Attachment E203: Incinerators or Landfill 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 landfill flare.

Note: Complete Parts I – IV for an incinerator unit or Parts I and V for a landfill flare.

Questions? Visit the Air Permitting web page or contact the Air Permitting Engineer of the Day at 860-424-4152.

Part I: General

Manufacturer and Model Number	
Construction Date	
Is this unit subject to Title 40 CFR Part 60, NSPS?	☐ No ☐ Yes, Subpart(s)
Is this unit subject to Title 40 CFR Part 63, MACT?	☐ No ☐ Yes, Subpart(s)

Part II: Incinerator Information

Maximum Rated Capacity	pounds per hour *or*		tons per hour	
Type of Incinerator	☐ Single Chamber ☐ Other (specify):		☐ Multiple Chamber	
Maximum Quantity of Waste Processed	tons per year			
	tons per day			
	pounds per hour			
Operating Schedule	hours/day		hours/year	
Combustion Temperature	Primary	^{o}F	Secondary	^{o}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		
Human Remains		
Animal Remains		
Other (specify)		
Waste Material Ultimate Analysis (Dry Basis)	% Nitrogen % Hydrogen % Oxygen % Other (specify):	% Sulfur % Carbon % Ash % Chlorine % Fluorine

Part IV: Incinerator Auxiliary Burners

Burner Manufacturer and Model Number		
Number of Burners		
Burner Maximum Design Heat Input	**Burner No. 1**	BTU per hour ☐ Primary ☐ Secondary
	Burner No. 2	BTU per hour ☐ Primary ☐ Secondary
	Burner No. 3	BTU per hour ☐ Primary ☐ 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: Landfill Flares

Flare Design	☐ Open ☐ Enclosed
Operating Schedule	hours/day hours/year
Design Landfill Gas Flow Rate Range	scfm
Actual Landfill Gas Generation Rate	scfm
Maximum Methane Content of Landfill Gas	%
Average Methane Content of Landfill Gas	%
Heat Content of Landfill Gas	BTU/scfm
Supplemental Fuel Type (if used)	
Maximum Hourly Supplemental Fuel Firing Rate	cf/hr
Maximum Annual Supplemental Fuel Usage	cf/yr
Combustion Temperature	^{o}F
Residence Time	seconds
Flare Exit Height	feet
Overall Destruction Efficiency	%

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**