

ATTACHMENT F.3

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GLENN RESEARCH CENTER
21000 BROOKPARK ROAD
BROOK PARK, OHIO 44135**

STATEMENT OF WORK

For

Plum Brook Backflow Prevention on Water System

**Glenn Research Center
Plum Brook Station**

March 11, 2014

PART 1 SCOPE OF SERVICE

1.01 DESCRIPTION

The two active domestic main water feeds that supply NASA Plum Brook Station are located at the Mason and Fox Road facility entrances outside of the NASA Plum Brook Station Gates. The existing arrangement contains an 8 inch Water Meter, 1 inch Low Flow Water Meter, and a single swing check valve.

The Erie County Department of Environmental Services Backflow Site Survey at the NASA Plumbrook Facility dated 5/30/2013 recommends that NASA pursue the installation of testable double check valves downstream of the water meters to provide proper backflow prevention.



FIGURE 1.0 Mason Road Existing Backflow Arrangement

1.02 SCOPE

- Removal of existing single check valves in both the Mason and Fox Road Domestic Water Mains.
- Re-Arrange piping within meter vaults to accommodate testable lead free double check valves in both the 8" mains and downstream of the 1" low flow meters complying with AWWA C510-92, CSA B64.5
 1. 8" double check valve(s) shall be selected so that they can be installed with adequate clearance within the existing meter vaults. Basis of Design is WATTS 774 Double Check Valve
- Re-connect domestic water piping and Test Backflow preventer(s).
- Pressure leak test all new fittings/weld/flanges installed.
- Provide proper disinfection post re-instatement per AWWA C651 or AWWA C652.

1.03 Assumptions

- The 8" piping is ductile iron.
- Existing Valves and fittings shall be reutilized.

PART 2 DELIVERABLES

2.01 Health and Safety Plans (HASP's)

- Contractor shall submit a HASP to NASA for approval prior to performing any work.

2.02 Submittals

- Contractor shall submit material information to NASA for approval prior to procurement.

2.03 Reports

- Contractor shall provide leak test reports
- Contractor shall provide bacteriological examination results after disinfection and purging of domestic water piping to NASA prior to reinstatement of domestic water to facilities downstream.

PART 3 EXECUTION

3.01 KICKOFF MEETING:

Prior to beginning the project, the initial conference between the Contractor and the NASA Project Team, will take place at the NASA Glenn Research Center approximately one week from the date of the contract award.

3.02 PROJECT MEETINGS AND NOTES:

The Contractor shall be responsible for taking notes at all conferences and meetings. Pertinent items in telephone conversations between the Contractor and NASA Project Team shall be included in these notes. Notes of conferences, meetings, and telephone conversations shall be submitted within five (5) working days of the occurrence. The Contractor shall acknowledge, in the conference notes, transmittal of any material between parties, submit copies of any

correspondence pertinent to the execution of the contract, and provide a brief statement of job progress.

3.03 SCHEDULE:

The Contractor shall provide a preliminary Project Schedule with the proposal indicating, as a minimum, the Planned Start, and Planned Completion dates. Work shall be completed within 120 days after contract award.

3.04 SUBMITTALS

All drawings, computer disks, and other submittal documents submitted by the Contractor for approval along with accompanying transmittal letters shall be sent directly to:

Kevin Stiles
NASA Glenn Research Center
Facilities Division, MS 21-15
21000 Brookpark Road
Cleveland, OH 44135

Each submittal will be reviewed by the NASA Project Team with approval and/or comments and will be returned to the Contractor.

Project Submittals:

The minimum requirements for submittals are as follows:

1. Health and Safety Plan prepared according to Chapter 1 and 1A of Glenn Research Center, Glenn Safety Manual.
2. Materials
3. MSDS Sheets
4. Leak Test Reports
5. Bacteriological examination results after disinfection and purging of domestic water piping.

3.05 ATTACHMENTS:

- Bid Drawing Package.
- Project Specifications