Biobased Product Certification.
- 52.223-2 Affirmative Procurement of Biobased Products Under Service and Construction Contracts.
- 52.223-3 Hazardous Material Identification and Material Safety Data.
- 52.223-4 Recovered Material Certification.
- 52.223-5 Pollution Prevention and Right-to-Know Information.
- 52.223-6 Drug-Free Workplace.
- 52.223-7 Notice of Radioactive Materials.
- 52.223-9 Estimate of Percentage of Recovered Material Content for EPA-Designated Items.
- 52.223-10 Waste Reduction Program.
- 52.223-11 Ozone-Depleting Substances and High Global Warming Potential Hydrofluorocarbons.
- 52.223-12 Maintenance, Service, Repair, or Disposal of Refrigeration Equipment and Air Conditioners.
- 52.223-13 Acquisition of EPEAT®-Registered Imaging Equipment.

- 52.223-14 Acquisition of EPEAT®-Registered Televisions.
- 52.223-15 Energy Efficiency in Energy-Consuming Products.
- 52.223-16 Acquisition of EPEAT®-Registered Personal Computer Products.
- 52.223-17 Affirmative Procurement of EPA-designated Items in Service and Construction Contracts.
- 52.223-18 Encouraging Contractor Policies to Ban Text Messaging While Driving.
- 52.223-19 Compliance with Environmental Management Systems.
- 52.223-20 Aerosols.
- 52.223-21 Foams.
- 52.223-22 Public Disclosure of Greenhouse Gas Emissions and Reduction Goals-Representation.

Federal Standard: Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities (FED-STD-313, latest version).

4.4 PERIOD OF PERFORMANCE

The period of performance for this contract is **twenty four (24) months** from the date of award.

Preferred Schedule milestones for this effort are estimated as follows:

MILESTONES and KEY DATES				
Milestone	Activity	Start	Finish	Cumulative
<u>1</u>	Award of Contract – Prime	T0		T0
2	Preconstruction Conference	T0 + 10 days		T0 + 10 days
3	Best Value Evaluation	M-2 (end)	+1 week	T0 + 2 weeks
<u>4</u>	Award Manufacturing / Marine Support Contract	M-3 (end)		T0 + 2 weeks
5	Complete/submit Permit Applications and Issue Notice to Mariners	M-2 (end)	+ 12 weeks	T0 + 13 weeks
6	Manufacture Cable	M-4 (end)	+36 weeks	T0 + 38 weeks
<u>7</u>	Conduct Pre-Lay Survey and Onshore Survey	M-4 (end) + 4 weeks	+1 week	T0 + 7 weeks
8	Approval of EA	May 1, 2023	+6 months	(independent)
9	Preparation of shore landings, site work,vault/enclosure preparation	M-4 (end) + 20 weeks	+4 weeks (complete 6 weeks before cable mfg complete)	T0 + 26 weeks
10	CLB, Tug(s), Support Vessel(s) mobilized at install location	M-6 (end)	+2 weeks	T0 + 34 weeks
<u>11</u>	Delivery of Cable & Reel to Orient Point / PIADC	M-6 (end)	+2 weeks	T0 + 34 weeks
12	Installation of Cable	M-11 (end)	+1 week	T0 + 56 weeks

13	Initial Inspection, Initial Test, and Terminations	M-12 (end)	+3 days	T0 + 35.5 weeks
<u>14</u>	Commissioning and Acceptance Testing	M-13 (end)	+2 days	T0 + 36 weeks
15	Prepare / Issue Final Documentation	M-14 (end)	+2 weeks	T0 + 38 weeks
<u>16</u>	Closeout Permits	M-14 (end)	+8 weeks	T0 + 46 weeks

Revised schedule milestones shall be mutually agreed to as part of the contractors overall project plan submission after award. DHS is currently estimating approximately 12-month permit review and approval cycle. DHS will actively engage regulators for review. The Period of Performance (PoP) of this project may be extended based upon on-going assessment of the process.

4.5 PLACE OF PERFORMANCE

The primary place of performance will be the Department of Homeland Security's facility at:
 US Department of Homeland Security
 Plum Island Animal Disease Center (PIADC)
 Orient Point, New York

4.6 HOURS OF OPERATION

Contractor employees shall generally perform all work between the core hours of 8:00 a.m. and 4:30 p.m. EST, Monday through Friday (except Federal holidays). However, there may be occasions when Contractor employees shall be required to work other than normal business hours, including weekends and holidays, to fulfill requirements under this SOW.

PIADC ferries run seven (7) days/week (schedule furnished upon request).

4.7 TRAVEL

Contractor travel may be required to support this requirement. All travel required by the Government outside the local commuting area(s) will be reimbursed to the Contractor in accordance with the Federal Travel Regulations. The Contractor shall be responsible for obtaining COR approval (electronic mail is acceptable) for all reimbursable travel in advance of each travel event.

4.8 PRECONSTRUCTION CONFERENCE

The Contractor shall attend a Preconstruction Conference (post contract award) with the CO and the COR no later than 12 calendar days after the date of award, unless the CO approves an extension. The purpose of the Preconstruction Conference, which will be chaired by the CO, is to discuss technical and contracting objectives of this contract and review the Contractor's draft project plan. The Preconstruction Conference will be held at the Government's facility, located at PIADC or via teleconference.

Performance and payment bonds will be required per FAR 52.228-15 and be provided to the CO within ten (10) calendar days of the Government issuance of the award. The preconstruction

conference will not be scheduled or conducted until the Performance and Payment bonds have been submitted to the CO, and the CO has reviewed and approved the bonds.

Refer to Section 2.1 *Task One* of this SOW for additional expectations of the Preconstruction Conference.

4.9 PROJECT PLAN

The Contractor shall provide a draft Project Plan at the Preconstruction Conference for Government review and comment. The Contractor shall provide a revised Project Plan to the COR not later than twenty (20) business days after the Preconstruction Conference. The Project Plan shall be reviewed and approved by the COR. At a minimum, the final Project Plan shall include and address:

- Project Overview & Background
- Project Justification
- Project Scope
- Proposed personnel including main Point of Contact, Project Manager, and Key Personnel
- Work Breakdown Structure including Schedule and Milestones
- Project Assumptions
- Project Constraints
- Project Risk matrix
- Project Communications and Reporting
- Change Control

4.10 BUSINESS CONTINUITY PLAN

The Contractor shall comply with the H.10 Continuity of Essential Contractor Services special clause under the base Indefinite Delivery Indefinite Quantity (IDIQ). The Business Continuity Plan may be the same or similar to the format and content of AFFS' Mission Essential Contractor Services Plan. This Business Continuity Plan shall include a list of primary and alternate Contractor points of contact, each with primary and alternate, including their:

- Telephone numbers, and
- E-mail addresses.

4.11 REPORTS

4.11.1 PROGRESS REPORTS

The Project Manager shall provide a progress report to the CO and COR via electronic mail. This report shall include a summary of all Contractor work performed, including a breakdown of labor hours by labor category, all direct costs by line item, an assessment of technical progress (with photographs), schedule, schedule status, any travel conducted and any Contractor

concerns or recommendations for the previous reporting period. The format and content of the progress report shall be reviewed and approved by the Government.

Progress reports shall be issued:

- Monthly: During task initiation, procurement/acquisition, manufacturing and closeout.
- Weekly: During construction, installation, and commissioning/testing activities.

Note: This is subject to change by the CO/COR based on schedule, performance, and other unforeseen circumstances.

4.11.2 CONSTRUCTION IN PROGRESS (CIP) REPORT

The Project Manager shall provide a construction in progress (CIP) report to include contract performance and financial status information. The CIP report shall be issued quarterly. The format and content of the CIP report shall be reviewed and approved by the Government.

It is understood that during the period from final permit application submittal to 2-months before construction mobilization/s there will be minimal new information to report, therefore many/most reports will simply state "no progress or change since the last report submitted on XX/XX/XXXX"

4.11.3 GENERAL REPORT REQUIREMENTS

The Contractor shall provide all written reports in electronic format with read/write capability using applications that are compatible with DHS workstations (Microsoft Office Applications).

4.12 PROGRESS MEETINGS

The Project Manager shall be responsible for keeping the COR informed about Contractor progress throughout the performance period of this contract and ensure Contractor activities are aligned with DHS objectives. At a minimum, the Project Manager shall review the status and results of Contractor performance with the COR on a bi-weekly basis. The bi-weekly progress meetings may be conducted by telephone, video-conference, or other similar methods (as determined by the COR). The contractor shall provide minutes of each bi-weekly progress meeting.

Bi-weekly progress meetings shall be put on hold after all permit applications are submitted until 2-months before construction commences. If new business arises during this hold period meetings will be scheduled as needed.

4.13 INTELLECTUAL PROPERTY

Not applicable under this scope of work.

4.14 PROTECTION OF INFORMATION

Contractor access to information protected under the Privacy Act is required under this SOW. Contractor employees shall safeguard this information against unauthorized disclosure or dissemination in accordance with the law and Government policy and regulation.

Contractor access to proprietary information is required under this SOW. Contractor employees shall safeguard this information against unauthorized disclosure or dissemination in accordance with DHS Management Directives MD 11042.1, Safeguarding Sensitive But Unclassified (SBU) (Controlled Unclassified Information (CUI)) Information. The Contractor shall ensure that all

Contractor personnel having access to business or procurement sensitive information sign a non-disclosure agreement (NDA) (DHS Form 11000-6). Any CUI handled, stored or in any way used in the performance of this task order will be safeguarded in the manner applicable to SBU and FOUO information described in DHS Form 11000-6.

4.15 SECTION 508 COMPLIANCE

Pursuant to Section 508 of the Rehabilitation Act of 1973 (29 U.S.C. 794d) as amended by P.L. 105-220 under Title IV (Rehabilitation Act Amendments of 1998) all Electronic and Information Technology (EIT) developed, procured, maintained and/or used under this contract shall be in compliance with the "Electronic and Information Technology Accessibility Standards" set forth by the Architectural and Transportation Barriers Compliance Board (also referred to as the "Access Board") in 36 CFR Part 1194. The complete text of Section 508 Standards can be accessed at <http://www.access-board.gov/> or at <http://www.section508.gov>.

5.0 GOVERNMENT TERMS & DEFINITIONS

Term / Acronym	Definition / Meaning
AF	Air Force
AFMAN	Air Force Manual
ANSI	American National Standards Institute
APO	Accountable Property Officer
BC	Bare Copper
BCP	Federal Business Continuity Plan
CAP	Contractor-Acquired Property
CFR	Code of Federal Regulations
CICP	Cast Iron Cable Protectors
CIGRE	International Council on Large Electric Systems
CIP	Construction In Progress
CLB	Cable-Laying Barge
CO	Contracting Officer
COR	Contracting Officer's Representative
CS	Contracting Specialist
CUI	Controlled Unclassified Information
DHS	Department of Homeland Security
DOT	Department of Transportation
DR-EPR	Discharge-Resistant Ethylene Propylene Rubber
EA	Environmental Assessment
EIT	Electronic and Information Technology
EPA	Environmental Protection Agency
FAR	Federal Acquisition Regulations
GFE	Government Furnished Equipment
GFP	Government Furnished Property
GPS	Global Positioning System
GSA	General Services Administration

HAZMAT	Hazardous Material
HDPE	High Density Polyethylene
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IEC	International Electrotechnical Commission
IDIQ	Indefinite Delivery Indefinite Quantity
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
IT	Information Technology
LDD	Lost, Stolen, Damaged or Destroyed
MD	Management Directives
NDA	Non-Disclosure Agreement
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
NYSDEC	New York Department of Environmental Conservation
O&M	Operations & Maintenance
OMB	Office of Management and Budget
ONL	Office of National Laboratories
OSHA	Occupational Safety & Health Administration
PIADC	Plum Island Animal Disease Center
PII	Personally Identifiable Information
PM	Program Manager
PMO	Program Management Office
POC	Point of Contact
PoP	Period of Performance
PPMO	Personal Property Management Office
RFP	Request for Proposal
SBU	Sensitive But Unclassified
SME	Subject Matter Expert
SOW	Statement of Work
S&T	Science and Technology Directorate
USDA	U.S. Department of Agriculture

6.0 PROPERTY

6.1 PROPERTY DEFINITIONS

6.1.1 Accountable Personal Property. An asset that meets one or more of the following criteria:

- a. Has an expected useful life of two years or longer and an asset value of \$5,000 or more;
- b. Classified as sensitive;
- c. Property for which accountability or property control records are maintained; or
- d. Otherwise warrants tracking in the property system of record.

Current accountable personal property information may be obtained through the PIADC Accountable Property Officer (APO).

6.1.2 Capitalized Personal Property: Non-expendable personal property with an acquisition cost over an established threshold and a normal life expectancy of two years or more. Capitalization Threshold information may be obtained through the Personal Property Management Office (PPMO) at ST_Personal_Property@Hq.dhs.gov or through the applicable Office APO.

6.1.3 Consumable Assets: An item of supply which is consumed in use (e.g., paint, rations, water, office supplies, cleaning and preserving materials, and fuel) or which loses its separate identity when merged into another entity (e.g., nuts and bolts, repair parts, spares, construction materials, components and assemblies, etc.). Consumables are considered to be expendable when issued and do not require formal accountability after they have been issued.

6.1.4 Contract Property: All property, both real and personal, that is used in the performance of a contract and includes facilities, material, special tooling, special test equipment, and agency-peculiar property. Contract property refers to both Contractor-Acquired Property (CAP) and Government Furnished Property (GFP), in the possession of contractors.

a. CAP: Property acquired, fabricated, or otherwise provided by the contractor for performing a contract and to which the Government has title.

b. GFP: Property in the possession of, or directly acquired by, the Government and subsequently furnished to the contractor for performance of a contract. Government-furnished property includes, but is not limited to, spares and property furnished for repair, maintenance, overhaul, or modification. Government-furnished property also includes contractor-acquired property if the contractor-acquired property is a deliverable under a cost contract when accepted by the Government for continued use under the contract. NOTE: GFP may also be referred to as GFE, the two terms are interchangeable.

6.1.5 Leased Property: Property that is not owned by DHS, but that is leased by the Government under terms as stipulated in the lease agreement (this excludes the leasing of property by contractors in the performance of a contract).

6.1.6 Sensitive Asset: All items, regardless of value, that require special control and accountability due to unusual rates of loss, theft, or misuse; national security or export control considerations. Sensitive assets must be formally accounted for in an accountable system of record, and include, but are not limited to, asset categories such as:

- a. Dangerous and hazardous assets including weapons, ammunition, and explosives;
- b. Law enforcement equipment including credentials, body armor, detection equipment;
- c. Assets authorized for storing and/or processing classified information;
- d. Assets with retainable memory including digital cameras, communications equipment, it equipment; and
- e. Inherently portable assets, and assets that can easily be converted to private use or that have a high potential for theft as determined by the Personal Property Management Office at ST_Personal_Property@Hq.dhs.gov or through the applicable Office APO, Project Manager (PM), or CO.

6.2 PROPERTY ACCOUNTABILITY

6.2.1 When contractors are furnished with GFP, DHS barcodes will not be removed. In all GFP cases, the Government retains title to the property.

6.2.2 It is the contractor's responsibility to use contract property as it was authorized and for the purpose intended. In the event the contractor uses contract property for other purposes without written authorization from the CO, the contractor may be liable for rental, without credit, of such items for each month or part of a month in which such unauthorized use occurs.

6.2.3 The Contractor is directly responsible and accountable for all contract property in its possession in accordance with the requirements of the particular contract; this also includes any contract property in the possession or control of a subcontractor.

6.3 PHYSICAL INVENTORY

In addition to requirements provided under FAR § 52.245-1:

6.3.1 The Contractor, jointly with the PIADC APO on a quarterly basis, shall perform, record, and disclose physical inventory results of CAP and GFP.

6.3.2 The Contractor shall, on an annual basis, perform, record, and disclose physical inventory results of CAP and GFP that meets the threshold of accountable personal property to the PIADC APO and COR. The inventory results will include a verification for accountable property to include a photo of each asset which depicts both the serial number and the date (can be written on a piece of paper next to asset). If there is a large number of assets, a scanner (for DHS barcodes – provided by the PIADC APO to the COR and so to the vendor) will be provided by the PPMO for assignment/and/or use during inventory. Training will be provided as needed.

6.3.3 As requested, inventory results will be completed, certified, and submitted in the timeframe defined at the time of the request, to the PIADC APO and COR using the provided Sunflower Assets Management System Template to enter data for all accountable assets. This includes original assets purchased as part of the original contract award (within SOW) and additional assets purchased throughout the life of the contract. Vendors will provide template information to the COR not less than once per month.

6.4 PROPERTY DISPOSAL

6.4.1 All documentation and goods are the property of the United States Government and, if applicable, the contractor shall return or destroy appropriately upon request. The contractor shall comply with applicable government rules and regulations for disposal of government property. Further, the contractor shall provide necessary information to the COR and the PIADC APO for all excess property prior to taking any action.

6.4.2 The Contractor shall use Government-furnished information, data, and documents only for the performance of work under this contract and shall be responsible for returning all Government furnished information, data, and documents to the Government at the end of the performance period. The Contractor shall not release Government-furnished information, data and documents to outside parties without the prior and explicit consent of the CO.

6.5 LOST, STOLEN, DAMAGED OR DESTROYED (LDD) PROPERTY

Unless otherwise provided in the contract, the contractor is liable for LDD of contract property, except for reasonable wear and tear.

6.5.1 Any occurrence of LDD must be investigated and fully documented by the COR, who will promptly notify the CO. The contractor will submit a report of any incident of LDD contract property to the COR in accordance with FAR §45.504, "Contractor's Liability," and as detailed below, as soon as it becomes known.

6.5.2 When GFP or CAP property is LDD, the Contractor must report within 24 hours of discovery of the event to the COR who will initiate a Report of Survey. This document will be obtained from PIADC APO.

6.5.3 A Report of Survey will be prepared, regardless of whether or not preliminary research of an LDD event indicates positive evidence of negligence, misconduct, or unauthorized use and the responsible individual refuses to admit pecuniary liability.

6.5.4 The Contractor must forward this document with all supporting documentation to the COR within 5 business days of the LDD event for review.

6.5.5 The COR must submit the completed package through the PIADC APO within 5 business days of receipt from the Contractor.

6.5.6 The Contractor and COR must supply all requested information and any subsequent requests for information.

6.6 GOVERNMENT FURNISHED RESOURCES

The Government will furnish all resources to the Contractor in a manner consistent with the existing Center-Wide Support Program contract (IDIQ 70RSAT18D00000001), including fuel, electricity, water, vehicles, vessels, chartered ferries (if needed) equipment, tools, and heavy equipment.

The Government will provide the workspace, equipment and supplies necessary to perform the on-site portion of Contractor services required in this contract, unless specifically stated otherwise in this work statement.

The Contractor shall use Government furnished facilities, property, equipment and supplies only for the performance of work under this contract and shall be responsible for returning all Government furnished facilities, property, and equipment in good working condition, subject to normal wear and tear.

The Contractor shall use Government furnished information, data and documents only for the performance of work under this contract and shall be responsible for returning all Government furnished information, data and documents to the Government at the end of the performance period. The Contractor shall not release Government furnished information, data and documents to outside parties without the prior and explicit consent of the CO.

7.0 CONTRACTOR FURNISHED PROPERTY

The Contractor shall furnish all facilities, materials, equipment and services necessary to fulfill the requirements of this contract, except for the Government Furnished Resources specified elsewhere in this statement of work.

8.0 GOVERNMENT ACCEPTANCE PERIOD

The COR will review deliverables prior to acceptance and provide the contractor with an e-mail that provides documented reasons for non-acceptance. If the deliverable is acceptable, the COR will send an e-mail to the Contractor notifying it that the deliverable has been accepted.

8.1 The COR will have the right to reject or require correction of any deficiencies found in the deliverables that are contrary to the information contained in the Contractor's accepted proposal. In the event of a rejected deliverable, the Contractor will be notified in writing by the COR of the specific reasons for rejection. The Contractor may have an opportunity to correct the rejected deliverable and return it per delivery instructions.

8.2 The COR will have 12 calendar days to review deliverables and make comments, unless otherwise stated in this SOW. The Contractor shall have 12 calendar days to make corrections and redeliver, unless otherwise stated in this SOW.

8.3 All other review times and schedules for deliverables shall be agreed upon by the parties based on the final approved Project Plan. The Contractor shall be responsible for timely delivery to Government personnel in the agreed upon review chain, at each stage of the review. The Contractor shall work with personnel reviewing the deliverables to assure that the established schedule is maintained.

9.0 DELIVERABLES

The Contractor shall consider items in **BOLD** as having mandatory due dates. Items in *italics* are deliverables or events that must be reviewed and/or approved by the COR prior to proceeding to next deliverable or event in this SOW. Specific deliverable requirements, frequencies and due dates should be adjusted to match the final approved project plan and Section 4.10 above.

ITEM	SOW REFERENCE	DELIVERABLE / EVENT	DUE BY	DISTRIBUTION
1	4.8 (Sub-task 1)	Preconstruction Conference	Within 12 calendar days after award	N/A
2	4.8, 4.9	<i>Draft Contractor Project Plan</i>	For review at Preconstruction Conference	COR, CO
3	4.9	Final Contractor Project Plan	30 calendar days after Preconstruction Conference	COR, CO
4	4.10	Original Business Continuity Plan	For review at Preconstruction Conference (if not on file w/ DHS- PIADC)	COR, CO
5	4.10	Updated Business Continuity Plan	30 calendar days after Preconstruction Conference (if not on file w/ DHS- PIADC)	COR, CO

ITEM	SOW REFERENCE	DELIVERABLE / EVENT	DUE BY	DISTRIBUTION
6	4.11.1 (Sub-Task 1)	Progress Reports (procurement/manufacturing) Conceptual Design with first progress report	Monthly (first Monthly Progress Report, with schedule, is due within 30 calendar days after Preconstruction Conference)	COR, CO
7	4.11.1	Progress Reports (construction/field-work)	Weekly	COR, CO
8	4.11.2	Construction in Progress (CIP) Reports	Quarterly	COR, Project Controls
9	6.1	Government Furnished Property (GFP)	As needed throughout the PoP	COR, CO
10	6.3	Physical Inventories	Quarterly and Annual	COR, CO
11	2.2.2 (Sub-Task 2)	Present Prime-Contractor Best Value Evaluation / Consent to Subcontract	Per IDIQ contract requirements	CO, COR
12	2.2.5 (Sub-Task 5)	Conduct Pre-Lay Survey and Onshore Survey	11 weeks after award	COR
13	2.2.8 (Sub-Task 8)	<i>Complete/submit Permit Applications and Issue Notice to Mariners</i>	13 weeks after award	COR
14	2.2.5 (Sub-task 5)	<i>Installation Plan (Preliminary)</i>	15 weeks after award	COR
15	2.2.3 (Sub-task 3)	<i>Factory Acceptance Test Plan</i>	15 weeks after award	COR
16	2.2.7 (Sub-Task 7)	<i>System Commissioning / Test Plan and Procedure(s) (Preliminary)</i>	15 weeks after award	COR
17	2.2.7 (Sub-Task 7)	<i>Acceptance Test Plan and Procedure(s) (Preliminary)</i>	15 weeks after award	COR
18	2.2.5 (Sub-task 5)	<i>Installation Plan (Final)</i>	20 weeks after award	COR
19	2.2.7 (Sub-Task 7)	<i>System Commissioning / Test Plan and Procedure(s) (Final)</i>	20 weeks after award	COR

ITEM	SOW REFERENCE	DELIVERABLE / EVENT	DUE BY	DISTRIBUTION
20	2.2.7 (Sub-Task 7)	<i>Acceptance Test Plan and Procedure(s)</i> (Final)	20 weeks after award	COR
21	2.2.6 (Sub-Task 6)	Delivery of Cable & Reel to Orient Point / PIADC	34 weeks after award	COR
22	2.2.6 (Sub-Task 6)	Contractor base proposal to plan for new fiber optic to remain as installed spares. Contractor's proposal to include option for labor/equipment/material to allow new fiber optic media to interface with PIADC communications in redundant configuration.	36 weeks after award	COR
23	2.2.7 (Sub-Task 7)	Acceptance Testing	36 weeks after award	COR
24	2.2.9 (Sub-Task 9)	Prepare / Issue Final Documentation	38 weeks after award	COR
25	2.2.8 (Sub-Task 8)	<i>Permit Closeout</i>	46 weeks after award	COR
25	2.2.1 (Sub-Task 1)	Bi-Weekly Progress Meeting Minutes	First meeting within 30 calendar days after Preconstruction Conference Minutes to be issued within 5 business days after each meeting	COR

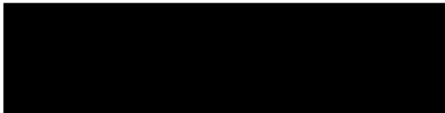
9.1 WORK PRODUCT DELIVERABLES

The following submittals are required as part of the execution of work:

- Conceptual design
- Design Drawings and Specifications
- Submittals for parts and materials
- Recommended spares list with identification of critical spares
- New or updated O&M procedures (with recommended Periodic Maintenance) frequencies compliant with manufacturer requirements and industry guidance).
- Installation Plan
- System Commissioning / Test Plan and Procedures
- Acceptance Test Plan and Procedures
- Issues (Punch List) Log
- System Commissioning/Test Report
- Acceptance Test Report
- As-Built Documentation and Drawings
- All subcontractor submittals to prime contractor shall be issued to the Government for review and approval.
- Contractor base proposal to plan for new fiber optic to remain as installed spares. Contractor's proposal to include option for labor/equipment/material to allow new fiber optic media to interface with PIADC communications in redundant configuration.

10.0 POINTS OF CONTACT

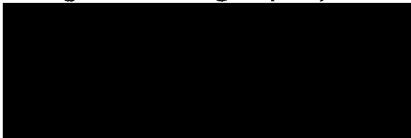
Contracting Officer (CO):



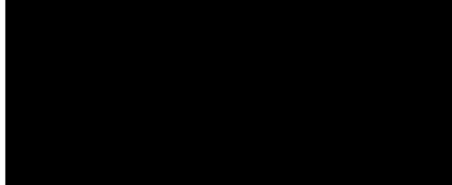
Contracting Specialist (CS):



Program Manager (PM):



Contracting Officer's Representative (COR):



[REDACTED]

Alternate COR:

[REDACTED]