

November 2011

Back²Basics

Solution

Based on Cx-3 ATC/FPT software

Month 2 - Retro-Cx HW Tertiary Pumping TAB

Measurement Point	Criteria	On-Maximum Cooling		Remarks
		Design	Actual	
1 Outlet of Chilled Water Pump	Flow Pressure Temperature	1,560 gpm 120 ft 45°F	1,560 gpm 120 ft 45°F	A. OK per Design B. Pressure Reading is Adequate. No Action Needed. C. Pressure Reading is Excessive. Issue Unscheduled Work Order & Consider Hydraulic Model Study
2 At Outlet of CHWS Balancing Valve	Flow Pressure Temperature	1,560 gpm 115 ft 45°F	1,560 gpm 85 ft 45°F	A. OK per Design B. Pressure Reading is Adequate. No Action Needed C. Balancing Valve Set At 70% is a Concern. Consider Hydraulic Model Study.
3 At furthest UV Terminal Coil Inlet	Flow Pressure Temperature	7.8 gpm 45 ft 45°F	7.8 gpm 20 ft 45°F	A. OK per Design B. Pressure Reading is Adequate. No Action Needed. C. Inlet Pressure Drop is Not Adequate. Issue Unscheduled Preventive Maintenance Work Order to Clean Strainer
4 At Furthest UV Terminal Coil Outlet	Flow Pressure Temperature	7.8 gpm 40 ft 55°F	7.8 gpm 15 ft 55°F	A. OK per Design B. Pressure Drop Reading is Adequate. No Action Needed C. Pressure Reading is Inadequate. Adjust Balancing Valve for Possible Increase in Pressure
5 Outlet of Hot Water Pump	Flow Pressure Temperature	1,200 gpm 90 ft 190°F	1,200 gpm 90 ft 190°F	A. OK per Design B. Pressure Reading is Adequate. No Action Needed C. Issue Unscheduled Work Order & Consider Hydraulic Model Study
6 At Outlet of HWS Balancing Valve	Flow Pressure Temperature	1,200 gpm 85 ft 190°F	1,200 gpm 65 ft 190°F	A. OK per Design B. Pressure Reading is Adequate. No Action Needed C. Balancing Valve Set at 70% Open is a Concern. Consider Hydraulic Model Study
7 At Inlet To EF-1 (Serving UV-1)	Flow Pressure Temperature	600 cfm 1 in. 72°F	0 cfm 0.0 in. 72°F	A. OK per Design B. CFM Reading is Adequate. No Action Needed. C. CFM Reading is Not Adequate. Issue Unscheduled Work Order & Trouble Shoot System
8 At Inlet To EF-Typ1 (Serving Typical UV)	Flow Pressure Temperature	600 cfm 1 in. 72°F	480 cfm 0.7 in. 72°F	A. OK per Design B. CFM Reading is Adequate. No Action Needed. C. CFM Reading is Not Adequate. Issue Unscheduled Work Order & Trouble Shoot System
9 At Inlet To EF-Last (Serving Last UV)	Flow Pressure Temperature	600 cfm 1.25 in. 72°F	0 cfm 0.0 in. 72°F	A. OK per Design B. CFM Reading is Adequate. No Action Needed C. CFM Reading is Not Adequate. Issue Unscheduled Work Order & Trouble Shoot System