

As of August 8, 2013  
**ROB ADDITION – Hot Water System Modifications to Bid Documents**

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| <b>Contract Number:</b>                             |         |
| <b>Task Order Number:</b>                           |         |
| <b>VA Project Number:</b>                           | 646-373 |
| <b>Follow-on to Contract and Task Order Number:</b> | N/A     |

**Contracting Officer's Representative (COR).**

|                 |   |
|-----------------|---|
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**Background**

The VA Pittsburgh Healthcare System (VAPHS) has a need to implement a plumbing upgrade project in order to comply with VHA Directive 2009-009 Domestic Hot Water Temperature Limits for Legionella Prevention and Scald Control.

The presence of *Legionella* in the water distribution system of hospitals has been linked to the acquisition of hospital-acquired Legionellosis. Water temperatures exceeding 130 degrees Fahrenheit are necessary in the hot water circulating distribution systems to eliminate presence and growth of Legionella. In order to eliminate the risk of scalding of the patients, staff, employees, and visitors, mixing valves at all fixtures are required to reduce temperature to 120 degrees Fahrenheit or below (depending on patient environment).

**Scope**

This following upgrades / revisions to the Existing Plumbing Related Specifications and Drawings shall be incorporated into your Bid for the "ROB – Addition" Effort.

**Clarification #1:**

Install Thermal Mixing Control for sinks, eyewash stations and slop sinks as shown on the ROB Fixture Schedule Attachment B. This attachment provides the fixture inventory for each room and corresponding valve requirements (Attachment D-Fixture Systems). All mixing valves at sinks referenced in Attachment B must supply 140 degree Fahrenheit water to the faucets and fixtures.

1. Provide and install check valves on hot and cold water supply lines at all locations in Attachment B (Fixture Schedule).
2. Reference Attachment C (Sketches) for typical mixing valve installations.
3. Reference Attachment D (Fixture Systems) for fixture grouping systems as designated in attachment B (Fixture Schedule). NOTE: Whenever 'Powers 215 Faucet' is specified in the Fixture Systems identified in Attachment 'D', the Chicago Faucet Spout (626-FCABCP) shall be used in place of the Powers model, TYPICAL.

4. As referenced in Attachment C (Sketches), a hot water by-pass valve shall be provided and installed at all applicable sink locations. This 3/8" by-pass valve must have a locking device that is key operated for sinks or able to be locked via an existing cabinet door. The by-pass valve is required to facilitate thermal eradication of 160 degree Fahrenheit water to the fixture.
5. By-pass must be installed as close to the thermostatic mixing valve as possible to alleviate "dead leg" problems but permit access and future replacement/maintenance.

**Clarification #2:**

Install eye wash stations where indicated in the Contract Documents.  
Stations must be piped as per Attachment C, 'SK7'

The Contractor shall field verify all eye wash stations provide tepid water. (**Tepid Water:** In previous versions of the ANSI Z358.1 standard, tepid water was mentioned in the Appendix of the standard. Now in the 2009 standard, tepid water requirements have now been moved into the Definitions section and clearly defines a tepid water range of 60°-100°F.)

Thermostatic mixing valve for supplying tepid water to emergency fixtures shall feature internal cold-water bypass system to ensure flow in the event of valve failure or loss of hot water supply. The valve shall be listed to ASSE 1071 and IAPMO UPC, provide precise temperature control over a wide range of flow conditions, and effectively shut down on loss of cold water. The valve shall feature powerful paraffin-based actuation technology and checkstops to prevent cross flow. The valve shall be factory set to 85°F (29°C) with a lockable means of securing the temperature. The Contractor shall verify that the valve is factory set prior to installation. No field modification shall be applied to valve temperature.

All eyewash stations shall comply with the OSHA standards.

**Clarification #3:**

All Above Ground (Interior) Water Piping shall be Copper Tube, ASTM B88, Type K, Typical.

**Clarification #4:**

Per VA Infectious Control Protocols, the use of Flexible Tubing (IE Quick Connects, at Eyewashes, General Fixtures, Etc. is no longer permissible, Typical. Exception permitted for Accessible Shower locations only. All other exceptions would need to be reviewed/pre-approved w/ Infectious Control Team, via the COR.

Substitute Deck Mounted Eye Wash Stations in lieu of Panel Mounted models where use of Alternate Wall Mounted Fixture (See Attachment B) is not possible. In the event that both use of proposed alternate wall mounted fixture OR relocation is infeasible, VA will entertain an alternate Panel Mounted model without Hose.

**Clarification #5:**

All Ball Valves shall be Stainless Steel, Typical.