

NCE CONTROLLER - FIELD CHECKOUT										FILE NAME:	
JOB NAME: Gleen Landing School				9N30-0131		NAE#:		REF DWG			
CONTRACT NO:				Boiler Room		MSTP TRUNK:		No.			
LOCATION:						MSTP ADDR:		4		BACNET ADDR: 5004	
CHECKOUT INFORMATION:											
HDW POINT	SYS/OBJ NAME	INTERM. DEVICE TYPE	CHK	FIELD DEVICE TYPE	CHK	LOOP CHECK	SET POINT	PROP BAND	REMARKS		
UI IN-1	Outside Air Temp								Note 5 & 32		
UI IN-2	Zone 1 Hot Water Supply Temp (East Pumps) (Pump 4A & B)			TE-631AM-2	X				Note 7 & 33		
UI IN-3	Zone 3 Hot Water Supply Temp (Pump 2A & B)			TE-631AM-2	X				Note 8 & 34		
UI IN-4	Zone 2 Hot Water Supply Temp (West Pumps) (Pump 3A & B)			TE-631AM-2	X				Note 9 & 35		
UI IN-5	Zone 1 Hot Water Return Temp (East Pumps) (Pump 4A & B)			TE-631AM-2	X				Note 10 & 36		
UI IN-6	Zone 3 Hot Water Return Temp (Pump 2A & B)			TE-631AM-2	X				Note 11 & 37		
UI IN-7	Zone 2 Hot Water Return Temp (West Pumps) (Pump 3A & B)			TE-631AM-2	X				Note 12 & 38		
UI IN-8	Boiler Pump 1 Status			Exsiting CT	X				Note 13 & 25		
UI IN-9	Boiler Pump 2 Status			Exsiting CT	X				Note 14 & 26		
UI IN-10											
BI IN-11	Boiler 1 Status			Exsiting CT	X				Note 15		
BI IN-12	Boiler 2 Status			Exsiting CT	X				Note 16		
BI IN-13	Combustion Damper 1 End Switch								Note 6		
BI IN-14											
BI IN-15	Hot Water Pump 2A Status			Hawkeyes 800	X				Note 1 & 28		
BI IN-16	Hot Water Pump 2B Status			Hawkeyes 800	X				Note 2 & 29		
BI IN-17	Hot Water Pump 3A Status			Hawkeyes 800	X				Note 3 & 30		
BI IN-18	Hot Water Pump 3B Status			Hawkeyes 800	X				Note 4 & 31		
BO OUT-1	Boiler 1 Enable	Rib Relay	X						Note 15		
BO OUT-2	Boiler 2 Enable	Rib Relay	X						Note 16		
BO OUT-3	Combustion Damper 1 Command			M9220-BGC-3	X				Note 6		
BO OUT-4											
BO OUT-5	Hot Water Pump 2A Command	Rib Relay	X						Note 1 & 28		
BO OUT-6	Hot Water Pump 2B Command	Rib Relay	X						Note 2 & 29		
BO OUT-7	Hot Water Pump 3A Command	Rib Relay	X						Note 3 & 30		
CO OUT-8	Hot Water Pump 3B Command	Rib Relay	X						Note 4 & 31		
CO OUT-9	Boiler Pump 1 Command	Rib Relay	X						Note 13 & 25		
CO OUT-10	Boiler Pump 2 Command	Rib Relay	X						Note 14 & 26		
CO OUT-11	Zone 2 Hot Water Pump Bypass								Note 17		
AO OUT-12	Boiler 1 Setpoint Output								Note 18 & 27		
AO OUT-13	Zone 1 Mixing Valve Output								Note 19 & 22		
AO OUT-14	Zone 3 Mixing Valve Output								Note 20 & 23		
AO OUT-15	Zone 2 Mixing Valve Output								Note 21 & 24		
() SYSTEM COMPLETELY FUNCTIONING ON:							(DATE)				
() POINTS SOFTWARE MAPPED ON:							(DATE)				
TIME SPENT COMMISSIONING SYSTEM:											
NOTES:											
1 Override pump command ON. Status read ON in CCT. Override Output to 50%. Read 30HZ on the VFD display. Override the output to 100%. Read 60HZ on the VFD display. Released the override. HJMcC - 12/18/19											
2 Override pump command ON. Status read ON in CCT. Override Output to 50%. Read 30HZ on the VFD display. Override the output to 100%. Read 60HZ on the VFD display. Released the override. HJMcC - 12/18/19											
3 Override pump command ON. Status read ON in CCT. Override Output to 50%. Read 30HZ on the VFD display. Override the output to 100%. Read 60HZ on the VFD display. Released the override. HJMcC - 12/18/19											
4 Override pump command ON. Status read ON in CCT. Override Output to 50%. Read 30HZ on the VFD display. Override the output to 100%. Read 60HZ on the VFD display. Released the override. HJMcC - 12/18/19											
5 Reading 41degs. Checked with weather on phone. Vineland was showing 43degs. HJMcC - 12/18/19											
6 Override command to Open. Saw dampers open. Read Open in CCT. Released override. Dampers Closed. Saw dampers Close. Read Colsed in CCT. HJMcC - 1/2/20 & 3/11/20											
7 Opened wire at device to test. Read ??? in CCT. Put wire back together. Read 165degs in CCT- HJMcC - 1/2/20											
8 Opened wire at device to test. Read ??? in CCT. Put wire back together. Read 161degs in CCT- HJMcC - 1/2/20											
9 Opened wire at device to test. Read ??? in CCT. Put wire back together. Read 160degs in CCT- HJMcC - 1/2/20											
10 Opened wire at device to test. Read ??? in CCT. Put wire back together. Read 148degs in CCT- HJMcC - 1/2/20											
11 Opened wire at device to test. Read ??? in CCT. Put wire back together. Read 144degs in CCT- HJMcC - 1/2/20											
12 Opened wire at device to test. Read ??? in CCT. Put wire back together. Read 144degs in CCT- HJMcC - 1/2/20											
13 Override command ON. Heard pump motor start. Read ON in CCT. Released the override. Heard pump motor go OFF. Read OFF in CCT- HJMcC - 1/2/20											
14 Override command ON. Heard pump motor start. Read ON in CCT. Released the override. Heard pump motor go OFF. Read OFF in CCT- HJMcC - 1/2/20											
15 Override command ON. Heard boiler startup. Read ON for boiler status in CCT. Released override. Heard boiler shut OFF. Read OFF for boiler status in CCT. HJMcC - 1/2/20 & 3/11/20											
16 Override command ON. Heard boiler startup. Read ON for boiler status in CCT. Released override. Heard boiler shut OFF. Read OFF for boiler status in CCT. HJMcC - 1/2/20 & 3/11/20											
17 Actuator is pneumatic. Not sure if it's going to be changed. Took wires off controller. Tucked wires in 1900 box by actuator. HJMcC 1/3/20 & 3/11/20											
18 Read 133.8degs on network inputs. Read 134 on the display of the boiler. Chnaged input to 139. Read 139 on display of the boiler. HJMcC 1/3/20											
19 Override output 0% - 50% - 100%. Saw actuator move. Zone temperature didn't move. Found bypass valve opened. Closed bypass. Stroked actuator. Saw temperature go down											
Open actuator. Saw temperature go up. Also found Zone 1 & 3 mixing valve needed to be switched. HJMcC - 1/3/20											
20 Override output 0% - 50% - 100%. Saw actuator move. Zone temperature didn't move. Found bypass valve opened. Closed bypass. Stroked actuator. Saw temperature go down											
Open actuator. Saw temperature go up. Also found Zone 1 & 3 mixing valve needed to be switched. HJMcC - 1/3/20											
21 Override output 0% - 50% - 100%. Saw actuator move. Zone temperature didn't move. Found bypass valve opened. Closed bypass. Stroked actuator. Saw temperature go down											
Open actuator. Saw temperature go up. HJMcC - 1/3/20											
22 Override output 0% - 50% - 100%. Saw actuator move. HJMcC - 3/11/20											
23 Override output 0% - 50% - 100%. Saw actuator move. HJMcC - 3/11/20											
24 Override output 0% - 50% - 100%. Saw actuator move. HJMcC - 3/11/20											
25 On a call for the boiler. The pump Rib Relay would energized. The pump would go ON. Read ON for status in CCT.- HJMcC - 3/11/20											
26 On a call for the boiler. The pump Rib Relay would energized. The pump would go ON. Read ON for status in CCT.- HJMcC - 3/11/20											
27 Setpoint was at 130degs. Read 129degs on the boiler display. Override output to 160degs. Read 159degs on the boiler display. HJMcC - 3/11/20											
28 Override pump command ON. Status read ON in CCT. HJMcC - 3/11/20											
29 Override pump command ON. Status read ON in CCT. HJMcC - 3/11/20											
30 Override pump command ON. Status read ON in CCT. HJMcC - 3/11/20											
31 Override pump command ON. Status read ON in CCT. HJMcC - 3/11/20											
32 Read 56degs in CCT. Checked phone weather. Read 59degs. HJMcC - 3/11/20											
33 Setpoint is 122degs. Read 122degs in CCT. Read 121 on the boiler display. HJMcC - 3/11/20											
34 Setpoint is 122degs. Read 122degs in CCT. Read 121 on the boiler display. HJMcC - 3/11/20											
35 Setpoint is 122degs. Read 122degs in CCT. Read 121 on the boiler display. HJMcC - 3/11/20											
36 Read 117degs in CCT. - HJMcC - 3/11/20											
37 Read 117degs in CCT. - HJMcC - 3/11/20											
38 Read 121degs in CCT. - HJMcC - 3/11/20											
39 Override the 3 supply water temps to 50degs. Setpoint was 130degs. Changed the Timer Mode from 20mins to 5mins. Waited 5Mins. Boiler-2 pump-2 came on. Then Boiler-2 came. Ran up to 170degs water and shut OFF. I released all overrides. Pump-2 and Boiler-2 shut OFF. HJMcC - 3/11/20											
SIGNATURES:											
DATE:											

IOM CONTROLLER - FIELD CHECKOUT										FILE NAME:
JOB NAME: Gleen Landing School			9N30-0131		NAE#:			REF DWG		
CONTRACT NO:			Boiler Room		MSTP TRUNK:			No.		
LOCATION:					MSTP ADDR:			BACNET ADDR:		
CHECKOUT INFORMATION:										
HDW POINT	SYS/OBJ NAME	INTERM. DEVICE TYPE	CHK	FIELD DEVICE TYPE	CHK	LOOP CHECK	SET POINT	PROP BAND	REMARKS	
UI IN-1	Boiler 1 Alarm								Note 9	
UI IN-2	Boiler 2 Alarm								Note 9	
UI IN-3	Pump 2 A & B Differenyal Pressure			Exsiting Device PR-282-4-4-B-1-2-B	X				Note 3 & 6 & 12	
UI IN-4	Pump 3 A & B Differenyal Pressure			Exsiting Device PR-282-4-4-B-1-2-B	X				Note 4 & 7 & 13	
UI IN-5	Pump 4 A & B Differenyal Pressure			Exsiting Device PR-282-4-4-B-1-2-B	X				Note 5 & 8 & 14	
UI IN-6										
BI IN-7	Hot Water Pump 4A Status			Hawkeye 800	X				Note 2 & 10	
BI IN-8	Hot Water Pump 4B Status			Hawkeye 800	X				Note 1 & 11	
BO OUT-1	Hot Water Pump 4A Command	Rib Relay	X						Note 2 & 10	
BO OUT-2	Hot Water Pump 4B Command	Rib Relay	X						Note 1 & 11	
BO OUT-3										
CO OUT-4										
CO OUT-5										
CO OUT-6										
CO OUT-7										
AO OUT-1	Hot Water Pump 4A Output			Danfoss VFD	X				Note 2 & 10	
AO OUT-2	Hot Water Pump 4B Output			Danfoss VFD	X				Note 1 & 11	
() SYSTEM COMPLETELY FUNCTIONING ON:										(DATE)
() SOFTWARE FILES SAVED ON:										(DATE)
() POINTS SOFTWARE MAPPED ON:										(DATE)
TIME SPENT COMMISSIONING SYSTEM:										
NOTES:										
1 VFD disconnect switch is OFF. Was told bearing are going on the pump. HJMcC - 12/18/19										
2 Override pump command ON. Status read ON in CCT. Override Output to 50%. Read 30HZ on the VFD display. Override the output to 100%. Read 60HZ on the VFD display. Released the override. HJMcC - 12/18/19										
3 Added point to program. Traced wires. Added to IOM. Read 22PSI in CCT. Went to device. Took wire off of the device to test Read ??? In CCT. Put wire back on device. Read 22PSI. HJMcC - 1/2/20										
4 Added point to program. Traced wires. Added to IOM. Read 14PSI in CCT. Went to device. Took wire off of the device to test Read ??? In CCT. Put wire back on device. Read 14PSI. HJMcC - 1/2/20										
5 Added point to program. Traced wires. Added to IOM. Read 17PSI in CCT. Went to device. Took wire off of the device to test Read ??? In CCT. Put wire back on device. Read 17PSI. HJMcC - 1/2/20										
6 Override output 25%-Read 6.1PSI -50%-Read 11.2PSI -75%-Read 21.3PSI - 100%-Read 36PSI in CCT. HJMcC - 1/2/20										
7 Override output 25%-Read 3.3PSI -50%-Read 6.7PSI -75%-Read 13.8PSI- 100%-Read 26.4PSI in CCT. HJMcC - 1/2/20										
8 Override output 25%-Read 6.4PSI -50%-Read 9.2PSI -75%-Read 14.8PSI - 100%-Read 21PSI in CCT. HJMcC - 1/2/20										
9 Not sure of how to test. HJMcC - 1/3/20 & 3/11/20										
10 Override pump command ON. Status read ON in CCT. Override Output to 75%. Read 45HZ on the VFD display. HJMcC - 3/11/20										
11 Override pump command ON. Status read ON in CCT. Override Output to 75%. Read 45HZ on the VFD display. HJMcC - 3/11/20										
12 With a set point of 22PSI. Pump-2A commanded ON. Status read ON in CCT. An output of 73%. Read 22PSI-DP in CCT. HJMcC - 3/11/20										
13 With a set point of 10PSI. Pump-3A commanded ON. Status read ON in CCT. An output of 90%. Read 9.5PSI-DP in CCT. HJMcC - 3/11/20										
14 With a set point of 16PSI. Pump-4B commanded ON. Status read ON in CCT. An output of 78%. Read 16PSI-DP in CCT. HJMcC - 3/11/20										
SIGNATURES:										
DATE:										

IOM CONTROL PANEL - FIELD CHECKOUT						FILE NAME:			
JOB NAME: Gleen Landing School			NAE#:		REF DWG				
CONTRACT NO: 9N30-0131			MSTP TRUNK:		No.				
LOCATION: Boiler Room			MSTP ADDR:		BACNET ADDR:				
CHECKOUT INFORMATION:									
HDW POINT	SYS/OBJ NAME	INTERM. DEVICE		FIELD DEVICE		LOOP	SET POINT	PROP BAND	REMARKS
		TYPE	CHK	TYPE	CHK	CHECK			
UI IN-1									
UI IN-2									
UI IN-3									
UI IN-4									
UI IN-5									
UI IN-6									
BI IN-7									
BI IN-8									
BO OUT-1									
BO OUT-2									
BO OUT-3									
CO OUT-4									
CO OUT-5									
CO OUT-6	Hot Water Pump 2A Output			Danfoss VFD (Existing)	X				Note 1 & 5
CO OUT-7	Hot Water Pump 2B Output			Danfoss VFD (Existing)	X				Note 2 & 6
AO OUT-1	Hot Water Pump 3A Output			Danfoss VFD (Existing)	X				Note 3 & 7
AO OUT-2	Hot Water Pump 3B Output			Danfoss VFD (Existing)	X				Note 4 & 8
() SYSTEM COMPLETELY FUNCTIONING ON:							(DATE)		
() SOFTWARE FILES SAVED ON:							(DATE)		
() POINTS SOFTWARE MAPPED ON:							(DATE)		
TIME SPENT COMMISSIONING SYSTEM:									
NOTES:									
1 Override pump command ON. Status read ON in CCT. Override Output to 50%. Read 30HZ on the VFD display. Override the output to 100%. Read 60HZ on the VFD display. Released the override. HJMcC - 12/18/19									
2 Override pump command ON. Status read ON in CCT. Override Output to 50%. Read 30HZ on the VFD display. Override the output to 100%. Read 60HZ on the VFD display. Released the override. HJMcC - 12/18/19									
3 Override pump command ON. Status read ON in CCT. Override Output to 50%. Read 30HZ on the VFD display. Override the output to 100%. Read 60HZ on the VFD display. Released the override. HJMcC - 12/18/19									
4 Override pump command ON. Status read ON in CCT. Override Output to 50%. Read 30HZ on the VFD display. Override the output to 100%. Read 60HZ on the VFD display. Released the override. HJMcC - 12/18/19									
5 Override pump command ON. Status read ON in CCT. Override Output to 75%. Read 45HZ on the VFD display. HJMcC - 3/11/20									
6 Override pump command ON. Status read ON in CCT. Override Output to 75%. Read 45HZ on the VFD display. HJMcC - 3/11/20									
7 Override pump command ON. Status read ON in CCT. Override Output to 75%. Read 45HZ on the VFD display. HJMcC - 3/11/20									
8 Override pump command ON. Status read ON in CCT. Override Output to 75%. Read 45HZ on the VFD display. HJMcC - 3/11/20									
SIGNATURES:							DATE:		