Prefunctional Checklist

PC	_ BOILER #'s		
Associa	ted checklists: Boile	er, Heating Water Piping, HW Pump	os
1. Submittal / Approva	als		
checklist items are complete a marked below, respective to es subject to an attached list of or	nd have been checked of ach responsible contract atstanding items yet to anding areas. None of the	al to them are complete and ready for for only by parties having direct knowleter. This prefunctional checklist is subbe completed. A Statement of Correctine outstanding items preclude safe and	edge of the event, as mitted for approval, ion will be submitted
Mechanical Contractor	Date	Controls Contractor	Date
Electrical Contractor	Date	Sheet Metal Contractor	Date
TAB Contractor	Date	General Contractor	
 subcontractors are completed "Contr." column or abbrevial completion of this item. A/E contractor, EC = electrical contractor, TAB = test and be 	sibility for sections of the d and checked off. tions in brackets to the right architect/engineer, Al contractor, GC = general calance contractor, =	checklist shall be responsible to see that clean character responsible to see that cle	nsible to verify gent, CC = controls SC = sheet metal
Commissioning Agent	Date	Owner's Representative	Date
Notes:			

2. Requested documentation submitted

Check if Okay. Enter comment or note number if deficient.

Check	Equip Tag->			Contr.
Manufacturer's cut sheets				
Performance data (fan curves, coil data, etc.)				
Installation and startup manual and plan				
Sequences and control strategies				
O&M manuals				

•	Documentation complete as per contract documents	_ <i>YE</i> S	NO
3.	Model verification	[Contr =]

1 = as specified, 2 = as submitted, 3 = as installed. Check if Okay. Enter note number if deficient.

Faulin Too			-	
Equip Tag	>			
	1			
Manuf.	2			
	3			
	1			
Model	2			
	3			
Serial #	3			
	1			
Capacity	2			
	3			
	1			
Volts/Ph/A	2			
	3			
	1			
	2			
	3			

• The equipment installed matches the specifications for given trade YES ____ NO

4. Physical Installation Checks

Check if Okay. Enter comment or note number if deficient.

Check	Equip Tag->			Contr.
General Installation				•
General appearance good, no apparent damage				
Site sufficiently clean for testing				
Equipment labels affixed				
Tube pulling, and access door space adequate				
Required seismic restraints in place				
Flue completely installed and sloped properly				
Combustion air supply complete				
System filled				
Pressure gages installed				

Notes:

BOILER PREFUNCTIONAL CHECKLIST

PC-____

Check if Okay. Enter comment or note number if deficient.

Check E	quip Tag->	ск іг Окау			Contr.
Thermometers installed					
Pressure gages installed					
P/T plugs installed as per drawings					
Multiple boiler interlocks completed					
Piping (Immediately around unit. Full piping in HW Pip Checklist.)	ing	,			l
Gas piping installed and tested (supply is at proper pres	sure)				
Hydronic piping complete, including blowdown system, r water piping and safety reliefs	nakeup				
Hydronic system flushing complete and strainers cleane	d				
Isolation valves and balancing valves installed					
Pipe fittings and accessories complete					
Test ports installed near all control sensors and per spec	С				
Flow switch installed as required					
Flow meters installed as required					
Piping type and flow direction labeled on piping					
Chemical treatment system or plan installed					
ASME pressue vessel data sheet or certification tag posinspection complete for each expansion tank	ted and				
Expansion tanks verified to not be air bound and system full of water	completely				
Air vents and bleeds at high points of systems functional	I				
Electrical and Controls					
Power to unit and disconnect installed					
All electrical components grounded					
Sensors calibrated (see below)					
Control system interlocks hooked up and functional					
All control devices, pneumatic tubing and wiring complet	te				
Motorized valves, dampers and float switches functional					
Fire and smoke sensing components functional					
Final					
Startup report completed with this checklist attached					
Startup report includes written certification from boiler m that all specified features, controls and safeties have be and are functioning properly and that the installation and comply with the manufacturer's recommendations.	en installed				

Notes:

BOILER PREFUNCTIONAL CHECKLIST

P	C-		

Check if Okay. Enter comment or note number if deficient.

Check	Equip Tag->			Contr.
Safeties installed and safe operating ranges for this provided to the commissioning agent	equipment			
Heating water piping and pumps prefunctional check	lists completed			

• The checklist items of Part 4 are all successfully completed for given trade. YES ____ NO

Operational Checks (These augment mfr's list. This is not the functional performance testing.) Check if Okay. Enter comment or note number if deficient.

Check	Equip Tag->				Contr.
Boiler safeties energized and tested					
Startup report includes optimal and actual perostack temperature; combustion efficiency	cent CO ₂ , CO, O ₂ ,				
Specified sequences of operation and operatir been implemented with all variations documen					
Specified point-to-point checks have been con documentation record submitted for this system					
		•			

•	The checklist items of Part 5 are all successfully completed for given trade.	YES	NO
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Notes:

						BOI	LER PR	EFUNCT	IONAL CH	HECKLIST	Γ
										PC	
All field-inst valves) on th Test Procedu	alled ter is piece res docu	nperature, of equipm iment. All	ent shall be I test instru	midity, CO calibrated ments shal	O, CO ₂ and d using the Il have had	pressure sensors methods and tole a certified calibration provided	erances g ation wit	iven in the hin the las	Calibratio t 12 months	n and Leal	nd k-by
Sensor or Actuator & Location	Loc- ation OK	1st Gage or BAS Value	Instr. Meas'd Value	Final Gage or BAS Value	Pass Y/N?	Sensor & Location	Loc- ation OK	1st Gage or BAS Value	Instr. Meas'd Value	Final Gage or BAS Value	Pas Y/N
instrument. V	isual =	actual obs	ervation. T	he Contra	ctor's own	nt. BAS = buildin	sheets n				, if
					-	edures are follower rances			YES	NO)