

## Functional Performance Test

**Project Name**

System: **Heating Water System**

<i>Functional Performance Test</i>	<i>Pass</i>	<i>Fail</i>	<i>Remarks</i>
<b>FPT Test Prerequisites</b>	----	----	-----
Point to Point checks completed			
Point calibration completed			
<b>Record System Information Before Testing</b>	----	----	-----
System in Auto			
Record OA-T			_____ °F
Record HW System Enable Setpoint			_____ °F
Record HWS-T			_____ °F
Record HWR-T			_____ °F
Record Active HWS-T Setpoint			_____ °F
Record Pump(s) Operation			HWP-1 _____ / HWP-2 _____
Record Pump(s) Speed			HWP-1 _____% / HWP-2 _____%
Record System Differential Pressure from BAS			_____ PSI
Record System Differential Pressure Setpoint			_____ PSI
Record Operation of BLR-1			BLR-1 _____
Record Operation of BLR-2			BLR-2 _____
Record Operation of BLR-3			BLR-3 _____
<b>Power Fail Restart</b>	----	----	-----
Disable power to the BAS panel			
Disable power to the BMS panel			
Disable power to the HW Pump VFD(s)			
Verify pump rotation as speed decreases			
Restore power to BMS panel			
Restore power to the HW Pump VFD(s)			
Restore power to the BAS panel			
Record Pump(s) Operation			HWP-1 _____ / HWP-2 _____
Record Pump(s) Speed			HWP-1 _____% / HWP-2 _____%
Record Operation of BLR-1			BLR-1 _____
Record Operation of BLR-2			BLR-2 _____
Record Operation of BLR-3			BLR-3 _____

Cx Agent(s): _____	Test Date: _____
<i>Remarks Section at end of document.</i>	

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<i>Functional Performance Test</i>	<i>Pass</i>	<i>Fail</i>	<i>Remarks</i>
<b>Sequence Verification</b>	-----	-----	-----
<b>Pump Rotation and Alarms</b>			
Record Pump Runtime (hours) at BAS			HWP-1 _____ / HWP-2 _____
Record Pump Runtime (hours) Setpoint			_____ Hours
Record Lead Pump			HWP-1 _____ / HWP-2 _____
If Needed, Rotate Lead / Lag so HWP-1 is Lead			
HWP-1 is Enabled			
HWP-1 status is on at BAS			
Disable the VFD for HWP-1			
Record time delay for Alarm			
Verify alarm at BAS			
HWP-2 is Enabled			
HWP-2 status is on at BAS			
Disable the VFD for HWP-2			
Record time delay for Alarm			
Verify Alarm at BAS			
Restore the VFD(s) for HWP-1, & 2			
Reset the BAS Alarm			
Rotate Lead / Lag so HWP-2 is Lead			
HWP-2 is Enabled			
HWP-2 status is on at BAS			
Disable the VFD for HWP-2			
Record time delay for Alarm			
Verify Alarm at BAS			
HWP-1 is Enabled			
HWP-1 status is on at BAS			
Disable the VFD for HWP-1			
Record time delay for Alarm			
Verify Alarm at BAS			
Reset the BAS Alarm			
Restore Lead / Lag Pump Rotation			
<b>Boiler Staging and Alarms</b>			
Verify Boiler Staging via BMS			
Disable BLR-1-3			
Verify BMS Alarm at BAS			

Cx Agent(s): \_\_\_\_\_ Test Date: \_\_\_\_\_

*Remarks Section at end of document.*



