



Combustion Controls Testing List- Oven Furnace Gas Fired Initial Test

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

	Item Tested	Tested Ok	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 Ok	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:		
8a	Low Combustion Air Flow/Pressure Switch Design Setting: Actual Setting: Left Setting At:		
8b	Low Recirculation Air Flow/Pressure Switch Design Setting: Actual Setting: Left Setting At:		
8c	Low Exhaust Air Flow/Pressure Switch Design Setting: Actual Setting: Left Setting At:		
9	Purge Timer: Design Setting: Actual Setting: Left Setting At:		
10	Proof of Air Damper High Fire Position for Purge:		

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	Item Tested	Tested Ok	Corrected
11	Low Fire Position Proven Prior to Burner Startup:		
12	Pilot Burner Trial for Ignition Period: Design Setting: Actual Setting:		
13	Main Burner Trial for Ignition Period: Design Setting: Actual Setting:		
14a	Flame Failure Detection Pilot 1		
14b	Flame Failure Detection Pilot 2		
14c	Flame Failure Detection Pilot 3		
14d	Flame Failure Detection Pilot 4		
15a	Flame Failure Detection Main Burner 1		
15b	Flame Failure Detection Main Burner 2		
15c	Flame Failure Detection Main Burner 3		
15d	Flame Failure Detection Main Burner 4		
16a	Excess Temperature Interlock Zone 1: Design Setting: Actual Setting: Left Setting At:		
16b	Excess Temperature Interlock Zone 2: Design Setting: Actual Setting: Left Setting At:		
16c	Excess Temperature Interlock Zone 3: Design Setting: Actual Setting: Left Setting At:		
16d	Excess Temperature Interlock Zone 4: Design Setting: Actual Setting: Left Setting At:		
17	Activation of E-Stop:		
18	Visually Inspect Explosion Relief Devices to Ensure they are Not Obstructed:		
19	All Safety Interlocks are Present and Have Not been Bypassed or Rendered Ineffective:		
20	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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