Columbus Metropolitan Library HVAC Inventory

LOCATION	Address	City	State	ZIP	Cooling Tower	Chiller	Sand Filter	Septic System Major Pump	Dedicated Outdoor Air System	Boiler	Daikin FCU	Daikin Condenser	AHU	Major Water / Sewage Pump
Driving Park	1422 E Livingston Ave	Columbus	OH	43205	0	0	0	0	1	1	19	5	0	0
Hilliard - Hickory Chase	4500 Hickory Chase Way	Hilliard	OH	43026	1	0	1	0	0	4	4	4	0	0
Karl Road	5590 Karl Rd	Columbus	OH	43229	0	1	0	0	0	2	0	0	1	0
Main	96 S. Grant Ave	Columbus	OH	43215	0	1	0	3	0	4	27	15	6	4
Martin Luther King	1467 East Long St.	Columbus	OH	43203	0	0	0	0	1	0	20	4	0	0
Northern Lights	4093 Cleveland Ave	Columbus	OH	43224	0	0	0	0	2	0	34	7	0	0
Northside	1423 N. High St	Columbus	OH	43201	0	0	0	0	1	0	29	5	0	0
Operation Center	101 South Stygler Rd.	Gahanna	OH	43230	0	2	0	0	0	2	0	0	3	0
Parsons	1113 Parsons Ave	Columbus	OH	43206	0	0	0	0	1	0	23	5	0	0
Shepard	850 N Nelson Rd	Columbus	OH	43219	0	0	0	0	1	0	16	3	0	0
Whitehall	4445 East Broad St	Columbus	OH	43213	0	0	0	0	1	0	31	5	0	0
Dublin *	75 N. High Street	Dublin	OH	43017	?	?	?	?	?	?	?	?	?	?
Canal Winchester	115 Franklin St	Canal Winchester	OH	43110	0	0	0	0	0	0	0	0	0	0
Franklinton	1061 W. Town St.	Columbus	OH	43222	0	0	0	0	0	0	0	0	0	0
Gahanna	310 Granville St	Gahanna	OH	43230	0	0	0	0	0	0	0	0	0	0
Hilliard	4772 Cemetery Rd.	Hilliard	OH	43026	0	0	0	0	0	0	0	0	0	0
Hilltop	511 S. Hague Ave.	Columbus	OH	43204	0	0	0	0	0	0	0	0	0	0
Linden	2223 Cleveland Ave	Columbus	OH	43211	0	0	0	0	0	0	0	0	0	0
Livingston	3434 Livingston Ave	Columbus	OH	43227	0	0	0	0	0	0	0	0	0	0
Marion Franklin	2740 Lockbourne Rd	Columbus	OH	43207	0	0	0	0	0	0	0	0	0	0
New Albany	200 Market St	New Albany	OH	43054	0	0	0	0	0	0	0	0	0	0
Reynoldsburg	1402 Brice Rd	Reynoldsburg	OH	43068	0	0	0	0	0	0	0	0	0	0
Shepard (Old)	790 N. Nelson Rd	Columbus	OH	43219	0	0	0	0	0	0	0	0	0	0
South High	3540 S. High St	Columbus	OH	43207	0	0	0	0	0	0	0	0	0	0
Southeast	3980 S. Hamilton Rd	Groveport	OH	43125	0	0	0	0	0	0	0	0	0	0
Whetstone	3909 N. High St	Columbus	OH	43214	0	0	0	0	0	0	0	0	0	0

HVAC Split System
Master Task List

Company:_____
Address:_____
Brand Name:_____ Unit #:_____
Model #:_____
Serial #:_____
Serviced By:_____ Date:_____

☐ **Preseason Annual Inspection**

1.	Inspect and tighten all electrical connections	☐
2.	Check compressors general condition	☐
3.	Check operation of indoor thermostat	☐
4.	Check operation of safety controls	☐
5.	Check and record compressor starting amp draw _____	☐
6.	Check and record compressor running amp draw _____	☐
7.	Check and record Condenser motor starting amp draw_____	☐
8.	Check and record Condenser motor running amp draw_____	☐
9.	Check operation and contacts of contactor	☐
10.	Lubricate motor (If applicable)	☐
11.	Check and clean fan blade	☐
12.	Check and clean Condenser coil	☐
13.	Check for refrigerant leaks	☐
14.	Check and record blower motor starting amp draw _____	☐
15.	Check and record blower motor running amp draw _____	☐
17.	Check and clean evaporator coil (As required)	☐
18.	Check and clean blower wheel (As required)	☐
19.	Check and adjust blower belt tension	☐
20.	Replace blower belt (As required)	☐
21.	Replace air filters	☐
23.	Check for blockage of the condensate drain. Clean the condensate pan as needed. Add condensate pan tablets to reduce sludge	☐
24.	Check flue pipe and cap	☐
25.	Check heat exchanger for any signs of rust or cracks	☐
26.	Lubricate actuators and dampeners ensure all work properly	☐

COMMENTS

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Septic System
Master Task List

Company:_____
Address:_____
Brand Name:_____ Unit #:_____
Model #:_____
Serial #:_____
Serviced By:_____ Date:_____

Annual Inspection	OK	Deficient
Pull pump from pit wash and visually inspect	☐	☐
Check electrical condition of insulation on power cable(s)	☐	☐
and on all phases of the motor (in Meg Ohms).	☐	☐
Check for any loose or faulty electrical connections within the control panel.	☐	☐
Measure resistance between stator windings (in Ohms).	☐	☐
Check voltage supply between all phases of the electrical control panel.	☐	☐
Check amperage draw on all phases of the motor (in Amps).	☐	☐
Check condition and operation of the motor thermal protection control system (if equipped).	☐	☐
Removal of pump / mixer from the lift station for physical inspection.	☐	☐
Check condition of upper and lower shaft seals (inspect condition of motor / stator housing, if applicable).	☐	☐
Check condition and operation of leakage and bearing sensors (if equipped).	☐	☐
Drain oil from oil housing and replace with new oil.	☐	☐
Check for worn or loose impeller or propeller.	☐	☐
Check impeller wear rings (rotating & stationary)	☐	☐
Adjust clearances as needed for optimal operation.	☐	☐
Check for any unusual noise in the upper and lower bearings.	☐	☐
Clean, reset and check operation of the level control system (if equipped).	☐	☐
Check for physical damage of power and control cables.	☐	☐
Check for correct shaft rotation.	☐	☐
Reinstall the pump / mixer and check operation	☐	☐
Test the pump	☐	☐
Check operation of valves and associated equipment.	☐	☐
Check sediment level in pit – clean and pump debris as needed	☐	☐

*Quote out any repairs necessary that would take longer than 2 additional hours after completing the preventive maintenance service.

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River / Storm Pumps
Master Task List

Company:_____
Address:_____
Brand Name:_____ Unit #:_____
Model #:_____
Serial #:_____
Serviced By:_____ Date:_____

Annual Inspection	OK	Deficient
Pull pump from pit, wash and visually inspect	☐	☐
Check electrical condition of insulation on power cable(s)	☐	☐
and on all phases of the motor (in Meg Ohms).	☐	☐
Check for any loose or faulty electrical connections within the control panel.	☐	☐
Measure resistance between stator windings (in Ohms).	☐	☐
Check voltage supply between all phases of the electrical control panel.	☐	☐
Check amperage draw on all phases of the motor (in Amps).	☐	☐
Check condition and operation of the motor thermal protection control system (if equipped).	☐	☐
Removal of pump / mixer from the lift station for physical inspection.	☐	☐
Check condition of upper and lower shaft seals (inspect condition of motor / stator housing, if applicable).	☐	☐
Check condition and operation of leakage and bearing sensors (if equipped).	☐	☐
Drain oil from oil housing and replace with new oil.	☐	☐
Check for worn or loose impeller or propeller.	☐	☐
Check impeller wear rings (rotating & stationary)	☐	☐
Adjust clearances as needed for optimal operation.	☐	☐
Check for any unusual noise in the upper and lower bearings.	☐	☐
Clean, reset and check operation of the level control system (if equipped).	☐	☐
Check for physical damage of power and control cables.	☐	☐
Check for correct shaft rotation.	☐	☐
Reinstall the pump / mixer and check operation	☐	☐
Test the pump	☐	☐
Check operation of valves and associated equipment.	☐	☐
Check sediment level in pit – clean and pump debris as needed	☐	☐

*Quote out any repairs necessary that would take longer than 2 additional hours after completing the preventive maintenance service.

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Plate and Frame
Master Task List

Company:_____
Address:_____
Brand Name:_____ Unit #:_____
Model #:_____
Serial #:_____
Serviced By:_____ Date:_____

Annual Inspection

		OK	Deficient
1.	Visual examination – check overall general condition	☐	☐
2.	Remove any accumulation of dust and debris from coils	☐	☐
3.	Make sure the plate pack is tightened to specification	☐	☐
4.	Ensure the carrying and guide bars are lubricated,	☐	☐
5.	Inspect and ensure and the gaskets appear undamaged.	☐	☐
6.	Check your pressure gauges at each end of the PHE to make sure		
7.	The pressure drop is within expected limits.	☐	☐
8.	Clean-In-Place The biggest goal of cleaning is to flush out the various kinds of debris that collect in a PHE over time, which will vary depending on your process.		
	a. Drain both sides and isolate it from your system fluid (generally done with isolation valves).	☐	☐
	b. Then, flush water through both sides until it runs clear. For best results, you should flush the fluids counter to the direction that they run in operation.	☐	☐

*Quote out any repairs necessary that would take longer than 2 additional hours after completing the preventive maintenance service.

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Hamilton Boiler
Master Task List

Company:_____
Address:_____
Brand Name:_____ Unit #:_____
Model #:_____
Serial #:_____
Serviced By:_____ Date:_____

Annual Inspection	OK	Deficient
1. Remove the front cover and check all pipes, lines and connections, heat exchanger (top, bottom) for traces of water and water leakage..	☐	☐
2. Inspect the top of the casing and/or the top of the appliance for water leakage or traces of water from the air supply pipe or the air vent.	☐	☐
3. If the inspection is being carried out by a Hamilton Engineering Certified Technician, connect your computer and check the service page for error messages, starts and failed/successful starting efforts	☐	☐
4. Dismantle the burner unit: remove the (6) 6mm nuts and the ignition cable, and move the burner unit forward. Remove the plug of the fan cable to the fan once the burner has been pulled halfway from the appliance. Check the inside of the heat exchanger: only clean residue at the bottom side of the heat exchanger coil. Use a vacuum cleaner, and do not push the residue between the openings of the coils if at all possible as this may impede the flow of the products of combustion. It is possible to use clear water to rinse any remaining residue away – the water will automatically flow to the condensate drain point.	☐	☐
5. Dismantle the air gas mixing plate or chamber on the suction side of the fan; check the blade Wheel of the fan, and clean if required.		
6. Check the distance from the electrode to the burner; there Should be a 3/8" gap in between the two. If the existing electrode pins must be adjusted, caution must be exercised as they will likely be brittle from exposure to the flame; try to bend them as close to the burner door insulation as possible. New electrodes will be less susceptible to breakage during adjustment		
The following steps require the power supply be turned back on; extreme caution must be exercised when performing service with the power supply on and the door off.		
7. Fire the appliance on maximum output, and measure and adjust the CO2 percentage as required.	☐	☐
8. Fire the appliance on minimum output, and measure and adjust the CO2 percentage as required.	☐	☐
9. Listen for any unusual noise in the circulating pump and the fan.	☐	☐

CONDENSATE TRAP CLEANING INSTRUCTIONS

1. Turn off the power to the EVO.	☐	☐
2. Place a bucket under the condensate trap.	☐	☐
3. Remove the condensate clean-out cap. Use caution when removing the cleanout cap, as the trap is full of condensate and it may be hot.	☐	☐
4. Rinse out the clean-out cap to remove any dirt or buildup that may have accumulated.	☐	☐
5. Reinstall the clean-out cap on the condensate trap.	☐	☐
6. Turn on the power to the EVO.	☐	☐
7. Monitor the condensate drain until flow has been established	☐	☐

Annual Inspection

	OK	Deficient
COMBUSTION CHAMBER COIL CLEANING INSTRUCTIONS		
Use only a Nylon brush - DO NOT use brass, stainless or steel brushes.		
1. Shut down the EVO by using the following steps:		
Turn off the power, close the gas valve, and shut down the unit.		
Wait for the unit to be cool to the touch.		
Remove the clean-out cap		
Remove the molex plugs from the fan.		
Remove the (6) 6mm nuts from the burner plate assembly to access the coils.		
Pull the entire burner plate assembly towards you and protect or remove rear target wall.	☐	☐
2. Vacuum all loose material, then use the nylon brush to scrub coils to remove any buildup, then vacuum the debris from the coils.	☐	☐
3. Spray the coils with clear water, making sure to confine the spray to the area being cleaned (try to avoid getting the back ceramic (target) wall of the unit wet). Flush the combustion chamber with fresh water. The EVO should be ready to power back up.	☐	☐
4. 4) Before powering up the EVO follow the steps below		
Re-install the burner assembly and rear target wall (ceramic insulation)		
Replace the (6) 6mm nuts to the burner plate.		
Re-connect the molex plugs.		
Re-set thermostats.		
Replace the clean-out cap.		
Turn the EVO back on and monitor the condensate drain until flow has been established.		
Re-connect the condensate hose to the outside connection.	☐	☐

*Quote out any repairs necessary that would take longer than 2 additional hours after completing the preventive maintenance service.

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DOAS ROOF TOP UNIT
Master Task List

Company:_____
Address:_____
Brand Name:_____ Unit #:_____
Model #:_____
Serial #:_____
Serviced By:_____ Date:_____

Annual Inspection

		OK	Deficient
1.	Check general condition	☐	☐
2.	All blowers, including furnace inducer, have sealed bearings. No lubrication is necessary.	☐	☐
3.	Tighten all wire connections.	☐	☐
4.	Clean the outside and inside coils mechanically or with cold water, if necessary. Usually any fouling is only matted on the entering air face of the coil and can be removed by brushing or vacuuming.	☐	☐
3.	Replace all of the air filters.	☐	☐
4.	Check for blockage of the condensate drain. Clean the condensate pan as needed. Add condensate pan tablets to reduce sludge.	☐	☐
5.	Check the running amperage of all motors. Check and record compressor starting amp draw _____	☐	☐
6.	Check the power and control voltages.	☐	☐
7.	Check the running amperage of all motors.	☐	☐
9.	Check the power and control voltages.	☐	☐
10.	Check safety controls	☐	☐
11.	Check all operating temperatures and pressures.	☐	☐
12.	Check Condenser motor	☐	☐
13.	Check and adjust all temperature and pressure controls as needed.	☐	☐
14.	Check and record Condenser motor running amp draw _____	☐	☐
15.	Check the condenser fans and tighten their setscrews.	☐	☐
16.	Check and adjust all damper linkages as needed.	☐	☐
17.	Check and clean blower wheel (As required)	☐	☐
18.	Check reversing valve (If applicable)	☐	☐
19.	Run a full system diagnosis test, report any found trouble codes.	☐	☐

*Quote out any repairs necessary that would take longer than 2 additional hours after completing the preventive maintenance service.

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Cooling Tower
Master Task List

Company:_____
Address:_____
Brand Name:_____ Unit #:_____
Model #:_____
Serial #:_____
Serviced By:_____ Date:_____

Annual Inspection	OK	Deficient
1. Be sure all equipment is operating and safety systems are in place.	☐	☐
2. Physically clean the screen of all debris.	☐	☐
3. Operate float or electronic make-up to ensure proper operation.	☐	☐
4. Check for excessive vibration in motors, fans, and pumps.	☐	☐
5. Check for loose fill, connections, leaks, rust, corrosion, etc.	☐	☐
6. Check all belts and pulleys and adjust as needed.	☐	☐
7. For an open cooling tower, test the water for proper concentrations of dissolved solids and chemistry.	☐	☐
8. Check motor supports and fan blades for excessive wear and secure fastening.	☐	☐
9. Inspect motor alignment and coupling.	☐	☐
10. Inspect drift eliminators for proper positioning and scale build-up.	☐	☐
11. Inspect the condition of pulleys and/or belts.	☐	☐
12. Check gear reducer box for lubricant level and add if needed.	☐	☐
13. Assure that all bearings are lubricated per the manufacturer's recommendations.	☐	☐
14. Inspect and clean nozzles as needed.	☐	☐
15. Inspect fan blades for cracks and clean as needed.	☐	☐
16. Remove and clean strainer in sump.	☐	☐
17. Change gear reducer lubricant with factory-recommended oil.	☐	☐
18. Power wash tower fill and use scale remover as needed.	☐	☐
19. Check for corrosion and rust.	☐	☐
20. Perform meg-ohm test motor windings.	☐	☐
21. Change oil in gear box if applicable.	☐	☐
22. Inspect vibration safety device.	☐	☐
23. Check and ensure proper operation of sump heater	☐	☐
24. Check / inspect heat transfer fill for obstructions & damage	☐	☐

Quote out any repairs necessary that would take longer than 2 additional hours after completing the preventive maintenance service.

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Chiller
Master Task List

Company:_____
Address:_____
Brand Name:_____ Unit #:_____
Model #:_____
Serial #:_____
Serviced By:_____ Date:_____

Annual Inspection	OK	Deficient
1. Check All Condenser Fans for Proper Operation	☐	☐
2. Check fan belt tension	☐	☐
3. Check All Condenser Fan Blades	☐	☐
4. Check for Any Oil and Refrigerant Leaks thru out the Chiller	☐	☐
5. Check Oil Level in Each Compressor	☐	☐
6. Lubricate field serviceable bearings	☐	☐
7. Perform spectroscopic oil analysis on all compressors and provide test result (within 30 days of completing the PM.)	☐	☐
8. Check for evidence of buildup or fouling on heat exchanger	☐	☐
9. Check low ambient head pressure control sequence for proper operation	☐	☐
10. Check sub-cooling and record results	☐	☐
11. Check the Crankcase Heater for Proper Operation	☐	☐
12. Check Motor Masters for Proper Operation	☐	☐
13. Check set points against actual temperature	☐	☐
14. Inspect service pit for any leaks or other items (Ops Center only)	☐	☐
15. Check drive alignment wear seating and operation	☐	☐
16. Check Controls for Proper Operation	☐	☐
17. Run Chiller thru a "Quick Test". Check out in Manual	☐	☐
18. Run Each Compressor to Verify Proper Operation	☐	☐
19. Check Refrigerant Level / Use Sight Glass	☐	☐
20. Tighten All Terminals and Contacts in Control Compartments	☐	☐
21. Verify Proper Pump Operation	☐	☐
22. Check All Contactors for Proper Operation	☐	☐
23. List Any Failure Codes and Check with Customer for Repairs	☐	☐
24. Check for excessive vibration	☐	☐
25. Ensure pipe insulation is intact	☐	☐

Quote out any repairs necessary that would take longer than 2 additional hours after completing the preventive maintenance service.

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Daikin Wall Units
Master Task List

Company:_____
Address:_____
Brand Name:_____ Unit #:_____
Model #:_____
Serial #:_____
Serviced By:_____ Date:_____

Annual Inspection	OK	Deficient
Indoor Unit Maintenance Task List		
Check unit cabinet for signs of physical damage	☐	☐
Check the indoor unit air intake and discharge clearances -	☐	☐
Check that the drain is not blocked -	☐	☐
Check the condition of the heat exchanger (indoor coil), clean the heat exchanger and repair any fin damage -	☐	☐
Make sure indoor fan is free of dirt, debris, cracks, etc. and that it is securely connected to the fan motor -	☐	☐
Ensure that the refrigeration piping insulation is not damaged -	☐	☐
Ensure all refrigerant piping is insulated -	☐	☐
Check for signs of refrigerant leakage, i.e. oil in drain pan of unit, and around flared joints -	☐	☐
Tighten all electrical connections as per manual torque specifications	☐	☐
Check that all connectors are securely connected to the indoor unit Printed Circuit Board (PCB) -	☐	☐
Ensure all cabinet screws are secure -	☐	☐
While operating, check for any abnormal noise or vibration -	☐	☐
Check the set points for space heating and space cooling -	☐	☐
Check the current time and day setting on the controller -	☐	☐
All Heating and Cooling zones should be tested for proper operation -	☐	☐
Outdoor Unit Maintenance Task List		
Check unit cabinet for signs of physical damage -	☐	☐
Check the outdoor unit air intake and discharge clearances -	☐	☐
Ensure the outdoor cabinet drains are clear -	☐	☐
Check the condition of the heat exchanger (outdoor coil), clean the heat exchanger and repair any fin damage -	☐	☐
Make sure outdoor fan is free of dirt, debris, cracks, etc. and that it is securely connected to the fan motor -	☐	☐
Ensure that the refrigeration piping insulation is not damaged -	☐	☐
Ensure all refrigerant piping is insulated -	☐	☐
Check for signs of refrigerant leakage, i.e. oil in base of unit and around brazed joints -	☐	☐

Tighten all electrical connections as per manual torque specifications	☐	☐
Check that all connectors are securely connected to the outdoor unit Printed Circuit Board (PCB) -	☐	☐
Ensure all cabinet screws are secure -	☐	☐
While operating, check of the system for any abnormal noise or vibration from the condensing unit -	☐	☐

*Quote out any repairs necessary that would take longer than 2 additional hours after completing the preventive maintenance service.

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Atrium Exhaust Fans
Master Task List

Company:_____
Address:_____
Brand Name:_____ Unit #:_____
Model #:_____
Serial #:_____
Serviced By:_____ Date:_____

Annual Inspection

		OK	Deficient
1.	Coordinate operational test with Property Management Ensure all related alarms are in by-pass prior to inspection	☐	☐
2.	Visual examination – check overall general condition	☐	☐
3.	Inspect belts and belt tension	☐	☐
4.	Lubricate fan shaft and motor bearings where applicable	☐	☐
5.	Check all electrical connections for tightness and damage	☐	☐
6.	Clean motor intake screens	☐	☐
7.	Clean and lubricate actuator linkage(s) – ensure operation	☐	☐
8.	Ensure vibration isolators are secure and in working order	☐	☐
9.	Test / Activate system – ensure all in working order	☐	☐

*Quote out any repairs necessary that would take longer than 2 additional hours after completing the preventive maintenance service.

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Boiler
Master Task List

Company:_____
Address:_____
Brand Name:_____ Unit #:_____
Model #:_____
Serial #:_____
Serviced By:_____ Date:_____

Annual Inspection	OK	Deficient
1. Take a stack temperature reading to determine how efficiently the boiler is operating. A well-tuned boiler should have a stack temperature ranging between 50 – 100 degrees above the steam or water temperature.	☐	☐
2. Check he gas pressure coming into the gas pressure regulator and also its downstream pressure.	☐	☐
3. The supply and return water temperatures are proper	☐	☐
4. Look through the boiler's sight port in the furnace and observe the flame for any evidence of impingement and possible sooting.	☐	☐
5. Take water samples and compare them to the recommendation.	☐	☐
6. Check the condition of the gauge glass on the low water cutoff for wear and etching.	☐	☐
7. Observe the operating and modulating controls, and while watching the pressure gauge, see if they are turning on and off at their respective set points.	☐	☐
8. Pull out the flame scanner to ensure the burner shuts off at the prescribed time.	☐	☐
9. Check the indicating lights and alarms to make sure they are functioning properly.	☐	☐
10. Assess the motors for noise and vibration.	☐	☐
11. Look for leaks of fuel, water or flue gas.	☐	☐
12. Check the high- and low-gas pressure switches and the combustion air proving switch.	☐	☐
13. Check the burner's diffuser for any deformation, burning or cracking.	☐	☐
14. Check the burner's pilot tube that contains the electrode that provides the spark for pilot ignition.	☐	☐
15. Check the free movement of the air damper device or devices.	☐	☐
16. Check the entire outside of the boiler for signs of hot spots.	☐	☐
17. Remove and inspect the low water cutoff bowl and its interconnecting piping	☐	☐
18. Inspect the condition of the head assembly's wiring and switches	☐	☐
19. Check the pump alignment on all the base-mounted pumps in the boiler room	☐	☐
20. Reset combustion using a combustion analyzer for reading O2, CO and NOx emissions	☐	☐
21. Open and inspect the access doors to expose the fireside of the boiler.	☐	☐
22. Thoroughly clean the tubes and tube sheets.	☐	☐
23. Inspect the insulating materials, looking for any degradation.	☐	☐
24. Check the refractory. Cracks in the refractory insulation of 1/8" or less are okay.	☐	☐
25. On the waterside, look for heavy scaling and bridging of the tubes with scale.	☐	☐
26. Look for evidence of oxygen corrosion.	☐	☐
27. Check the gas valves & test as recommended by the valve manufacturer	☐	☐
28. Check the safety valve to make sure there is no sign of leakage	☐	☐
29. On the control panel, ensure that all of the electrical connections are tight.	☐	☐

*Quote out any repairs necessary that would take longer than 2 additional hours after completing the preventive maintenance service.

COMMENTS