

STATEMENT OF WORK
RETROFIT AND REPAIR OF CHILLER SWITCH
At the Coatesville VAMC
July 27, 2015

INTRODUCTION:

The contractor shall provide all resources necessary to accomplish the deliverables described in this statement of work (SOW) for the retrofit and repair of the Chiller switch and all of its components per the ANSI NETA MTS latest edition.

Upon completion a formal report must be furnished with all the findings, corrections made and the recommendations.

This SOW describes the requirements for the Qualified Electrical Contract Professionals – known as “Contractors” in this document, hereafter. Contractors who are contracted by VHA Medical Center to perform the retrofit and repair of the Chiller switch and all of its components and shall meet all requirements stated in the section titled “Qualifications of Contractors” of this SOW.

HOURS OF WORK:

Pricing should be based on completing all of this work on overtime hours (beyond eight hours Monday-Friday, and all hours on Saturday) Request for work schedule must be submitted in writing ten days prior. “Shut downs” require a prior fifteen (15) working day notification and must be accomplished on weekends.

Provide all supervision, labor, materials and supplies for the retrofit of a Three (3) Pole 5KV switch FPE Line Up and Fuse Holder.

QUALIFICATIONS OF CONTRACTORS:

Field Service Technicians who have successfully demonstrated their knowledge and experience in the field of Electrical Power Distribution System Testing shall perform Field service work. The Field Service Technicians shall be capable of (1) testing, assessing, evaluating, servicing and reconditioning components, (2) assuring that the equipment on

which work has been performed is safe, reliable and acceptable for its intended purpose, and (3) identifying defective or additional equipment and potential safety problems, environmental hazards, code violations.

- A. Contractors shall be certified by the National Electrical Testing Association (NETA) as NETA Certified Technician, and completed the Occupational Safety & Health Administration (OSHA) approved 10-hour construction safety training. Contractor shall provide proof of all certifications upon request.
- B. Contractors shall have technical trainings, and track records of working experience in maintenance, inspection, and testing of high voltage electrical power distribution and its components in healthcare, industrial, educational, and commercial facilities for a minimum of three (3) continuous years.
- C. Contractors shall have safety trainings – either on-the-job or class-room type - in electrical safety outlined in the OSHA Standard 29 Code of Federal Regulations (CFR) 1910 Subpart S – Electrical, and the NFPA 70E – Standard for Electrical Safety in the Workplace. Training certifications shall be made available to the VA Contracting Officer upon request prior to work.
- D. Contractors shall have ready access to the latest versions of the following references:
 - 1) NFPA 70, National Electrical Code.
 - 2) NFPA 70B, Recommended Practice for Electrical Equipment Maintenance.
 - 3) NFPA 70E, Standard for Electrical Safety for the Workplace.
 - 4) NFPA 110, Standard for Emergency and Standby Power System.
 - 5) OSHA Standard 29 CFR 1910, Subparts I & S.
 - 6) International Electrical Testing Association, Inc. (NETA) – Maintenance and Testing Specifications latest edition.
 - 7) Operating /Maintenance manuals and specifications of the electrical equipment to be maintained and tested. These documents may be obtained from the VHA Medical Center, or the equipment manufacturers.
- E. Contractors shall be equipped with all necessary tools, equipment, and Personal Protective Equipment (PPE) to perform the work safely, effectively, and timely. Tools, equipment, and PPE shall comply with the requirements of OSHA Standard 29 CFR 1910, Subpart I, and NFPA 70E.

SUMMARY OF WORK:

A. GENERAL INFORMATION

Complete NFPA required electrical repair to retrofit 5000 Volt 3 Pole Switch and fuse and buss bar assembly. Replace components with new.

1. De-energize switchboard for up to 18 hours to perform retrofit and replacement
2. Remove the original equipment manufacturers (OEM) 3-pole switch and install new 3 pole switch
3. Install new cross member and line side buss / fuse holder
4. Refit to the new switch
5. Brace to the original short circuit bracing or the OEM assembly
6. Reinstall all components
7. Conduct thorough testing on installed components to include ampere and thermal testing.

B. **REPORTING DEFECTS:** The Contractor shall immediately notify the Contracting Officer and COR in writing in a separate report from the testing report of the existence of any defects in, or repairs required to the electrical power distribution system and shall furnish a written estimate of the cost to make the necessary repairs. The deficiencies repairs shall not be part of this contract. Any repairs identified under this contract will be required to be repaired under a separate procurement. The Coatesville VA Medical Center reserves these rights to source to another contractor if so required.

C. **FINAL REPORT:** Provide complete written reports of the work. Information shown in the report shall be as following:

- 1) Company's name, address, telephone & FAX numbers.
- 2) Name and signature of contractors who perform the maintenance and testing.
- 3) VA Work Contract Number, name and number of VA Contracting Officer.
- 4) Date and Time of work.
- 5) Copies of contractors' valid licenses, professional and training certificates if required.
- 6) Descriptions and model number of specialized tools and equipment used, such as infra-red scanning camera, etc.
- 7) Location, Type, Name, and nameplate information of electrical equipment to be maintained and tested.
- 8) Descriptions of work items.
- 9) Test data.

- 10) Reference materials such as equipment manufacturer's specifications.
- 11) Remarks on conditions of electrical equipment. List all deficiencies, if any.
- 12) Recommended corrective actions, if any.

Submit hard copy of the complete invoice to the Contract Officer Technical Representative within fourteen (14) calendar days of visit. All reference materials shall be included in the electronic version of the report, either through scanning or other means of electronic text import methods.

Contractors shall report deficiencies that are deemed critical or catastrophic immediately to the Contract Officer Technical Representative and the Chief of Engineering Service for immediate actions.