

## Functional Performance Test

**Project Name**

**System: Cooling 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			
System Time Schedule Enabled			
Record Time Schedule Operation			_____ AM to _____ PM
Record OA-T			_____ °F
Record CHW System Enable Setpoint			_____ °F
Record CHWS-T			_____ °F
Record CHWR-T			_____ °F
Record Active CHWS-T Setpoint			_____ °F
Record Pump(s) Operation			CWP-1 _____ / CWP-2 _____
Record Pump(s) Speed			CWP-1 ____% / CWP-2 ____%
Record System Differential Pressure from BAS			_____ PSI
Record System Differential Pressure Setpoint			_____ PSI
Record Operation of CHLR-1			CHLR-1 _____
Record Operation of CHLR-2			CHLR-2 _____
<b>Power Fail Restart</b>	----	----	-----
Disable power to the BAS panel			
Disable power to the Chiller panel(s)			
Disable power to the CHW Pump VFD(s)			
Verify pump rotation as speed decreases			
Restore power to Chiller panel(s)			
Restore power to the CHW Pump VFD(s)			
Restore power to the BAS panel			
Record Pump(s) Operation			CWP-1 _____ / CWP-2 _____
Record Pump(s) Speed			CWP-1 ____% / CWP-2 ____%
Record Operation of CHLR-1			CHLR-1 _____
Record Operation of CHLR-2			CHLR-2 _____

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

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System: **Cooling Water System**

<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			CWP-1 _____ / CWP-2 _____
Record Pump Runtime (hours) Setpoint			CWP-1 _____ / CWP-2 _____
Record Lead Pump			CWP-1 _____ / CWP-2 _____
If Needed, Rotate Lead / Lag so CWP-1 is Lead			
CWP-1 is Enabled			
CWP-1 status is on at BAS			
Disable the VFD for CWP-1			
Record time delay for Alarm			
Verify alarm at BAS			
CWP-2 is Enabled			
CWP-2 status is on at BAS			
Disable the VFD for CWP-2			
Record time delay for Alarm			
Verify Alarm at BAS			
Restore the VFD(s) for CWP-1, & 2			
Reset the BAS Alarm			
Rotate Lead / Lag so CWP-2 is Lead			
CWP-2 is Enabled			
CWP-2 status is on at BAS			
Disable the VFD for CWP-2			
Record time delay for Alarm			
Verify Alarm at BAS			
CWP-1 is Enabled			
CWP-1 status is on at BAS			
Disable the VFD for CWP-1			
Record time delay for Alarm			
Verify Alarm at BAS			
Reset the BAS Alarm			
Restore Lead / Lag Pump Rotation			
<b>Chiller Staging and Alarm</b>			
Record Chiller Runtime (hours) at BAS			CHLR-1 _____ / CHLR-2 _____
Record Chiller Runtime (hours) Setpoint			_____ Hours
Record Lead Chiller			CHLR-1 _____ / CHLR-2 _____

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

*Remarks Section at end of document.*



