

Attachment E203: Incinerators or Flares Supplemental Application Form

Applicant Name: _____
Unit No.: _____

DEEP USE ONLY
App. No.: _____

Complete this form in accordance with the [instructions](#) (DEEP-NSR-INST-203) to ensure the proper handling of your application. Print or type unless otherwise noted.

Complete a separate form for *each* incinerator or flare.

Note: If you are applying for a human remains crematory or a small animal crematory, please use the appropriate form: [Attachment E203A: Crematory Units](#) (DEEP-NSR-APP-203A).

Note: Complete Parts I – IV for an incinerator unit, Parts I and V for flares.

Questions? Visit the [Air Permitting](#) web page or contact the Air Permitting Engineer of the Day at DEEP.BAM.AirPermits@ct.gov or 860-424-4152.

Part I: General

Manufacturer and Model Number	
Construction Date	
Is this unit subject to Title 40 CFR Part 60, NSPS?	<input type="checkbox"/> No <input type="checkbox"/> Yes, Subpart(s)
Is this unit subject to Title 40 CFR Part 63, MACT?	<input type="checkbox"/> No <input type="checkbox"/> Yes, Subpart(s)

Part II: Incinerator Information

Maximum Rated Capacity	pounds per hour <i>or</i> tons per hour
Type of Incinerator	<input type="checkbox"/> Single Chamber <input type="checkbox"/> Multiple Chamber <input type="checkbox"/> Other (specify):
Maximum Quantity of Waste Processed	tons per year
	tons per day
	pounds per hour
Operating Schedule	hours/day hours/year
Combustion Temperature	Primary °F Secondary °F
Residence/Retention Time	Primary seconds Secondary seconds
Effective Grate Area	ft ²
Overall Destruction Efficiency	%

Part III: Incinerator Waste Content

Type of Waste Burned	Heat Content	Percent By Weight		
Paper				
Cardboard				
Wood				
Plastic (indicate chemical composition)				
Rubber (indicate chemical composition)				
Garbage				
Biomedical Waste				
Gaseous, Liquid, or Semi-solid Wastes				
Incombustibles				
Municipal Sludge				
Livestock Remains				
Other (specify)				
Waste Material Ultimate Analysis (Dry Basis)	% Nitrogen	% Sulfur	% Chlorine	
	% Hydrogen	% Carbon	% Fluorine	
	% Oxygen	% Ash		
	% Other (specify):			

Part IV: Incinerator Auxiliary Burners

Burner Manufacturer and Model Number		
Number of Burners		
Burner Maximum Design Heat Input	Burner No. 1	BTU per hour <input type="checkbox"/> Primary <input type="checkbox"/> Secondary
	Burner No. 2	BTU per hour <input type="checkbox"/> Primary <input type="checkbox"/> Secondary
	Burner No. 3	BTU per hour <input type="checkbox"/> Primary <input type="checkbox"/> Secondary

Fuel Type	Percent by Weight			Higher Heating Value (BTU)	Maximum Hourly Firing Rate	Maximum Annual Fuel Usage	Units (gal or ft ³)
	Sulfur	Ash	N ₂				

Part V: Flares

Flares	
Flare Design	<input type="checkbox"/> Candlestick <input type="checkbox"/> Enclosed
Location	<input type="checkbox"/> Landfill <input type="checkbox"/> Anaerobic Digestion Facility <input type="checkbox"/> Other:
Pollutant(s) Controlled	
Overall Destruction Efficiency	%
Operating Schedule	hours/day hours/year
Maximum Heat Input Rate	MMBtu/hr
Maximum Firing Rate	cf/hr
Maximum Annual Fuel Usage	cf
Mechanism to Monitor Flame Presence	
Minimum Combustion Temperature	°F
Residence Time	seconds
Design Gas Flow Rate Range	scfm
Proposed Gas Generation Rate	scfm
Maximum Methane Content of Gas	% by volume
Minimum Methane Content of Gas	% by volume
Average Methane Content of Gas	% by volume
Maximum H₂S Content of Gas	ppm by volume
Heat Content of Gas	BTU/scfm
Supplemental Fuel Type (if used)	
Maximum Hourly Supplemental Fuel Firing Rate	cf/hr
Maximum Annual Supplemental Fuel Usage	cf/yr

Part VI: Attachments

Please check the attachments being submitted as verification that all applicable attachments have been submitted with this application form. When submitting such documents, please label the documents as indicated in this Part (e.g., Attachment E203-A, etc.) and be sure to include the applicant's name.

- Attachment E203-A: *Process Information and Flow Diagram* – Submit a process flow diagram indicating all related equipment, air pollution control equipment and stacks, as applicable. Identify all materials entering and leaving each such device indicating quantities and parameters relevant to the proper operation of the device. Indicate all monitoring devices and controls. **REQUIRED**
- Attachment E203-B: *Waste Heat Content* - For each type of waste processed in Part III, submit documentation of the heat content per unit of waste and specify the measurement units, e.g., BTU per pound. **IF APPLICABLE**
- Attachment E203-C: *Waste Material Ultimate Analysis* - For the total waste to be processed in Part III, submit a waste analysis (e.g., chemical lab analysis) as documentation of the percentages (by weight on a dry basis) of nitrogen, sulfur, hydrogen, carbon, oxygen, ash, fluorine, chlorine and any other element(s). Specify any other elements if present, e.g. halogens. **IF APPLICABLE**
- Attachment E203-D: *EPA LandGEM Report* – Submit an EPA LandGEM report showing all inputs and results from the report if operating a landfill flare. **IF APPLICABLE**
- Attachment E203-E: *Manufacturer's Information for Flare*