

# SAN FRANCISCO BAY AREA WATER EMERGENCY TRANSPORTATION AUTHORITY

Electrical System Work to Support  
New 5,000 Gallon Diesel Exhaust Fluid (DEF) Tank  
RFQ 21-005

## **ADDENDUM NO. 1**

March 19, 2021

### **SCOPE**

This Addendum No. 1 consists of 1 page and 1 Exhibit, it includes the following:

1. Corrections.

### **1. CORRECTIONS**

Exhibit A of the RFQ is replaced in whole by the Exhibit A – Addendum 1 which is attached hereto; revision marks have been used to denote changes in the Scope of Work.

### **ACKNOWLEDGMENT BY BIDDER**

Each bidder is required to acknowledge receipt of all Addenda, including this Addendum No. 1 as specified in the RFQ by signing below.

### **ISSUED BY:**

\_\_\_\_\_  
Tim Hanners Date  
WETA

### **ACKNOWLEDGMENT:**

Bidder must sign below and return this acknowledgement with the RFQ response:

\_\_\_\_\_  
Authorized Signature of Bidder Date

## **Scope of Electrical System Work to Support New 5,000 Gallon DEF Tank**

Design and build complete electrical system installations to support delivery, control of, and indication of running power to a new DEF pump submersible pump located in a new 5,000 gallon DEF tank as described below and illustrated by Attachments 1 & 2 of this Exhibit. The new DEF tank is currently under construction by others and is expected to be complete and ready for this work by March 31, 2021. All work must be completed within 28 days from WETA's issuance of a Notice to Proceed. Without limiting the generality of the work described above, the work at a minimum includes all of the following elements:

1. All work shall be performed in accordance with WETA's safety plan, industry standard best practices, and instructions provided by WETA Representatives. Contractor must comply with all local and state health orders issued in response to the Covid-19 pandemic as may be in place and applicable at any time during the course of performance under this Agreement.
2. Provide shop drawings for WETA review and approval indicating the routing of cable and conduit to all control stations, materials specifications for all components used in construction, and a simplified one-line electrical diagram of all work.
3. Coordinate all work as necessary with the mechanical contractor installing the piping system modifications to allow for efficient construction, testing, and commissioning of the DEF systems.
4. Run appropriate power supply cabling from Panel P3 located on the Service Float to the new DEF submersible pump pigtail in the Tank Void of the Service Float. The pump requires 115VAC, 1Ø, 60Hz power supply rated at 9.8A for the 1HP motor. See Attachment 2 for the pump manual. Provide appropriate junction boxes and fittings. The submersible pump will have been installed in the new tank by others.
5. Create and wire up five (5) DEF submersible pump control panels serving the DEF distribution system to the vessel berths. Exact locations and detailing of control panels shall be determined with input from the WETA Representative, and subject to WETA approval:
  - a) Berth #1 – provide pump controls and pump running indication light in a new SS panel in the Pump Room at a location approved by the WETA Representative.
  - b) Berth #2 – located near the fueling station for Berth #2, relocate existing 120VAC outlet box downward on the uni-strut there, and install the new DEF pump control box by

- mounting it on the uni-strut above the outlet box. Label the new control box to say DEF Fill for Berth #2.
- c) Berth #3 – located near the fueling station for Berth #3, relocate existing 120VAC outlet box downward on the uni-strut there, and install the new DEF pump control box by mounting it on the uni-strut above the outlet box. Label the new control box to say DEF Fill for Berth #3.
  - d) Berth #4/6 FWD – located approximately as indicated by Attachment 1, provide new mounting location structure (uni-strut style) and SS hardware. Label the new control box to say DEF Fill for Berth #4/6 FWD.
  - e) Berth #4/6 AFT – located approximately as indicated by Attachment 1, provide new mounting location structure (uni-strut style) and SS hardware. Label the new control box to say DEF Fill for Berth #4/6 AFT.
6. DEF submersible pump control panels shall consist of properly labeled green START and red STOP buttons, and a white RUNNING indication light to indicate that the submersible pump is running. The controls shall be provided inside polycarbonate NEMA 4X waterproof latched enclosures sized appropriately for the controls, except as noted above for Berth #1.
  7. Provide new watertight deck penetrations for conduit serving Berth #2 and Berth #3.
  8. Use cabling, wire, Schedule 80 rigid PVC conduit, PVC fittings, PVC flexible conduit, SS or hot-dipped galvanized fasteners, et cetera to match existing installations.
  9. ~~Provide a new multi-cable transit (MCT)~~Run conduit and wiring through the existing open bulkhead penetration in the bulkhead between the Tank Void and the Shore-end Void. ~~The new MCT shall be identical to the existing MCT between the Service Float and Float 2.~~ Submersible pump control cabling and conduit shall pass through this new MCT penetration to feed pump control power and indication to Berths #4/6. The piping contractor will also use this MCT penetration to route piping between the two voids. After all conduit and piping are run through the existing open bulkhead penetration, the electrical contractor shall fill the penetration with red fire stop putty from both sides to ensure a positive seal.
  10. Cabling/conduit between floats shall include a length of flexible conduit looped to allow for relative motions between the floats. Conduit runs along Floats 2, 4, and 5 shall be suspended under the walkway gratings using existing uni-strut mounting locations. Where necessary install a second lower tier of uni-strut, suspended from existing uni-strut, to accommodate conduit runs. Hardware used shall match existing.
  11. All cabling shall be clearly identified and labeled using SS cable tags or other identifying methods.

12. Unless otherwise specified herein or approved by WETA, all fasteners/fittings used shall be SS316 or hot-dipped galvanized depending on installation location.
13. Test and commission the system in cooperation with the mechanical contractor installing the new DEF distribution piping to confirm proper operation of all DEF pump control stations.
14. Provide loose one complete DEF pump control panel as a ready service spare. Provide loose one spare DEF submersible Blue Diver 1200 pump as a ready service spare, see Attachment 2 for details.