

**PERFORMANCE WORK STATEMENT
MAINTAIN CATHODIC PROTECTION
WATER STORAGE TANKS 7266 AND 88491
ELLSWORTH AFB, SD
5 April 2016**

1. SCOPE: Provide all labor, materials, equipment, and transportation necessary to replace the existing cathodic protection at Fire Storage Tanks 7266 and 88491 at Ellsworth AFB, SD.

2. PROCEDURE: Contractor shall become familiar with site conditions prior to performing work. Contractor must be certified as a Corrosion Specialist accredited by National Association of Corrosion Engineers (NACE) as a senior corrosion technologist, corrosion specialist, or cathodic protection specialist.

2.1.1 All work shall be done while tanks are empty. The Government will drain both tanks upon coordination with Contractor schedule. Draining will be done in conjunction with the 28th CES/CEOER Quality Assurance (QA) inspector at 385-2601. They will direct and aid in the procedure to ensure all requirements/policies are met.

2.1.2. All work must be coordinated with Contracting Officer and 28th CES/CEOER QA. Any utility outages shall be scheduled and coordinated 2 weeks in advance of the outage date and shall be coordinated with Contracting Officer and 28th CES/CEOER QA. Once work begins on outage, work must continue without interruption until the contractor restores utility services to the affected line(s) and/or facility.

2.2. Testing: Testing must be conducted in accordance with AWWA D104. The following test shall be performed on the water storage tanks.

2.2.1. After tank returned to service, the system shall be re-energized and calibrated to industry standards to provide adequate protection. The Government will fill both tanks upon coordination with Contractor schedule.

2.3. Cleaning: Contractor shall be responsible for tank cleaning as required to perform work and clean-up of work related debris prior to returning tank to service.

2.4. Repairs: Repairs must be made in accordance with American Water Works Association (AWWA) standards, National Association of Corrosion Engineers (NACE), OSHA regulations and standards, and all other federal, state, and local regulations and standards.

2.4.1. Install interior cathodic protection anode system for both tanks to include the following:

2.4.1.1. Rope anode assemblies shall be 0.118 in. diameter mixed metal oxide anode element.

2.4.1.2. Electrodes shall be magnetic mount copper/copper sulfate.

2.4.1.3. Subconn or equal underwater gland seals with male NPT pipe threads on each end.

2.4.1.4. Support rope, ties, and miscellaneous connectors.

2.4.1.5. Handhole covers and suspension insulators shall be replaced as needed.

2.4.2. Existing rectifiers will be used. New wires shall be installed from inside the tank to the rectifier and terminated.

3. SUBMITTALS. Contractor shall submit one (1) copy of OSHA certification of personnel performing work and one (1) copy of Confined Space Safety Plan prior to beginning work. Contractor shall submit four (4) hard copies and an electronic copy of the water storage tank report and an Operation and Maintenance (O&M) manual. The report shall include the inspection and testing of installed components with evaluation and recommendations. These

documents shall be submitted to the Contracting Officer no later than two weeks after completion of the work. The report should be submitted in a "Draft" format for review and a final format after all comments from the draft have been incorporated. **Project will not be fully accepted until reports have been reviewed and approved by Base Civil Engineer Squadron.**

5. WORKING HOURS: Normal duty hours at Ellsworth AFB are Monday through Friday, except on Government holidays, 7:00 a.m. to 4:30 p.m. Inform Contracting Officer in writing 72 hours prior to working at times other than normal duty hours.

6. CONTRACTOR QUALIFICATIONS: Contractor shall be experienced in the installation, maintenance, operation, and repair of steel tank cathodic protection systems. Contractor shall have a minimum of three (3) years of proven experience in this area. Contractor must be certified as a Corrosion Specialist accredited by National Association of Corrosion Engineers (NACE) as a senior corrosion technologist, corrosion specialist, or cathodic protection specialist. All workers must be Commercially Certified, and hold a current ID card to provide such proof. Contractor shall submit such certificates, ID cards and experience references for review and approval.

7. COMPLIANCE: Contractor shall comply with OSHA, National Building Codes (IBC and/or NBC) and applicable National Fire Protection Association Codes. Contractor(s) shall comply with the Base Fire Regulations as required under EAFBI 92-1. Contractor(s) shall not utilize explosives or fire in performing work. Contractor shall comply with Welding, Cutting and Brazing requirements in AFOSH Standard 91-5, 1 May 1997. All trades workmanship must comply with applicable federal, industry and local standards and codes.

8. CLEAN UP: After successful completion of all work and tests, and at the end of each workday, Contractor shall clean the area and dispose of debris and trash outside the limits of Government property. Work area and affected areas shall be left in a clean and orderly manner, acceptable to Contracting Officer's Representative. Any damages caused by the contractor to surfaces or structures due to accomplishment of the project shall be repaired to match existing at no cost to the Government. Any damages caused by the contractor to trees, shrubs or surrounding vegetation will be repaired / replaced at no cost to the Government.

9. COMPLIANCE WITH ENVIRONMENTAL LAWS: The contractor shall comply with all applicable federal, state, and local laws, regulations, ordinances, policies, codes and standards related to environmental matters. The contractor shall also comply, and assure that all subcontractors comply, with all applicable specific instructions, policies, or references contained herein. Copies of local policies and procedures can be reviewed at the Base Environmental office, phone 385-2674.

10. GOVERNMENT RESPONSIBILITIES:

10.1.1 The Government will provide escorts and coordinate access to both tank site locations.

10.2.2 The Government will drain both tanks upon coordination with Contractor schedule.

10.2.3 The Government will fill both tanks upon coordination with Contractor schedule.