

# FORM B1

## EMISSION SOURCE (WOOD, COAL, OIL, GAS, OTHER FUEL-FIRED BURNER)

REVISED 09/22/16

NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate

**B1**

EMISSION SOURCE DESCRIPTION:	EMISSION SOURCE ID NO:
	CONTROL DEVICE ID NO(S):

OPERATING SCENARIO: _____ OF _____	EMISSION POINT (STACK) ID NO(S):
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DESCRIBE USE:     PROCESS HEAT                       SPACE HEAT                       ELECTRICAL GENERATION  
                           CONTINUOUS USE                       STAND BY/EMERGENCY                       OTHER (DESCRIBE): \_\_\_\_\_

HEATING MECHANISM:                       INDIRECT                       DIRECT

MAX. FIRING RATE (MMBTU/HOUR): \_\_\_\_\_

**WOOD-FIRED BURNER**

WOOD TYPE:     BARK     WOOD/BARK     WET WOOD     DRY WOOD     OTHER (DESCRIBE): \_\_\_\_\_

PERCENT MOISTURE OF FUEL: \_\_\_\_\_

UNCONTROLLED                       CONTROLLED WITH FLYASH REINJECTION                       CONTROLLED W/O REINJECTION

FUEL FEED METHOD: \_\_\_\_\_ HEAT TRANSFER MEDIA:     STEAM     AIR     OTHER (DESCRIBE) \_\_\_\_\_

**COAL-FIRED BURNER**

TYPE OF BOILER	IF OTHER DESCRIBE:			
PULVERIZED	OVERFEED STOKER	UNDERFEED STOKER	SPREADER STOKER	FLUIDIZED BED
<input type="checkbox"/> WET BED	<input type="checkbox"/> UNCONTROLLED	<input type="checkbox"/> UNCONTROLLED	<input type="checkbox"/> UNCONTROLLED	<input type="checkbox"/> CIRCULATING
<input type="checkbox"/> DRY BED	<input type="checkbox"/> CONTROLLED	<input type="checkbox"/> CONTROLLED	<input type="checkbox"/> FLYASH REINJECTION	<input type="checkbox"/> RECIRCULATING
			<input type="checkbox"/> NO FLYASH REINJECTION	

**OIL/GAS-FIRED BURNER**

TYPE OF BOILER:     UTILITY     INDUSTRIAL     COMMERCIAL     INSTITUTIONAL

TYPE OF FIRING:     NORMAL     TANGENTIAL     LOW NOX BURNERS     NO LOW NOX BURNER

**OTHER FUEL-FIRED BURNER**

TYPE(S) OF FUEL: \_\_\_\_\_

TYPE OF BOILER:     UTILITY     INDUSTRIAL     COMMERCIAL     INSTITUTIONAL

TYPE OF FIRING: \_\_\_\_\_ TYPE(S) OF CONTROL(S) (IF ANY): \_\_\_\_\_

**FUEL USAGE (INCLUDE STARTUP/BACKUP FUELS)**

FUEL TYPE	UNITS	MAXIMUM DESIGN CAPACITY (UNIT/HR)	REQUESTED CAPACITY LIMITATION (UNIT/HR)

**FUEL CHARACTERISTICS (COMPLETE ALL THAT ARE APPLICABLE)**

FUEL TYPE	SPECIFIC BTU CONTENT	SULFUR CONTENT (% BY WEIGHT)	ASH CONTENT (% BY WEIGHT)

COMMENTS:

**Attach Additional Sheets As Necessary**