



# Combustion Controls Testing List- Boilers Single Burner Gas & Oil Initial Test

<b>Facility Name:</b>			
<b>Address:</b>			
<b>Equipment Name/Type/Number:</b>			
<b>Btu/hr. Input Rating:</b>			
<b>Main Burner Fuel Type:</b>			
	<b>Item Tested</b>	<b>Tested Okay</b>	<b>Corrected</b>
1a	Leak Test Upstream Main Gas Shutoff Valve: Bubbles/Min.		
1b	Upstream Main Gas Shutoff Valve Proven Closed During Purge:		
2a	Leak Test Downstream Main Gas Shutoff Valve: Bubbles/Min.		
2b	Downstream Main Gas Shutoff Valve Proven Closed During Purge:		
3a	Leak Test Upstream Igniter Gas Shutoff Valve: Bubbles/Min.		
3b	Upstream Igniter Gas Shutoff Valve Proven Closed During Purge:		
4a	Leak Test Downstream Igniter Gas Shutoff Valve: Bubbles/Min.		
4b	Downstream Igniter Gas Shutoff Valve Proven Closed During Purge:		
5	High Gas Pressure Switch: Design Setting: Actual Setting: Left Setting At:		
6	Low Gas Pressure Switch: Design Setting: Actual Setting: Left Setting At:		
7	Low Fuel Oil Pressure Interlock: Design Setting: Actual Setting: Left Setting At:		

Insight: Combustion Controls Tip Sheet- Boilers Single Burner Gas or Oil Initial Test

	Item Tested	Tested Okay	Corrected
8	Low Fuel Oil Temperature Interlock (Heated Oil): Design Setting: Actual Setting: Left Setting At:		
9	Low Fuel Oil Burner Atomizing Air/Steam Interlock: Design Setting: Actual Setting: Left Setting At:		
10	Low Combustion Air Flow/Pressure Switch: Design Setting: Actual Setting: Left Setting At:		
11	Loss Of Combustion Air Fan:		
12	Purge Timer: Design Setting: Actual Setting: Left Setting At:		
13	Proof Of Air Damper Position For Purge:		
14	Low Fire Start Position Proven Prior To Burner Startup:		
15	Igniter Trial For Ignition Period (Should Not Exceed 10 Seconds): Design Setting Seconds: Actual Setting Seconds:		
16	Main Burner Trial For Ignition Period(Should Not Exceed 10 Seconds For Gas, Nos. 2 Or 4 Fuel Oil <u>OR</u> 15 Seconds For Nos. 5 Or 6 Fuel Oils): Design Setting Seconds: Actual Setting Seconds:		
17	Flame Failure Detection Main Burner:		
18	Flame Failure Detection Igniter (If Applicable):		
19	Low Water Level Interlock:		
20	High Water Temperature Interlock: Design Setting: Actual Setting: Left Setting At:		
21	High Steam Pressure Interlock: Design Setting: Actual Setting: Left Setting At:		
22	Activation Of E-Stop:		
23	All Safety Interlocks are Present and Have Not Been Bypassed or Rendered Ineffective:		
24	Calibration of Indicating and Recording Instruments		

# Insight: Combustion Controls Boiler Single Burner Gas or Oil Fired Initial Test Checklist

	<b>Item Tested</b>	<b>Tested Okay</b>	<b>Corrected</b>

Inspected And Tested By:

Date:

Testing Witnessed By:

Date:

## Reference & Resources

NFPA 85: Boiler and Combustion System Hazards Code

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

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