STATEMENT OF WORK Original 02/12/16 534-16-2-5088-0034

A. GENERAL INFORMATION

1. TITLE OF PROJECT: Replace fuel oil tank level monitor and alarm system
2. SCOPE OF WORK: The contractor shall provide all resources specified to perform the work described, including all labor, travel, and per diem. All work to be performed at the Ralph H. Johnson VA Medical Center (RHJ VAMC) located at 109 Bee Street, Charleston, SC 29401, contact telephone [redacted]. Local time is based on RHJVAMC location.
3. BACKGROUND: Current fuel tank level monitor and alarm system has failed, one tank level probe has failed, and cpu/printer board in system has failed.
4. PERFORMANCE PERIOD: The contractor shall complete the work required under this Statement of Work (SOW) within 60 days after date of award unless otherwise directed by the Contracting Officer (CO).
5. TYPE OF CONTRACT: Firm-Fixed price

B. GENERAL REQUIREMENTS

These specifications are a statement of the minimum level of work and services that are to be provided under this contract. They are not intended to be, nor shall they be construed as, limiting specifications or requirements. At a minimum, the contractor shall be required to take all steps and measures which would be taken by a prudent building owner to ensure that the equipment installed can be operated at full capacity for the foreseeable future. The desired fuel tank monitor and alarm system shall be a minimum of a Veeder-Root TLS-350 or equivalent, a Technical Evaluation Team will determine if Contractor's monitor and alarm system meets equivalency requirement.

1. Digital systems complete with all transducing, transmitting, and receiving devices, an onboard printer to provide complete report of all system functions upon command. System to be combined with leak detection system for central monitoring of fuel and water levels in all fuel oil storage tanks in the project, one (1) 8,000 gallon underground storage tank (UST), one (1) 10,000 gallon UST, two (2) 6,000 gallon above ground storage tanks (AST). The system will provide the following at a minimum:
    a. High and low level visual and audible alarms installed locally in the boiler plant outer office (C104A) with remote high level alarms installed in the boiler plant courtyard to prevent tank overfill (see B.5 below).
    b. Volumetric tank-tightness testing.

2. Fluid Level Monitor:
    a. Digital continuous readout, showing tank oil and water levels in gallons, smallest reading one gallon. Provide identification of product measured, measuring units, and the tank number.

b. Tank and fuel characteristics contained in preprogrammed non-volatile field-replaceable databases. Protected power supply.

3. High and Low Fluid Level Alarm System:
    a. Automatic continuous on-line monitoring of all tanks including interstitial spaces.
    b. Visual and audible indicators combined with fluid level monitor. Identify the tank that is in alarm condition.
    c. Manual alarm test and silencing controls.
    d. Low level alarm actuation adjustable 0-25 percent of tank capacity. High level alarm actuation adjustable 75-100 percent of tank capacity.

4. Locate in [redacted], all indicators, selector switches, local alarms on face of wall-mounted NEMA 250, Type 4 panel if not included as part of a package installation.

5. Remote Alarm Annunciator:
    a. Visual and audible high level alarms adjacent to tank fill box locations. Locate in NEMA 250 Type 4X weatherproof exterior wall or pole-mounted panels.
    b. Alarm shall include flashing red light with 180 degree visibility for each tank and 95 dB horn or 100 mm (4 inch) diameter bell. Provide alarm silence control.
    c. Provide identification sign: "WHEN ALARM SOUNDS - FUEL TANK FILLED TO CAPACITY - DO NOT OVERFILL".

6. Modbus communication to engineering control system to indicate tank fluid level and alarm conditions. Telephone modem communication capability.

7. System Performance: Accuracy plus or minus 2.5 mm (0.01 inch) of fluid height in inventory mode and 0.25 mm (0.001 inch) in leak detection mode. Automatic compensation for fluid temperature changes. Volumetric tank tightness sensitivity of 0.4 lph (0.1 gph).

8. Sensors:
    a. Provide sensor types such as magnetostrictive, capacitance, float, hydrostatic and other types as necessary for the applications.
    b. Apply in accordance with manufacturer’s instructions with provisions for easy future replacement without need for excavation.
    c. Provide for each hydrostatic sensor a constant flow differential pressure regulator and pneumatic transmitter protected from fuel contamination. Air supply shall include filter and over-pressure protection. Provide desiccant-type dryer on air supply designed for removal of water vapor. Dryer rating, minimum 280 cubic liters per minute (10 scfm). Provide moisture indicator.

Dryer may be deleted if air supply source has a refrigerated dryer.

d. Float-type units shall be designed for installation and removal through a 100 mm (4 inch) diameter vertical pipe mounted in the top of the tank.

9. Underground Wiring and Piping: Enclose in water-tight corrosion-resistant conduit system sized and arranged as recommended by system manufacturer and conforming to Section 26 05 41, UNDERGROUND ELECTRICAL CONSTRUCTION (http://www.cfm.va.gov/TIL/spec.asp#25 or hard copy upon request).

10. Code Conformance: NFPA-70.

C. CHANGES TO STATEMENT OF WORK

Any changes to this Statement of Work (SOW) shall be authorized and approved only through written correspondence from the CO. A copy of each change will be kept in a project folder along with all other products of the project. Costs incurred by the Contractor through the actions of the parties other than the CO shall be borne by the Contractor.

D. REPORTING REQUIREMENTS

The Contractor shall obtain all necessary licenses and/or permits required to perform the work. In addition, the Contractor shall provide the CO with a copy of any licenses and/or permits obtained.

E. TRAVEL

All work is to be conducted at the RHJ VAMC located at 109 Bee Street, Charleston, SC 29401, contact telephone [redacted]. The Contractor is responsible for any anticipated travel and per diem.

F. GOVERNMENT RESPONSIBILITIES

1. The VA shall grant the Contractor access permission to all areas of the RHJ VAMC necessary to provide the services required under this contract.
2. Facilities will be available Monday through Friday from 07:00 to 17:30 local time exclusive of Federal Holidays unless CO authorizes work at other times in writing.

G. CONTRACTOR EXPERIENCE REQUIREMENTS

The Contractor shall be licensed to provide the services requested, and capable of providing the services specified above. The Contractor shall provide trained supervisory personnel, and trained technicians experienced in fuel tank monitor and alarm hardware/software

installation. The Contractor will provide proof in writing of satisfactory completion of at least two (2) previous installations in similar facilities. The Contractor will meet all Federal, State and local laws and regulations as well as Safety Requirements during the installation.

H. CONFIDENTIALITY AND NON-DISCLOSURE

It is agreed that:

1. The preliminary and final deliverables, and all associated working papers, application source code, and other material deemed relevant by VA which have been generated by the contractor in the performance of this task order, are the exclusive property of the U.S. Government and shall be submitted to the CO at the conclusion of the task order.
2. The CO will be the sole authorized official to release, verbally or in writing, any data, draft deliverables, final deliverables, or any other written or printed materials pertaining to this task order. No information shall be released by the contractor. Any request for information relating to this task order, presented to the contractor, shall be submitted to the CO for response.
3. Press releases, marketing material, or any other printed or electronic documentation related to this project, shall not be publicized without the written approval of the CO.

I. CONTRACTOR PERSONNEL SECURITY REQUIREMENTS

The C&A requirements do not apply, and that a Security Accreditation Package is not required.

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