



RCE #12-4181
Centennial School District
William Tennent HS, Region 3 ES, Region 1 ES, Region 2 ES

October 26, 2012

Commissioning Progress Report

The Commissioning Technician received access to the BAS front-end and performed functional testing on the cooling side of the heat pumps in the completed buildings (WTHS, Reg.3ES). A commissioning Action List was generated for each school based on perceived deficiencies with the heat pumps, and the Action Lists were distributed to the Project Managers for appropriate resolution. The partially-completed functional test forms for each school are attached. Note that the testing is based on a 30% sampling rate.

The Commissioning Technician was on-site (10/17/12 – 10/18/12) at the Region 1 Elementary School to witness the training for the Evaporative Coolers and the Siemens ATC system.

More functional testing will take place as the heating season comes into effect. At the High School, Region 3 Elementary School, and Region 1 Elementary School, the equipment to be tested includes: the heating side of the heat pumps, roof-top units, unitary heaters, and the heating side of the condenser water loop. Functional testing will proceed at Region 2 Elementary School once it is completed with equipment started and balanced.

Commissioning Action List

#	Unit	Location	Trade	Problem	Action	Date	
						Added	Fixed
1	HP-6	D120	HVAC	Unit tested for cooling mode and compressor was enabled by BAS. Supply air temperature remained at 75°F and LWT did not increase.	Check heat pump cooling operation.	9/7/12	
2	HP-4	E123	HVAC/ATC	System Enable is Off	Investigate the system enable point.	9/7/12	10/25/12
3	HP-1	A200J	HVAC/ATC	Unit tested for cooling mode: setpoint was adjusted down to 67°F and compressor was energized. Supply air temperature shows -60.2°F and LWT is also -60.2°F prior to test and no change after setpoint adjustment.	Check temperature sensor.	9/7/12	10/1/12
4	HP-15	A203A	HVAC	SA temp @ 85.2°F. Setpoint lowered to 67°F but no change in SA temp.	Check heat pump cooling operation.	9/7/12	10/25/12
5	HP-17	A223	HVAC/ATC	LWT sensor displaying 231.4°F.	Fix/adjust temperature sensor.	9/7/12	
6	HP-1	A200F	HVAC	Unit tested for cooling mode and compressor was enabled by BAS. Supply air temperature did not drop below 63°F and LWT did not significantly increase.	Check heat pump cooling operation.	10/25/12	
7	HP-21	D201 Nor	HVAC	Unit tested for cooling mode and compressor was enabled by BAS. Supply air temperature did not drop below 65°F although LWT did increase.	Check heat pump cooling operation.	10/25/12	
8	HP-21	D201 Sou	HVAC	Unit tested for cooling mode and compressor was enabled by BAS. Supply air temperature did not drop below 64°F and LWT did not significantly increase.	Check heat pump cooling operation.	10/25/12	
9	HP-17	C201A	HVAC	Unit tested for cooling mode and compressor was enabled by BAS. Supply air temperature remained at 72°F and LWT did not significantly increase.	Check heat pump cooling operation.	10/25/12	
10	BAS	Areas E,F	ATC	Units in Areas E and F frequently display "Cab Error". Unit interface is disrupted.	Check branch controllers and boards for connections.	10/25/12	

Commissioning Action List

#	Unit	Location	Trade	Problem	Action	Date	
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1	ERU-4	Roof	ATC	Unit is not listed on the BAS Graphics page.	Add unit to graphics.	10/24/12	
2	MAU-1	Roof	ATC	Unit is not listed on the BAS Graphics page.	Add unit to graphics.	10/24/12	
3	HP-1	B014	ATC/HVAC	BAS displays LWT= -60.2°F	Fix/adjust sensor.	10/24/12	
4	HP-7	A125	HVAC	BAS displays both compressors commanded 'ON', but LWT did not increase and SAT did not decrease when the setpoint was below space temperature.	Check heat pump operation.	10/24/12	
5	HP-7	A126	HVAC	BAS displays both compressors commanded 'ON', but LWT did not increase and SAT did not decrease when the setpoint was below space temperature.	Check heat pump operation.	10/24/12	
6	HP-7	B114	HVAC	BAS displays both compressors commanded 'ON', but LWT did not increase and SAT did not decrease when the setpoint was below space temperature.	Check heat pump operation.	10/24/12	
7	HP-20	C111/112	HVAC	BAS displays both compressors commanded 'ON', but LWT did not increase and SAT did not decrease when the setpoint was below space temperature.	Check heat pump operation.	10/24/12	
8	EF-4 & -5	Roof	ATC	Unit is not listed on the BAS Graphics page.	Add unit to graphics.	10/24/12	
9	EF-6	D111	ATC	Unit is not listed on the BAS Graphics page.	Add unit to graphics.	10/24/12	