

## Scope of Work:

This work is to include the installation of four (4) new 8" Valves in existing chilled water lines. The existing "Shut-Off / Change-Over" valves are to remain. The New Automatic Valves are to be used when the multiple computer room air conditioning systems at Bldg A49 at the Naval Research Laboratory, Washington, DC are switched from the campus wide chilled water system to the backup chiller plant dedicated for this purpose. The new valves are to be placed in the existing piping system shall have flanged connections. The scope of work is to include but not be limited to valving off the area where the valves will be installed, drain internal water, remove insulation, cut piping, weld in new flanges, install new valves, test for leaks and operation, re-insulate, and prepare for "Control Sub Contractor" to mount and install valve electric valve controller, Temperature sensors, pressure differential sensors and switches, for the purpose of "Automatic Change Over" from the default system providing chilled water to the backup system with specific procedures and notification when this process is required/has taken place. See attached drawings and control sequence.

The existing control Hardware and Software are by Siemens - Beltsville, MD. The bidding contractor shall use this "Sole Source Control Contractor" as a "Subcontractor" for the control work on this project.

The general location for the new valves have been located in the piping schematic, and the specific location may be adjusted due to ease of installation, maintenance, access, etc.

Valves and specifically the sensor shall be installed in a straight section of pipe with five (5) Diameters of pipe size on each side to insure accurate flow characteristics.

## GENERAL CONDITIONS:

1. Unless otherwise specified by the Government, the regular working day shall begin no earlier than 7:00 AM to 4:00 PM (Monday to Friday), except holidays.
2. Store any hazardous material properly and have MSDS in compliance with OSHA Hazard Communication Standard, 29 CFR 1910.
3. The Contractor and his Subcontractor shall comply with 29 CFR 1926, Subpart C, Protective Equipment and 29 CFR 1926m Subpart I. Tools – Hand and Power. For additional information, contact the Safety Office at (202) 767-2232.
4. Have an emergency phone number to call in case of a leak or other emergency;  
(202) 767-3333
5. Document the volume of solid waste disposed or recycled and location. The Contractor and his Subcontractor to recycle all acceptable waste and report recycling statistics to Scott Lonesome (202)-767-4853. This is mandatory under the Environmental Management System of the specification as well as Pollution and Prevention Reporting.
6. Restore site daily and at the completion of work.
7. Provide shop drawings (Outline of work schedule, equipment and order of work) of planned work to NRL for review and approval prior to start of work.
8. Point of Contact: For execution of this contract work, schedule and payment, contact \_\_\_\_\_ The Government's Technical Representative and alternate Point of Contact is \_\_\_\_\_