STATEMENT OF WORK (SOW)
FOR
USCG Base Portsmouth range Thermal Evaporator Instillation

1.0 GENERAL

1.1 BACKGROUND
During essential cleaning and repair operations at the Base Portsmouth Range, personnel's clothing is highly susceptible to contamination from lead residue. As staff conduct repairs and cleaning of the range lead residue adheres to the fabric of their uniforms. Due to the Hampton Roads Sanitation Department (HRSD) regulations, which strictly limit the concentration of lead residue that can be discharged into the public sewer system, utilizing a standard clothes washer for cleaning lead-contaminated work garments is not a viable option. A normal washing machine would release water containing a high concentration of lead particulate, far exceeding the permissible levels set by HRSD for industrial wastewater. To address this compliance issue, the installation of a thermal evaporator system is necessary.

Location of work: 4000 Coast Guard BLVD

1.2 SCOPE
The work consists of providing all labor, materials and equipment to furnish and Install a Thermal Evaporator. With the specification below.

- Capacity: 10 GPH
- Tank Capacity: 40 gallons Low Level, 55 gallons Auto Level, 65 gallons @ High Level.
- Evaporation Capacity: 10 Gallons/Hour, 240 Gallons/Day, 1680 Gallons/Week, 87600 Gallons/Year.
- Tank and Heat Exchanger Material: 316L Stainless Steel.
- Exterior Skins: 304 Stainless Steel.
- Control Panel: NEMA 4 with 7" touchscreen HMI.
- HMI monitoring air temperature, water temperature, fan proving switch.
- Natural Gas Fired Burner w/Gas Volume Meter, Pressure Gauge, and Regulator.
- Auto-Fill Level Controls: low level, auto-run level, and redundant high level shut-off.
- Safety Shutdowns: high liquid temperature, fan proving switch, low level, high chimney temperature, level probe.
- diagnostic condition verification.

- *SS316L Compression Fit Mist Eliminator – Monitored and Interfaced to the Control Panel.*
- *Oil Overflow Weir and Outlet.*
- *6" Flanged Cleanout with 1.5" NPT fitting for optional Residue Removal Pump.*
- *Hinged Lids for ease of access to the inside of the evaporator for faster cleaning.*
- Air Actuated Feed Isolation Valve – SS
- Feed Pump - Air Diaphragm - P13 Poly (24V)
- Foam Detection Probe w/Dithering Logic.
- Anti-Foam Dosing System (AFS 1)
- Extended Tank Wall Height (SUPER STAINLESS 10-72)
- Spare Parts Package (10 GPH model) spare parts package includes common spares such as: gaskets for heat exchanger and clean-out flanges, mist pad, two (2) level probes, thermocouple and thermowell, and digital temperature transmitter.

2.1 TASK ONE. Site Preparation

2.1.1 Prepare the installation site, ensuring a level and stable surface for the evaporator.

2.1.2 Verify that the installation area meets the dimensional and weight requirements of the unit.

2.1.3 Ensure proper ventilation and clearances around the unit as per the manufacturer's recommendations.

2.2 TASK TWO. Thermal *Evaporator Install*

2.2.1 Install the thermal evaporator in the designated location per manufactures installation instructions.

2.2.2 Install all necessary ancillary equipment.

2.2.3 Connect the evaporator to the existing electrical power supply for controls, pumps, and blower motors.CG will install the power supply that the Evaporator will be connected to.

2.2.4 Connect all low-voltage control wiring, including the thermostat and safety switches.

2.2.5 Connect the exhaust stack and ensure it is routed to an appropriate location outside the building.

2.2.6 Furnish and Install a new natural gas supply line from the main building service to the evaporator location.

2.2.7 Connect the wastewater feed line, residue discharge line, and all other required plumbing.

2.3 TASK THREE. ***System Startup and Commissioning***

2.3.1 Perform a thorough system startup, including leak checks on all gas and fluid lines.

2.3.2 Verify all safety controls, including flame sensors and emergency shutdowns.

2.3.3 Provide training to facility personnel on the proper operation and maintenance of the new evaporator.

3.0KEY PERSONNE

Project Manager

3.1 PROJECT MANAGER

3.1.1 The Project Manager must be available to the QAE via telephone between the hours of 0700 and 1530 EST, Monday through Friday, and must respond to a request for discussion or resolution of technical problems within 24 hours of notification.

3.2 EMPLOYEE IDENTIFICATION

3.2.1 The QAE will provide a Base Access request form. The Contractor will need to return the Base Access form with list of all employees to the QAE Representative five (5) days prior to commencing work. The USCG Base Portsmouth Security Office will be given a copy of the employee list, and a pass will be issued for entry. A valid state license plate and safety inspection sticker is required. All vehicles operated on government property shall be maintained in a good state of repair.

3.3 EMPLOYEE CONDUCT

Contractor's employees must comply with all applicable Government regulations, policies and procedures (e.g., fire, safety, sanitation, environmental protection, security, and possession of weapons) when visiting or working at Government facilities. The Contractor must ensure Contractor employees present a professional appearance at all times and that their conduct must not reflect discredit on the United States or the Department of Homeland Security. The

Project Manager must ensure Contractor employees understand and abide by Department of Homeland Security established rules, regulations and policies concerning safety and security.

3.4 REMOVING EMPLOYEES FOR MISCONDUCT OR SECURITY REASONS
The Government may, at its sole discretion (via the Contracting Officer), 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 Contracting Officer will provide the Contractor with a written explanation to support any request to remove an employee.

3.5 SITE VISIT
A site visit is recommended to conduct field verification of any/all quantities and measurements before submitting bids. Interested parties shall make arrangements for a site visit with the **QAE.**

3.5.1 DESIGNATED CONTRACTING OFFICER'S QA EVALUATOR (QAE) REPRESENTATIVE

Nathan Chappell. (206)815-2176 **Nathan.C.Chappell@uscg.mil**.

3.5.2 All site visits are to be pre-arranged a minimum of three (03) days in advance. To arrange a site visit, the QAE will email a base access form to be filled out.

3.5.3 CONDITIONS AFFECTING THE WORK
The Offeror should visit the site and take such other steps as may be reasonably necessary to ascertain the nature and location of the work, the general and local conditions which can affect the cost of the work thereof. Failure to do so will not relieve bidders from responsibility for estimating properly the difficulty or cost of successfully performing the work. The government will assume no responsibility for any understanding or misrepresentations concerning conditions made by any of its officers or agents prior to the execution of the contract, unless included in the request for quotes, the specification or related documents. All contractors that require Base access will have to be pre-vetted for entry prior to commencement of work.

3.6 SECURITY
Each contractor that does not have Real ID on their Driver licenses will need to present one of the following credentials:
. U.S. Department of Defense ID, including IDs issued to Active Duty, Reserve, National Guard, retirees and dependents.
. RAPIDGate Credential
. HSPD-12 PIV card
. State-issued Enhanced Driver's License
. U.S. passport
. U.S. passport card
. DHS trusted traveler cards (Global Entry, NEXUS, SENTRI, FAST)
. Permanent resident card
. Border crossing card
. Federally recognized Tribal Nation/Indian Tribe, including Enhanced Tribal Cards (ETCs)
. Foreign government-issued passport
. Canadian provincial driver's license or Indian and Northern Affairs Canada

card
. Transportation worker identification credential . U.S. Citizenship and Immigration Services Employment Authorization Card (I-766)
. U.S. Merchant Mariner Credential
. Veteran Health Identification Card (VHIC)

3.7 AWARD OF THE CONTRACT: The contractor must immediately notify the contracting officer's QAE representative of his intended start date. The work shall be done in accordance with the specification.

4.0 PERIOD OF PERFORMANCE

The period of performance for this contract must not exceed 30 working days after contract award or as negotiated with Contracting Officer and Facilities Engineering.

4.1 PLACE OF PERFORMANCE

The primary place of performance will be at 4000 Coast Guard Blvd, Portsmouth, VA 23703. Custom manufacturing will be conducted at Contractor's facility and installation will be conducted at the USCG Base Portsmouth.

4.2 HOURS OF OPERATION

Contractor employees must generally perform all work between the hours of 0700 and 1530 EST, Monday through Friday (except Federal holidays). However, there may be occasions when Contractor employees must be required to work other than normal business hours, including weekends and holidays, to fulfill requirements under this SOW. If the contractor desires to carry on work on Saturday, Sunday, holidays or outside the station's regular hours, he may submit his request in writing to the Contracting Officer's QAE Representative for approval consideration. The contractor shall allow ample time to enable satisfactory arrangements to be made by the government to inspect the work in progress.

4.3 TRAVEL

Travel shall not be included as an additional/separate line item. Travel is required for delivery and installation purposes and shall be included as part of the overall cost.

4.4 GENERAL REPORT REQUIREMENTS

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

4.5 CONTRACTOR FURNISHED PROPERTY

The Contractor must furnish all facilities, materials, equipment and services necessary to fulfill the requirements of this contract.

4.6 GOVERNMENT ACCEPTANCE PERIOD

Upon completion of work, contact the Contracting Officer QAE Representative to arrange for inspection/acceptance of work.

4.6.1 The QAE will conduct an inspection of the work conducted by the Contractor and will have the right to reject or require correction of any deficiencies found 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 QAE of the specific reasons for rejection. The Contractor may have an opportunity to correct the rejected deliverable and return it per delivery instructions.

5.0 OTHER APPLICABLE CONDITIONS

5.1 SECURITY/SAFETY

All contractors working on CG Base Portsmouth shall abide by all federal safety regulations as published by the Occupational Health and Safety Administration, 29 CFR 1910 (series) and 29 CFR 1926 (series). Contractor written safety programs shall be reviewed by the Base Safety Officer prior to starting work.

Written notification must be provided to the **Base Safety Officer;** in their capacity as Base Fire Marshal of any activity that could potentially cause fire or explosion or that changes or reduces the capability of fighting a fire or explosion. Some examples of qualifying activities are: a fire hydrant or fire suppression system that must be taken out of service for any reason, electrical work that affects fire alarm systems, introduction of hazardous or flammable material onto the Base, and blocking of any egress routes or emergency vehicle routes. Inclusion of this information in the contract constitutes written notification as long as the outsource review sheet is signed by Base Safety Officer.

Lock Out/Tag Out requires notification and coordination with facilities and will not be conducted by a contractor on Base Portsmouth. A Facilities Division representative is required for all contractors Lock Out/Tag Out needs.

Every employee working on Base Portsmouth has the right to a safe and healthy work place. The contractor has the responsibility and right to stop unsafe work. QAE's and the Safety Officer may also institute a work stoppage relating to unsafe practices or immediate danger to life and health situations.

5.2 ENVIRONMENTAL PROTECTION REQUIREMENTS:

All contractors working on CG Base Portsmouth shall abide by all federal environmental regulations as published by the Environmental Protection Agency, 40 CFR (series). Contractors written environmental management and pollution prevention programs shall be reviewed by the **Environmental Protection Specialist** prior to starting work and must be in accordance with ICSPORTSVA INSTM5090.2, the Unit Environmental Guide.

Written notification must be provided to the Environmental Protection Specialist of any activity that could potentially cause a permit violation on Base Portsmouth. Some examples of qualifying activities are: any activity that could result in a spill or discharge into a waterway or introducing a hazardous material into the environment.

Copies of the following must be provided to the Environmental Protection Specialist prior to starting work in affected areas: Material Safety Data Sheets, permits, and notices of intent.

Hazardous materials used by a contractor are required to be disposed of by that contractor. Disposal must be in accordance with federal, state, and local guidelines.

5.3 PERMITS: The contractor shall, without additional expense to the government, obtain all appointments, licenses, and permits required for the prosecution of the work. The contractor shall comply with all applicable federal, state and local laws.

5.4 WORKMANSHIP: All work shall be accomplished with the best standard practices, and by workmen thoroughly experienced in the required trades. The work shall be supervised by experienced personnel and shall be satisfactory for the Contracting Officer.

5.5 ORAL MODIFICATION: No oral statement of any person other than the contracting officer shall in any manner or degree, modify or otherwise affect the terms of this contract.