

223523S01 Domestic Hot Water Recirculation Loop Sensors

INFORMATION:

In the Medical Center facilities, hot water is required for patient care and research activities. To ensure hot water is readily available without significant wait times to all locations on a floor of the facility, hot water recirculation loops should be installed throughout each floor. When faults of plumbing devices like mixing valves, shower valves, etc. occur, there will occasionally be cold to hot water crossovers in the domestic water system, which impacts available hot water to all spaces.

PROCEDURE:

To alert maintenance staff and to assist in troubleshooting of such crossover issues, the requirement is for installation of electronic water temperature sensors on each floor loop or on each wing loop in the case of larger buildings with multiple loops per floor.

The sensors are to be located in both the domestic hot water supply and return lines with the sensors reporting to the Medical Center Tridium Building Automation System. The sensors should be installed where the loop enters and leaves the floor or wing. In addition to the electronic sensors, a temperature gage should be installed adjacent to each of the electronic sensors for use at the site in troubleshooting.

Alarms are to be put on each set of sensors alarming to PPDMC Dispatch. The alarm criteria will be determined relative to each individual installation.