

## GAS EQUIPMENT AND BOILER COMMISSIONING FORM

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**Note:** Technical Safety BC collects your personal information for the purpose of administering permits and other activities under the *Safety Standards Act* and may need to disclose this information to entities such as utilities, provincial agencies, and municipalities. By submitting this form, you are consenting to the disclosure described above. Any personal information collected is handled in accordance with the British Columbia *Freedom and Protection of Privacy Act*. If you have questions about the collection, use, or disclosure of this information, contact the Records, Information and Privacy Analyst for the Technical Safety BC at 1-866-566-7233.

Gas permit #		Commission/Product Approval #		Boiler Permit #	
Gas Contractor #:		Contractor Name:		Date:	
Gas Fitter #:		Fitter Name:		Name of Safety Officer:	
Site Address: Suite No:		Street No:		Street Name:	
				City:	
				Postal Code:	
Site Contact Name:			Phone Number:		
Boiler & Pressure Vessel Registration #:			Manufacturer:		
Unit Type:		<input type="checkbox"/> Boiler <input type="checkbox"/> Dehumidifier <input type="checkbox"/> Grain Dryer <input type="checkbox"/> Heat Treat Furnace <input type="checkbox"/> Process Oven <input type="checkbox"/> Other (specify): <input type="checkbox"/> DFMUA <input type="checkbox"/> Dry Kiln <input type="checkbox"/> Gravel Dryer <input type="checkbox"/> Industrial Furnace <input type="checkbox"/> Roof Top			
Unit Model:			Unit Serial #:		
Burner Type:		Burner Model:		Burner Serial #:	
<input type="checkbox"/> Atmospheric <input type="checkbox"/> Fan Assisted <input type="checkbox"/> Fan Induced		<input type="checkbox"/> Power Burner <input type="checkbox"/> Premix			
Type of Fuel:		<input type="checkbox"/> Natural <input type="checkbox"/> Propane <input type="checkbox"/> Other (specify)			
High Altitude Certification: <input type="checkbox"/> Yes <input type="checkbox"/> No			Boiler CRN Number:		
Certification: <input type="checkbox"/> CSAc <input type="checkbox"/> ETLc <input type="checkbox"/> INTERTEKc <input type="checkbox"/> OMNlc <input type="checkbox"/> ULc <input type="checkbox"/> WHc <input type="checkbox"/> Other (specify) _____					
Max. Input:		<input type="checkbox"/> Confirmed		Trial for ignition (in seconds)	
Gas Supply Pressure:		<input type="checkbox"/> PSI <input type="checkbox"/> Inches <input type="checkbox"/> Confirmed		Flame Failure Response Time (in seconds)	
Gas Piping Pressure tested:		<input type="checkbox"/> PSI <input type="checkbox"/> Inches <input type="checkbox"/> Confirmed		Pre-purge (in seconds)	
Gas Manifold Pressure:		<input type="checkbox"/> PSI <input type="checkbox"/> Inches <input type="checkbox"/> Confirmed		Ignition Type	
Atmospheric Pressure:		<input type="checkbox"/> PSI <input type="checkbox"/> HG		Flame Sensor	
Elevation:		<input type="checkbox"/> FT <input type="checkbox"/> Meters		Flame Safeguard Manufacturer	
Installation Instructions		<input type="checkbox"/> Confirmed		Flame Safeguard Model	
Name & Rating Plate Info		<input type="checkbox"/> Confirmed		Pilot Gas Reg Vent Piped <input type="checkbox"/> Confirmed <input type="checkbox"/> N/A	
Startup & Shutdown		<input type="checkbox"/> Confirmed		Main Gas Reg Vent Piped <input type="checkbox"/> Confirmed <input type="checkbox"/> N/A	
Appliance Regulator		<input type="checkbox"/> Installed & tested <input type="checkbox"/> N/A		Other Vents Piped <input type="checkbox"/> Confirmed <input type="checkbox"/> N/A	
Pilot Gas SSOV Tightness		<input type="checkbox"/> Confirmed		High Gas Pressure Relief <input type="checkbox"/> Confirmed <input type="checkbox"/> N/A	
Main Gas SSOV Tightness		<input type="checkbox"/> Confirmed		Temp. Rise in °F <input type="checkbox"/> Confirmed <input type="checkbox"/> N/A	
Firing Valve		<input type="checkbox"/> Confirmed		Low Fire Input BTUH	
Observation View Port		<input type="checkbox"/> Confirmed		High Fire Input BTUH	
Explosion Relief		<input type="checkbox"/> Confirmed <input type="checkbox"/> N/A		Normal Operating Temp°	
Safety Relief Valve		<input type="checkbox"/> Installed <input type="checkbox"/> N/A		Combustion Air Proving Switch <input type="checkbox"/> Installed & Tested <input type="checkbox"/> N/A	
Normal Boiler Pressure PSI		<input type="checkbox"/> N/A		Combustion Air Duct Size <input type="checkbox"/> Confirmed <input type="checkbox"/> N/A	
Door Interlock Switch		<input type="checkbox"/> Confirmed <input type="checkbox"/> N/A		<b>Gasfitter Notes:</b>	
Inlet Air Temp Control		<input type="checkbox"/> Confirmed <input type="checkbox"/> N/A			
Proven Low Fire Start		<input type="checkbox"/> Confirmed <input type="checkbox"/> N/A			
Supervisory Valve System		<input type="checkbox"/> Confirmed <input type="checkbox"/> N/A			

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High Gas Pressure Switch	<input type="checkbox"/> Installed & tested	<input type="checkbox"/> N/A
Low Gas Pressure Switch	<input type="checkbox"/> Installed & tested	<input type="checkbox"/> N/A
Flow Switch	<input type="checkbox"/> Installed & tested	<input type="checkbox"/> N/A
Low Water Cutoff	<input type="checkbox"/> Installed & tested	<input type="checkbox"/> N/A
Operating Limit Control	<input type="checkbox"/> Installed & tested	<input type="checkbox"/> N/A
High Limit Control(s)	<input type="checkbox"/> Installed & tested	<input type="checkbox"/> N/A
Combustion Air Flow Switch	<input type="checkbox"/> Installed & tested	<input type="checkbox"/> N/A
Recirc Fan Airflow Switch	<input type="checkbox"/> Installed & tested	<input type="checkbox"/> N/A
High Pressure manual reset <input type="checkbox"/> Installed & tested <input type="checkbox"/> N/A  Actual high pressure manual setting _____ Psi		
High Temperature manual reset <input type="checkbox"/> Installed & tested <input type="checkbox"/> N/A  Actual high temperature manual reset setting _____ F or C		

Discharge Air Temp Control <input type="checkbox"/> Installed & tested <input type="checkbox"/> N/A	
Pilot Turn Down Test <input type="checkbox"/> Yes <input type="checkbox"/> NR	
Minimum Turn Down Pressure	
Main Burner Established Within Normal Light Off Time <input type="checkbox"/> Yes <input type="checkbox"/> No	
Burner Lights Reliable with Pilot at Turn Down <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pilot and Sight Tube Adjusted <input type="checkbox"/> Yes <input type="checkbox"/> NR	
Pilot Returned to recommended Setting <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>DFMUA Requirements</b>	
Low Velocity at Profile Plate (Ft/Min) -	Variable Frequency Drive <input type="checkbox"/> Installed & tested <input type="checkbox"/> N/A  Min set point - Max set point -
High Velocity at Profile Plate (Ft/Min) -	Air Balancing Performed <input type="checkbox"/> Yes <input type="checkbox"/> No Report Attached <input type="checkbox"/> Yes <input type="checkbox"/> No
Profile Plate Area (sq. in.) -	Complies with requirements of CSA B149.1 section 7.20  <input type="checkbox"/> Confirmed
Exhaust Interlock Proof Type -  <input type="checkbox"/> Installed & tested	<b>Notes:</b>

### FLUE GAS ANALYSIS – LOW FIRE

Net Flue Temp in °F	Carbon Dioxide in %	Firing Rate <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
Oxygen in %	Carbon Monoxide in PPM	
NOx in PPM	Manifold Pressure:	Excess Air in %
Efficiency in %		Stack Temp in °F
Visual Characteristics of Flame:		

### FLUE GAS ANALYSIS – MID FIRE

Net Flue Temp in °F	Carbon Dioxide in %	Firing Rate <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
Oxygen in %	Carbon Monoxide in PPM	
NOx in PPM	Manifold Pressure:	Excess Air in %
Efficiency in %		Stack Temp in °F
Visual Characteristics of Flame:		

### FLUE GAS ANALYSIS – HIGH FIRE

Net Flue Temp in °F	Carbon Dioxide in %	Firing Rate <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
Oxygen in %	Carbon Monoxide in PPM	
NOx in PPM	Manifold Pressure:	Excess Air in %
Efficiency in %		Stack Temp in °F
Visual Characteristics of Flame:		