

Attachment E202: Fuel Burning Equipment Supplemental Application Form

Applicant Name: _____
 Unit No.: _____

DEEP USE ONLY
App. No.: _____

Complete this form in accordance with the [instructions](#) (DEEP-NSR-INST-202) to ensure the proper handling of your application. Print or type unless otherwise noted.

Note: Certain external combustion units may be operated pursuant to RCSA section 22a-174-3b or -3c in lieu of a permit to construct and operate pursuant to RCSA section 22a-174-3a.

Complete a separate form for *each* fuel burning source.

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

Part I: General

Type of Unit (<i>check one</i>)	<input type="checkbox"/> Boiler <input type="checkbox"/> Heater/Furnace <input type="checkbox"/> IC Engine <input type="checkbox"/> Turbine <input type="checkbox"/> Duct Burner <input type="checkbox"/> Other (specify):
Manufacturer and Model Number	
Construction Date	
Manufacture 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)
Maximum Design Heat Input	MMBtu/hr
Typical Heat Input	MMBtu/hr
Maximum Operating Schedule	hours/day hours/year
Percentage of Annual Use in Each Category	Space Heat: %
	Process Heat: %
	Power: %

Part II: Fuel Information

Fuel Type	% Sulfur by weight	Higher Heating Value (BTU)	Maximum Hourly Firing Rate	Maximum Annual Fuel Usage	Units (gal or ft ³)

Note: Parts III and IV are unit specific. Complete only that section which applies to the subject unit.

Part III: External Combustion Unit Information (Boiler or Heater/Furnace)

Burner Manufacturer and Model Number	
Number of Burners	
Burner Maximum Rated Capacity (per burner)	MMBtu/hr
Firing Type and Method Information (Choose all that apply)	
Oil/Gas Fired Unit	<input type="checkbox"/> Tangentially Fired <input type="checkbox"/> Horizontally Opposed (normal) Fired <input type="checkbox"/> Other (specify):
Pulverized Coal Fired Unit	<input type="checkbox"/> Dry Bottom <input type="checkbox"/> Wet Bottom <input type="checkbox"/> Wall Fired <input type="checkbox"/> Tangentially Fired <input type="checkbox"/> Horizontally Fired <input type="checkbox"/> Vertically Fired <input type="checkbox"/> Other (specify):
Coal/Wood Fired Stoker Unit	<input type="checkbox"/> Overfeed <input type="checkbox"/> Underfeed <input type="checkbox"/> Spreader <input type="checkbox"/> Hand Fed <input type="checkbox"/> IGCC (Integrated Gasification Combined Cycle) <input type="checkbox"/> Other (specify):
Coal/Wood Fired Fluidized Bed Combustor	<input type="checkbox"/> Circulating Bed <input type="checkbox"/> Bubbling Bed <input type="checkbox"/> Cyclone Furnace <input type="checkbox"/> Other (specify):
Other Coal/Wood Fired Unit	<input type="checkbox"/> Suspension Firing <input type="checkbox"/> Dutch Oven/Fuel Cell Oven <input type="checkbox"/> Over Fire Air <input type="checkbox"/> Other (specify):

Part IV: Internal Combustion (IC) Unit Information (IC Engine or Turbine)

IC Engine Information	
IC Engine Operation <i>(check one)</i>	<input type="checkbox"/> Emergency Only <input type="checkbox"/> Emergency/Non-Emergency
IC Engine Ignition <i>(check one)</i>	<input type="checkbox"/> Compression <input type="checkbox"/> Spark
IC Engine Type <i>(check one)</i>	<input type="checkbox"/> 4-Stroke Rich Burn (4SRB) <input type="checkbox"/> 4-Stroke Lean Burn (4SLB) <input type="checkbox"/> 2-Stroke Lean Burn (2SLB)
IC Engine Brake Horsepower	HP
IC Engine Power Output	MW
Turbine Information	
Turbine Operation <i>(check one)</i>	<input type="checkbox"/> Emergency Only <input type="checkbox"/> Emergency/Non-Emergency
Turbine Type <i>(check one)</i>	<input type="checkbox"/> Simple Cycle <input type="checkbox"/> Combined Cycle
Turbine Power Output	MW

Part V: Combustion Controls Information (Check all that apply)

Type of Combustion Control(s) or Modifications(s)	<input type="checkbox"/> Low NOx Burners	<input type="checkbox"/> Fly Ash Reinjection
	<input type="checkbox"/> Flue Gas Recirculation	<input type="checkbox"/> Reburn
	<input type="checkbox"/> Selective Catalytic Reduction	<input type="checkbox"/> Selective Non-Catalytic Reduction
	<input type="checkbox"/> Coal Reburn	<input type="checkbox"/> Oxidation Catalyst
	<input type="checkbox"/> Gas Reburn	<input type="checkbox"/> 3-way Catalyst
	<input type="checkbox"/> Lean Burn	<input type="checkbox"/> Over Fire Air
	<input type="checkbox"/> Rich Burn	<input type="checkbox"/> Biased Burner Firing
	<input type="checkbox"/> Low Excess Air	<input type="checkbox"/> Burners Out of Service
	<input type="checkbox"/> Other (specify):	<input type="checkbox"/> None

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 E202-A, etc.) and be sure to include the applicant's name.

- Attachment E202-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 E202-B: *Manufacturer Information* - Submit copies of the manufacturer specification sheets for the unit, the air pollution control equipment and the monitoring systems. **REQUIRED**

- Attachment E202-C: *Turbine Emissions Profiles* - Submit copies of manufacturer's emissions profile data for steady state and transient operation of the turbine. **IF APPLICABLE**