

STATEMENT OF WORK FOR
ANNUAL CLEAVER BROOKS BOILERS INSPECTION/CLEANING
BAY PINES VA HEALTHCARE SYSTEM

1. **GENERAL:** Contractor shall furnish all labor, materials, parts, supervisions, services and incidentals to perform an annual cleaning on three (3) Cleaver Brooks boilers CBX-500Hp. Work shall be completed one boiler per month during the following months: October, November, and December. Only one boiler at a time will be out of service for cleaning and certifying inspection.

- Technician shall follow all Lock Out & Tag Procedures for fuel and electrical.
- Drain boiler; open hand holes (and man hole) and inspect watersides; check for oxygen attack on tubes; wash out watersides (* see 'Notes' RE: hard water scale deposits).
- Open front and rear doors; inspect firesides (front and rear tube sheets, furnace, boiler tubes, boiler shell); check for corrosion on boiler steel; clean tubes of soot deposits.
- Clean and inspect burner assembly.
- Clean and inspect pilot ignition electrode; adjust gap for ignition electrode.
- Remove McDonnell-Miller Float Control (head mechanism) & inspect internals/mechanical linkage and replace with new gaskets.
- Replace Gauge Glass and Gaskets on Gauge Glass Valve set for McDonnell & Miller LWCO.
- Close and seal watersides and firesides of boilers; replace (install new) gaskets.
 - **Note: Inspection by a separate qualified third party contractor of the boilers shall occur prior to closing the boiler. This contractor is hired by the VA separately. All coordination between contractors shall be done by the COR.**
- Fill boiler; for Bay Pines VHA staff to fire boiler the next day, Certifying inspection techs will check operation of all operating and safety controls the next day when doing combustion analysis.
- Perform "slow evaporation test" to verify primary [McD-M] Low Water Cut-Off is functional.
- Personnel will come back the next day when there is a load to Adjust combustion for optimum combustion efficiency and reliable operation. **ONLY PERFORM COMBUSTION ON "NATURAL GAS"**

1.1 **WORK REQUIRMENTS:** Work will be conducted professionally and timely. Contractor will issue a report of findings and conditions within (3) three days of cleaning and inspection of each boiler. Each boiler will be cleaned and certified operational prior to taking another boiler out of service.

1.2 **HOURS OF WORK:** The contractor shall perform all maintenance and calibrations during normal working hours 8:00 AM. To 4:30 PM., Monday thru Friday, government holidays excluded and shall submit a schedule of the shutdowns necessary to accomplish the work at least two weeks in advance of the requested shut down time. The VA Boiler Plant Supervisor must approve all proposed shutdowns. All shutdowns are subject to cancellation at any time

due to circumstances in which the shutdown of controls or systems would have an adverse effect on the medical center's operations. The cancelled shutdown will be rescheduled as soon as possible. The government shall not incur any cost due to the cancellation and rescheduling of the shutdown).

1.3 EMERGENCY SERVICES shall be available as needed.

1.4 RESPONSE TIME: Services shall be responded to as scheduled and coordinated with the VA Boiler Plant Supervisor.

2. TECHNICIAN QUALIFICATIONS:

2.1 Technicians shall have completed at least a one-year trade school and have five years' successful experience in this field. The experience shall be largely with institutional and industrial boiler plants similar to Cleaver Brooks CBX Boilers. Technicians shall have a work history of at least 5 years working on installation and cleaning of cleaver brooks fire tube/ water tube boilers.

2.2 Contractor shall hold a current Mechanical Contractors License and Professional Engineers License; and be familiar with Florida requirements. The VAMC facility manager/engineer may define and accept equivalent qualifications.

2.3 Technicians shall demonstrate familiarity with and ready access to the current versions of the following references:

NFPA 85, Boiler and Combustion Systems Hazards Code.

VHA Boiler Plant Safety Device Testing Manual, 3rd Edition.

2.2 Technicians shall be equipped with portable electronic flue gas analyzers and other test instruments necessary for the required tests and calibrations, all calibrated within one month of the site visits. Calibration reports shall be provided to the COR prior to the start of work each year.

2.3 Contractor who performs annual cleaning shall in no way be associated with contractor who performs the annual certification of the boilers and safety devices. Contractors are to be completely independent and shall not share a prime contractor.

3. PERSONNEL

3.1 POINT OF CONTACT (POC). The Contractor shall provide a primary Point of Contact who shall be responsible for the delivery and performance of the work. The name of this person, and any alternate(s), to include duty hours and telephone numbers, shall have full authority to act on behalf of the Contractor's firm for the specific order (call) and shall be identified prior to performance.

3.3 The Contractor will notify the COR upon entering and exiting the boiler plant.

3.4 Contractor personnel shall wear a badge, issued by Bay Pines VA Police, clearly displayed at all times while working at Bay Pines VA.

3.5 Protective clothing, footwear and other items shall be in compliance with OSHA and/or other Federal/State/local requirements.

3.6 The Contractor shall be responsible for the conduct and appearance of his employees while working on. The Contractor's employees shall remain fully clothed at all times while performing under this contract; this includes shirts with sleeves, shoes and long pants. Tank tops, shorts and inappropriate tee shirts worn as outerwear are prohibited. The Contractor will be required to remove from the work site any employee working under this contract for reasons of conduct, security, or found to be or suspected to be under the influence of alcohol, drugs and any other incapacitating agents. Removal from the work site or dismissal from the premises shall not relieve the Contractor of the requirement to provide sufficient personnel to perform the services as required.

3.7 All personnel employed by the Contractor in the performance of this contractor, or any representative of the Contractor entering the Government, shall abide by all the regulations of the installation.

4 CONTRACTOR FURNISHED ITEMS AND SERVICES.

4.1 Certificates, Licenses, Training and Permits. The Contractor shall, at no additional cost to the Government, obtain all certificates, licenses and permits required for performance of Boiler Efficiency Institute (BEI) services, and for complying with all applicable local, state, and Federal laws, rules and regulations. Contractor shall provide VA training certificates and manufacture approved authorized factory servicing agreements. Contractor shall provide all equipment

necessary to complete the disinfection and testing, including equipment, materials, and testing needed to meet OSHA requirements for a safe work site.

4.2 SUBMITTALS: Contractor shall provide submittals for all chemicals, materials, and parts that he intends to use to complete this SOW. Contractor shall also provide the confined space entry plan and Lock Out/Tag Out plan prior to starting work. This shall be submitted to the COR at least 14 days in advance of starting work.

5 SAFETY

5.1 CONFINED SPACE

The Bay Pines VA Healthcare System complies with the Occupational Safety and Health Administration (OSHA) confined space requirements as detailed in 29 CFR 1910.146. The above ground water tanks located at the C. W. Bill Young Medical Center have been evaluated and deemed to meet the definition of permit required confined spaces. All confined space entry shall comply with 29 CFR 1910.146. A site-specific Confined Space Entry plan, that specifically addresses entry conditions, air monitoring and rescue services, shall be developed and submitted to the Facility Safety and Emergency Management Service.

Confined space entry permits shall be authorized by the Facility Safety and Emergency Management Service. Contractors shall coordinate with their Project Manager to request entry permits. Written request to de-classify a (PRCS) to a (CS) may be documented in writing and submitted to the Facility Safety and Emergency Management Office for consideration and approval.

5.2 CONTROL OF HAZARDOUS ENERGY

A site- specific plan that describes the isolation procedures that the contractor will use, in collaboration with the Facility Engineering staff to isolate and secure plumbed supply water from entering the AST during periods of servicing and maintenance will be required. All installation, maintenance, and servicing of equipment or machinery shall comply with 29 CFR 1910.147.