



Combustion Controls Testing List- Oven Furnace Gas & Oil Fired Initial Test

Facility Name:
Address:
Equipment Name/Type/Number:
Btu/hr. Input Rating:
Main Burner Fuel Type:

	Item Tested	Tested Okay	Corrected
1a	Leak Test Upstream Main Gas Shutoff Valve: Bubbles/Min.:		
1b	Leak Test Downstream Main Gas Shutoff Valve: Bubbles/Min.:		
2a	Leak Test Upstream Pilot Gas Shutoff Valve: Bubbles/Min.:		
2b	Leak Test Upstream Pilot Gas Shutoff Valve: Bubbles/Min.:		
3a	Leak Test Zone 1 Gas Shutoff Valve: Bubbles/Min.:		
3b	Leak Test Zone 2 Gas Shutoff Valve: Bubbles/Min.:		
4a	Leak Test Burner 1 Gas Shutoff Valve: Bubbles/Min.:		
4b	Leak Test Burner 2 Gas Shutoff Valve: Bubbles/Min.:		
4c	Leak Test Burner 3 Gas Shutoff Valve: Bubbles/Min.:		
4d	Leak Test Burner 4 Gas Shutoff Valve: Bubbles/Min.:		

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	Item Tested	Tested Okay	Corrected
5a	Leak Test Burner 1 Pilot Gas Shutoff Valve: Bubbles/Min.:		
5b	Leak Test Burner 2 Pilot Gas Shutoff Valve: Bubbles/Min.:		
5c	Leak Test Burner 3 Pilot Gas Shutoff Valve: Bubbles/Min.:		
5d	Leak Test Burner 4 Pilot Gas Shutoff Valve: Bubbles/Min.:		
6	High Gas Pressure Switch: Design Setting: Actual Setting: Left Setting At:		
7	Low Gas Pressure Switch: Design Setting: Actual Setting: Left Setting At:		
8	Low Fuel Oil Pressure Interlock: Design Setting: Actual Setting: Left Setting At:		
10	Low Fuel Oil Temperature Interlock (Heated Oil):		
11	Low Fuel Oil Burner Atomizing Air / Steam Interlock:		
12a	Low Combustion Air Flow/Pressure Switch: Design Setting: Actual Setting: Left Setting At:		
12b	Low Recirculation Air Flow/Pressure Switch: Design Setting: Actual Setting: Left Setting At:		
12c	Low Exhaust Air Flow/Pressure Switch: Design Setting: Actual Setting: Left Setting At:		

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	Item Tested	Tested Okay	Corrected
13	Purge Timer: Design Setting: Actual Setting: Left Setting At:		
14	Proof of Air Damper High Fire Position for Purge:		
15	Low Fire Position Proven Prior to Burner Startup:		
16	Pilot Burner Trial for Ignition Period: Design Setting Seconds: Actual Setting Seconds:		
17	Main Burner Trial for Ignition Period: Design Setting Seconds: Actual Setting Seconds:		
18a	Flame Failure Detection Pilot 1:		
18b	Flame Failure Detection Pilot 2:		
18c	Flame Failure Detection Pilot 3:		
18d	Flame Failure Detection Pilot 4:		
19a	Flame Failure Detection Main Burner 1:		
19b	Flame Failure Detection Main Burner 2:		
19c	Flame Failure Detection Main Burner 3:		
19d	Flame Failure Detection Main Burner 4:		
20a	Excess Temperature Interlock Zone 1: Design Setting: Actual Setting: Left Setting At:		
20b	Excess Temperature Interlock Zone 2: Design Setting: Actual Setting: Left Setting At:		
20c	Excess Temperature Interlock Zone 3: Design Setting: Actual Setting: Left Setting At:		
20d	Excess Temperature Interlock Zone 4: Design Setting: Actual Setting: Left Setting At:		

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	Item Tested	Tested Okay	Corrected
21	Activation Of E-Stop:		
22	Visually Inspect Explosion Relief Devices to Ensure they are Not Obstructed:		
23	All Safety Interlocks are Present and have Not been Bypassed or Rendered Ineffective:		
24	Calibration of Indicating and Recording Instruments		
<u>Any Additional Interlocks Should Be Added To The Form</u>			

Inspected and Tested By:

Date:

Witnessed By:

Date:

Note: Testing should only simulate hazardous conditions and not create a hazardous condition due to testing.

Reference & Resources

NFPA 86: Standard for Ovens and Furnaces

For further information, contact your local AIG Property Risk Engineer.

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