

GOP-007 Boiler or Heater Greater than or Equal to 1 MMBTU/hr and Less than 5 MMBTU/hr

Please note that the system will log you out after 15 minutes of inactivity. If entering a large amount of data, please click on the Save button periodically to save data and reset the 15 minute timer. From the Certification page, you can use the menu on the left-hand side of the page to return to this screen and add additional data if necessary.

Section B: Reason for Applying

Click one of the following buttons to confirm that the proposed equipment meets the requirements of GOP-007:

- ☒ A single boiler or heater currently not permitted in a facility's approved Title V Operating Permit, greater than or equal to 1 MMBTU/hr and less than 5 MMBTU/hr;
- ☐ A single boiler or heater currently permitted in a facility's approved Title V Operating Permit, greater than or equal to 1 MMBTU/hr and less than 5 MMBTU/hr, that is a modification for the installation of a replacement burner or fuel switch to a cleaner fuel burner, combusting natural gas, propane or No. 2 fuel oil.

Section C: Inventories

The Applicant may review the current list of Equipment (E) Numbers, Emission Unit (U) Numbers and Emission Point (PT) Numbers, on record for the Facility and input a unique Number. **Note that you may leave these fields blank and the department will automatically assign the next available number for these items.**

Note: The Applicant does not need to complete the NJID fields but must fill out all required facility designations and descriptions. Required fields are indicated by an asterisk (*).

Please note that numbers should not contain any characters other than a decimal point (i.e., 1000.0 not 1,000.0). Failure to do so could result in an errored submission.

Equipment Associated with this General Operating Permit

E NJID #	*Facility Designation	*Install. Date (mm/dd/yyyy)	Last Mod. Date (mm/dd/yyyy)	*Equipment Type	*Equipment Make	*Equipment Manufac.	*Equipment Model	*Max Rated Heat Input (MMBTU/hr (HHV))	Boiler Type

Review Equipment

Boiler Usage

Is the Boiler using (check all that apply):

- ☐ Low NOx Burner Type:
- ☐ Staged Air Combustion
- ☐ Flue Gas Recirculation Amount(%):

***Fuel Type**

Select the Fuel Type associated with this piece of equipment from the options below:

***Basis of PTE Emission Limits**

Select one of the following options for the Basis of PTE Emission Limits:

Emission Unit Associated with this General Operating Permit

U NJID #	*Facility Designation
<input type="text"/>	<input type="text"/>

Review Emission Units

Emission Point Associated with this General Operating Permit

PT NJID #	*Facility Designation	*Configuration	^*PT Equiv. Diam. (in.)	*Height (ft.)	*Distance to Property Line (ft.)	*Exhaust Temp. (deg. F)	*Exhaust Vol. (acfm)	*Discharge Direction

Review Emission Points

^PT Equivalent Diameter Calculator

Use the calculator below to determine the PT Equivalent Diameter above from length and width measurements:

Length (in.)	Width (in.)	PT Equivalent Diameter (in.)
<input type="text"/>	<input type="text"/>	<input type="text"/>

Potential to Emit (PTE) Calculations

PLEASE ENTER THE 'MAX NATURAL GAS USAGE (MMCF/YR)'. THE 'HOURS/YEAR NATURAL GAS' IS CALCULATED AUTOMATICALLY BASED ON THE 'MAX NATURAL GAS USAGE (MMCF/YR)' VALUE ENTERED, 'HEATING VALUE NATURAL GAS (BTU/SCF)' AND 'MAX RATED HEAT INPUT (MMBTU/HR (HHV))'.

Max Rated Heat Input (MMBTU/hr (HHV))	*Max Natural Gas Usage (MMCF/yr)	Hours/Year Natural Gas	Heating Value Natural Gas (BTU/scf)
<input type="text"/>	<input type="text"/>	0	1020

PTE Calculation Results

THE 'EMISSION LIMITS' IN THIS TABLE ARE CALCULATED AUTOMATICALLY BASED ON 'EMISSION FACTORS (USEPA AP-42)', 'MAX RATED HEAT INPUT (MMBTU/HR (HHV))' AND 'MAX NATURAL GAS USAGE (MMCF/YR) OPERATION'.

Emission Factors (USEPA AP-42)	VOC	NOx	CO	SO2	TSP	PM10
Pounds/Million Cubic Feet	5.5	100	84	0.6	7.6	7.6

Emission Limits	VOC ¹	NOx	CO	SO2 ¹	TSP ¹	PM10 ²
Pounds/Hour (lb/hr)	D	0.489	0.411	D	D	D
Tons/Year (tpy)	D	0.00	0.00	D	D	D

¹The 'D' in the lb/hr and tpy emission limits means the value is "de minimis." ²De minimis' emissions are below the reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22.

Section D: Permitting Options

This General Operating Permit covers a single boiler or heater.

The table below lists the appropriate Permitting Options based upon 'Fuel Type' and 'Basis of PTE Emissions' (based on 8,760 hours/year or annual fuel limit). The appropriate option will be selected once the corresponding values in the tables above are entered/selected.

If you do not see a check mark under the "Selected" column for any single row below, please review the entries above to ensure they are correct.

Selected	Permitting Option	Description
	GOP-007-1	'Natural Gas Only' or 'Natural Gas with No. 2 Fuel Oil as Backup', based on 8,760 hours per year operation.
	GOP-007-2	'Propane Only' or 'Propane with No. 2 Fuel Oil as Backup', based on 8,760 hours per year operation.
	GOP-007-3	'No. 2 Fuel Oil Only' or 'Kerosene Only', based on 8,760 hours per year operation.
	GOP-007-4	'Natural Gas Only' or 'Natural Gas with No. 2 Fuel Oil as Backup', based on an annual fuel limit. A 'Fuel Totalizer' is required to monitor and record the total amount of fuel burned each month during operation, for any 12 consecutive months.
	GOP-007-5	'Propane Only' or 'Propane with No. 2 Fuel Oil as Backup', based on an annual fuel limit. A 'Fuel Totalizer' is required to monitor and record the total amount of fuel burned each month during operation, for any 12 consecutive months.
	GOP-007-6	'No. 2 Fuel Oil Only' or 'Kerosene Only', based on an annual fuel limit. A 'Fuel Totalizer' is required to monitor and record the total amount of fuel burned each month during operation, for any 12 consecutive months.