

CONTROL LOGIC

POINTS LIST

POINT NAME	POINT DESCRIPTOR	POINT TYPE				REMARKS
		DI	AI	DO	AO	
Hwx.DP	Differential Pressure	1				
Hwx.HWS-T	HWS Temperature	1				
Hwx.HWS-P	HWS Pressure	1				
Hwx.HWS-R-T	Remote HWS Temp	1				
Hwx.HWR-T	HWR Temperature	1				
Hwx.PMP1-HW-ALARM	P1 Alarm	1				(may be network pt)
Hwx.PMP1-HW-ST5	P1 Status	1				(may be network pt)
Hwx.PMP1-HW-FDBK	P1 Feedback	1				(may be network pt)
Hwx.PMP1-HW-C	P1 Start/Stop			1	1	
Hwx.PMP2-HW-ALARM	P2 Alarm	1				(may be network pt)
Hwx.PMP2-HW-ST5	P2 Status	1				(may be network pt)
Hwx.PMP2-HW-FDBK	P2 Feedback	1				(may be network pt)
Hwx.PMP2-HW-C	P2 Start/Stop			1	1	
Hwx.PMP2-HW-SPD-0	P2 Speed					
Hwx.PMP3-HW-ST5	P3 Status	1				
Hwx.PMP3-HW-C	P3 Start/Stop			1	1	
Hwx.PMP4-HW-ST5	P4 Status	1				
Hwx.PMP4-HW-C	P4 Start/Stop			1	1	
Hwx.RADW-S-T	FT HWS Temperature	1				
Hwx.RADW-S-P	FT HWS Pressure	1				
Hwx.RADW-R-T	FT HWR Temperature	1				
Hwx.RADW-V-C	Fin Tube HW Valve				1	
Hwx.PHWS-T	Pri HWST	1				
Hwx.B1-HWS-T	B1 HWST	1				(may be network pt)
Hwx.B2-HWS-T	B2 HWST	1				(may be network pt)
Hwx.B1-ALA	B1 Alarm	1				(may be network pt)
Hwx.B1-ST5	B1 Status	1				(may be network pt)
Hwx.ENA	Boilers Enable				1	(may be network pt)
Hwx.RST	Boilers Setpoint				1	(may be network pt)
Hwx.B2-ALA	B2 Alarm	1				(may be network pt)
Hwx.B2-ST5	B2 Status	1				(may be network pt)
Hwx.HW-S-P	HWS Pressure		1			
Hwx.HW-R-P	HWR Pressure		1			
TOTALS		10	16	5	4	

NETWORK INTERFACE POINT LIST

POINT	POINT DESCRIPTOR	POINT TYPE		UNITS
		READ	WRITE	
(Variable Speed/Freq Drives)				
VSD.SP	Speed	Y		RPM
VSD.FREQ	Output Frequency	Y		Hz
VSD.AMPS	Current	Y		A
VSD.TORQ	Torque	Y		% of motor
VSD.PWR	Power	Y		kW
VSD.DCBV	DC Bus Voltage	Y		V
VSD.OV	Output Voltage	Y		V
VSD.ACC	Accelerate	Y	Y	Hz per second
VSD.DEC	Decelerate	Y	Y	Hz per second
VSD.LOCAL	Panel Local	Y		ON/OFF
VSD.FAULT	Fault Status	Y		Mfg Code
VSD.DRV	Drive Status	Y		Mfg Code
VSD.KWHR	Kilowatt Hours	Y		kWh

LOGIC VARIABLES

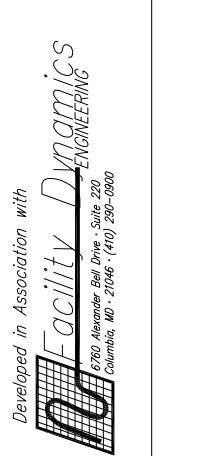
BINARY	ANALOG	DESCRIPTION	#
[Px]		ON WHEN PUMP Px (Py) IS COMMANDED TO RUN	7
[PxA]		ON WHEN PUMP Px IS IN ALARM	6
[PxPF]		ON WHEN PUMP Px (Py) STATUS IS PROVEN	6
[Sysgo]		ON WHEN SYSTEM ENERGIZED	6
[HTRg]		VARIABLE VALUE PERCENTAGE OF TOTAL HEAT REQUESTS RECEIVED	3
[OAT]		VARIABLE VALUE OF OUTSIDE AIR TEMPERATURE	3
[PSPD]		VARIABLE CALCULATED VALUE OF PUMP VFD COMMANDED SPEED	2
[PxRT]		VARIABLE VALUE OF CUMULATIVE PUMP Px (Py) RUNTIME (HRS)	6

UNIVERSITY OF VIRGINIA FACILITIES MANAGEMENT

Eng	HJN
Drawn	HJN
Chkd	---
Appd	---
Issued	8/4/11
Job No.	10080
Scale	N/A
Proj Code	

STANDARD

BOILER HOT WATER SYSTEM (LOGIC)	
21 OF 30 SHEET NUMBER	
C-3.0b	
DWG NUMBER	



UNIVERSITY OF VIRGINIA FACILITIES MANAGEMENT

HVAC CONTROLS STANDARDS

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 Drawn HJN
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