Energy Retro-Cx

MONTH 2- The Energy Conservation Opportunity: Primary-Secondary Heating at an Industrial Building Application - Air & Water Readings and Solution Plan

Basic

Back



Measurement Point	Criteria	On-Maximum Cooling		
		Design	Actual	Remarks
1 At Primary Heating Pump P-1 Discharge	Flow Pressure Temperature	20170 GPM 80 Feet 200F	2100 GPM 110 Feet 200F	 A. OK per design (+/- 5%). B. Temperature reading is adequate. No action needed. C. GPM and/or pressure reading is excessive. Consider hydraulic model study.
2 After Pump P-1 Balancing Valve	Flow Pressure Temperature	2070 GPM 79 Feet 200F	2100 GPM 78 Feet 200F	 A. OK per design (+/- 5%). B. Temperature reading is adequate. No action needed. C. GPM and/or pressure reading is excessive. Consider hydraulic model study.
3 At Secondary Heating Pump P-2A Discharge	Flow Pressure Temperature	1070 GPM 180 Feet 200F	1090 GPM 180 Feet 200F	 A. OK per design. B. Temperature reading is adequate. No action needed. C. GPM and/or pressure drop thru balancing valve is excessive. Consider hydraulic model study.
4 After Pump P-2A Balancing Valve	Flow Pressure Temperature	1070 GPM 175 Feet 200F	1090 GPM 50 Feet 200F	A. OK per design. B. Temperature reading is adequate. No action needed. C. GPM and/or pressure reading is excessive. Consider hydraulic model study
5 At Secondary Heating Pump P-2B Inlet	Flow Pressure Temperature	7 GPM 70 Feet 200F	17 GPM 76 Feet 200F	 A. OK per design. B. Temperature reading is adequate. No action needed. C. GPM and/or pressure reading is excessive. Consider hydraulic model study.
6 At Secondary Heating Pump P-2B Discharge	Flow Pressure Temperature	7 GPM 110 Feet 200F	17 GPM 135 Feet 200F	 A. OK per design. B. Temperature reading is adequate. No action needed. C. GPM and/or pressure reading is excessive. Consider hydraulic model study.
7 After Pump P-2B Balancing Valve	Flow Pressure Temperature	7 GPM 105 Feet 200F	17 GPM 90 Feet 200F	 A. OK per design. B. Temperature reading is adequate. No action needed. C. GPM and/or pressure reading is excessive. Consider hydraulic model study.
8 At Secondary Heating Pump P-2C Inlet	Flow Pressure Temperature	310 GPM 70 Feet 200F	330 GPM 72 Feet 200F	 A. OK per design. B. Temperature reading is adequate. No action needed. C. GPM and/or pressure reading is excessive. Consider hydraulic model study.
9 At Secondary Heating Pump P-2C Discharge	Flow Pressure Temperature	310 GPM 190 Feet 200F	330 GPM 190 Feet 200F	 A. OK per design. B. Temperature reading is adequate. No action needed. C. GPM and/or pressure reading is excessive. Consider hydraulic model study.
10 After Pump P-2C Balancing Valve	Flow Pressure Temperature	310 GPM 185 Feet 200F	330 GPM 160 Feet 200F	 A. OK per design. B. Temperature reading is adequate. No action needed. C. GPM and/or pressure reading is excessive. Consider hydraulic model study.
ANSWEPS: To view and download this month's answers visit www.esmagazine.com				

ANSWERS: To view and download this month's answers, visit www.esmagazine.com.