



ARD-6 FORM INFORMATION REQUIRED FOR PERMITS FOR INCINERATORS



Air Resources Division/Permitting and Environmental Health Bureau

RSA/Rule: RSA 125-C:12 and Env-A 1700

I. EQUIPMENT INFORMATION – Complete a separate form for each emission unit.

Emission Unit Description: _____

Date Construction Commenced¹: _____ Start-Up Date¹: _____

Gross Heat Input Rating (as shown on nameplate): _____

Maximum Charging Rate: _____ lb/hr _____ tons/day

A. Incinerator Design

1. Primary Burner

Number of Primary Burners

Burner Manufacturer

Gross Heat Input Rating (MMBtu/hr)

Model Number

Serial Number

Temperature Control Setting (°F)

Fuel Type

2. Secondary Burner

Number of Secondary Burners

Burner Manufacturer

Gross Heat Input Rating (MMBtu/hr)

Model Number

Serial Number

Temperature Control Setting (°F)

Fuel Type

3. Type of Unit

- | | | |
|---|---|--|
| <input type="checkbox"/> Modular Starved Air | <input type="checkbox"/> Modular Excess Air | <input type="checkbox"/> Multi-hearth |
| <input type="checkbox"/> Fluidized Bed | <input type="checkbox"/> Controlled Air | <input type="checkbox"/> Mass Burn Rotary Water Wall |
| <input type="checkbox"/> Mass Burn Water Wall | <input type="checkbox"/> Mass Burn Refractory | |
| <input type="checkbox"/> Other (specify): _____ | | |

II. FUEL USAGE INFORMATION (List each fuel utilized by this emission unit):

Fuel Type	Heat Value ⁶	Units	Sulfur Content (%)	Moisture Content (%) ⁶	Maximum Fuel Flow Rate	Units	Maximum Gross Heat Input Rate	Units
#2 Fuel Oil (Example)	140,000 (Example)	Btu/gal (Example)	0.0015 (Example)	N/A (Example)	20 (Example)	gal/hr (Example)	2.74 (Example)	MMBtu/hr (Example)

III. UNCONTROLLED AIR POLLUTANT EMISSIONS (list emissions that result from the burning of each fuel and waste utilized by the emission unit prior to add on controls – use additional sheets if necessary)

Pollutant	Emission Factor	Units	Emission Factor Source ⁷	Actual (lb/hr)	Potential (lb/hr)	Actual (tpy)	Potential (tpy)

Provide an example of the calculations used to determine uncontrolled air pollutant emissions, if applicable:

IV. POLLUTION CONTROL EQUIPMENT

Not Applicable

Note: If the emission unit utilizes more than one type of pollution control equipment, provide data for each type of equipment.

A. Type of Equipment

- cyclone (____ inch diameter)
- multiple cyclone (____ inch diameter)
- electrostatic precipitator
- spray tower
- venturi scrubber
- afterburners (incineration)
- selective catalytic reduction
- other (specify): _____
- carbon absorption
- activated carbon injection
- baghouse/fabric filter
- selective non-catalytic reduction
- spray drying (wet limestone injection)
- dry sorbent injection
- reburn

For each control device, include an Air Pollution Control Equipment Monitoring Plan pursuant to Env-A 810.

B. Controlled Air Pollution Emissions (list emissions that result from the burning of each fuel and waste utilized by the emission unit after all add on controls – use *additional sheets if necessary*)

Pollutant	Controlled Emission Factor	Units	Emission Factor Source ⁷	Actual (lb/hr)	Potential (lb/hr)	Actual (tpy)	Potential (tpy)

Provide an example of the calculations used to determine controlled air pollutant emissions, if applicable:

ARD-6 FORM INFORMATION INSTRUCTIONS

- 1 If exact date is unknown for Date Construction Commenced or Start-Up Date, you may use 01/01/year. Date Construction Commenced refers to the date the owner or operator has entered into a contractual obligation to undertake and complete a continuous program of construction, reconstruction, or modification of the emission unit. Start-Up Date refers to the date the emission unit is first operated at the facility.
- 2 Waste Types 0-7 are defined in Env-A 100.
- 3 Examples of Inside Diameter or Area at Stack Exit: Diameter at discharge point of convergence cone, if applicable
- 4 Flapper valves and other devices which do not restrict the vertical exhaust flow while the emission unit is operating are not considered obstructions or restrictions.
- 5 Examples of Exhaust Orientation: Vertical, Horizontal, Downward
Note: for a stack to be considered vertical and unobstructed, there shall be no impediment to vertical flow, and the exhaust stack extends 2 feet higher than any roofline within 10 horizontal feet of the exhaust stack
- 6 Moisture content needed for solid fuels only.
- 7 Emission factor sources may include:
 - Continuous Emissions Monitor (CEM)
 - Stack Test (Provide Date)
 - Vendor Guaranteed Rates (Provide Documentation)
 - AP-42 Emission Factors
 - Material Balance (Provide Sample Calculation)
 - Engineering Estimate