

**GOVERNMENT OF THE DISTRICT OF COLUMBIA**  
Department of Energy and Environment

**APPLICATION FOR PERMIT TO CONSTRUCT/OPERATE  
A BOILER OR OTHER EXTERNAL COMBUSTION EQUIPMENT**

**Before completing this application:** Be advised that in most cases fuel burning equipment having a capacity of five million (5,000,000) or fewer BTUs per hour of heat input and which uses for fuel only gaseous fuels or distillate oils does not require a permit, provided the source does not trigger major source Non-attainment New Source Review (NNSR). If this is your situation, you need not complete this application. However if you are installing multiple units and/or other types of units as part of a project, you are advised to calculate the facility-wide emissions to ensure NNSR is not triggered. If you need assistance, please call (202) 535-1747 for more information.

**I. Facility and Applicant Information**

1. \_\_\_\_\_  
Full Legal Name of Applicant/Organization
  
2. \_\_\_\_\_  
Type of Organization
  
3. \_\_\_\_\_  
Name of Owner(s) or Principal Partner(s) of Above Organization
  
4. \_\_\_\_\_  
Mailing Address of Applicant (No., Street, City, State, Zip)
  
5. \_\_\_\_\_  
Street Address of Facility (if different from Mailing Address)
  
6. Owner/Responsible Official Name: \_\_\_\_\_  
Owner/Responsible Official Title: \_\_\_\_\_  
Phone No. \_\_\_\_\_ E-mail: \_\_\_\_\_
  
7. Contact Person: \_\_\_\_\_  
Contact Person Title: \_\_\_\_\_  
Phone No. \_\_\_\_\_ E-mail: \_\_\_\_\_
  
8. Type of Project:  New Construction       Renewal  
  
 Initial Permitting of Existing Source       Change Owner/Transfer of Existing Permit  
*Note that replacement of an existing source is considered "New Construction".*

**Application for Permit to Construct/Operate a Boiler or Other External Combustion Equipment**

Page 2

9. For renewal or transfer, provide the existing permit number and expiration date:

\_\_\_\_\_

10. Describe the facility at which this equipment will be located:

\_\_\_\_\_

11. Primary industrial codes for the major activity at this location :

SIC: \_\_\_\_\_ NAICS: \_\_\_\_\_

**II. General Equipment Information**

1. Equipment Name/Identification: \_\_\_\_\_

2. Manufacturing Information:

\_\_\_\_\_  
Boiler Order Date

\_\_\_\_\_  
Boiler Manufacture Date  
(if available)

\_\_\_\_\_  
Boiler Model Number

\_\_\_\_\_  
Boiler Serial Number  
(if available)

3. Primary fuel burned in this unit: *Check one:*

Natural Gas    LPG    Diesel Fuel    No. 2 Fuel Oil    Other \_\_\_\_\_

Heat input rating on primary fuel (MMBTU/hr): \_\_\_\_\_

Rated fuel consumption rate (per hour): \_\_\_\_\_ *Specify units*

Maximum quantity/year: \_\_\_\_\_ *Specify units*

4. Secondary fuel burned in this unit (if applicable): *Check one:*

Natural Gas    LPG    Diesel Fuel    No. 2 Fuel Oil    Other \_\_\_\_\_

Heat input rating on secondary fuel (MMBTU/hr): \_\_\_\_\_

Rated fuel consumption rate (per hour): \_\_\_\_\_ *Specify units*

Maximum quantity/year: \_\_\_\_\_ *Specify units*

**Application for Permit to Construct/Operate a Boiler or Other External Combustion Equipment**

Page 3

Is the applicant requesting a limitation on the operation of the unit on secondary fuel to only be used in cases of primary gaseous fuel interruption/curtailment plus up to 48 hours per calendar year for periodic testing, maintenance, or operator training on liquid fuel to avoid applicability of 40 CFR 63, Subpart JJJJJJ or to limit applicability of 40 CFR 63, Subpart DDDDDD? Yes  No

5. Does the unit simultaneously fire multiple fuels? Yes  No

6. Fuel oil properties, if applicable:

Maximum Sulfur Content (%): \_\_\_\_\_ Heat Content (BTU/fuel unit): \_\_\_\_\_

7. Type of oil burner, if applicable

Steam atomization     Air atomization     Pressure or Gun type

Other \_\_\_\_\_

8. Boiler type:  Fire tube     Water tube     Other \_\_\_\_\_

9. Furnace volume (ft<sup>3</sup>): \_\_\_\_\_

10. Does this boiler have an oxygen trim system to control the air-to-fuel ratio?    Yes    No  
If yes, please attach documentation of this system to this application.

11. Describe any gas cleaning or emission control device(s) on this unit (attach specifications as appropriate):  
\_\_\_\_\_

12. Estimated efficiency of control device (if applicable): \_\_\_\_\_ % for \_\_\_\_\_ (pollutant)

13. Stack height above ground: \_\_\_\_\_ ft    Inner diameter at exit: \_\_\_\_\_ ft

Exit gas volumetric rate: \_\_\_\_\_ cfm    Gas temperature at exit: \_\_\_\_\_ °F

Distance of stack from nearest property boundary: \_\_\_\_\_ ft

Exit gas velocity: \_\_\_\_\_ ft/s    Exit gas moisture content: \_\_\_\_\_ %

Exit gas volume through stack: \_\_\_\_\_ acfm

Describe the location and surroundings of the stack outlet:  
\_\_\_\_\_

14. Date construction/installation of unit began or is planned to begin: \_\_\_\_\_

15. Date construction/installation of unit completed (if applicable): \_\_\_\_\_

# Application for Permit to Construct/Operate a Boiler or Other External Combustion Equipment

Page 4

## III. Emissions

- Please complete the following “Potential to Emit” table (except as noted below):

*Note: It is acceptable to provide calculations in an alternate format as an attachment to this application. Please ensure that any submittal provides sufficient information to allow the application reviewer to reproduce the calculations from the source material. Please also ensure that any alternative submittal provides substantially the same information requested in the following table.*

*If potential emissions are provided in an attachment, please check the following box:*

<b>Table: Potential to Emit<sup>1</sup></b>						
<b>Pollutant</b>	<b>Emission Factor<sup>2</sup></b>	<b>Units of Emission Factor<sup>3</sup></b>	<b>Emission Rate (lb/hr)</b>	<b>Maximum Uncontrolled Emissions (Ton/yr)</b>	<b>Emission Control Efficiency<sup>4</sup> (%)</b>	<b>Maximum Controlled Potential Emissions (Ton/yr)<sup>5</sup></b>
<b>NO<sub>x</sub></b>						
<b>SO<sub>x</sub></b>						
<b>VOC</b>						
<b>CO</b>						
<b>PM Total<sup>6</sup></b>						
<b>PM10 (if necessary)<sup>7</sup></b>						

<sup>1</sup> “Potential to Emit” is the maximum capacity of a stationary source to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the source to emit a pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design only if the limitation or the effect it would have on emissions is enforceable as a practical matter. Secondary emissions do not count in determining the potential to emit of a stationary source. [20 DCMR § 199]

<sup>2</sup> The emission factor should reflect the maximum emissions expected from the unit when operating properly.

<sup>3</sup> Examples of commonly used units are lb/million BTU of heat input, fuel usage rate, and heat content of the fuel.

<sup>4</sup> If this information is unknown, or no air pollution control equipment is installed, indicate “Not Applicable or N/A”.

<sup>5</sup> See Section IV.3 of this application for additional requirements if these values exceed certain regulatory thresholds.

<sup>6</sup> PM Total includes both filterable and condensable particulate matter fractions.

<sup>7</sup> PM10 (filterable plus condensable) only needs to be reported on this form if PM total maximum controlled potential emissions equals or exceeds 5 tons per year.

Cite the source(s) and Basis of the emission factors and on a separate page include sample calculations:

**Application for Permit to Construct/Operate a Boiler or Other External Combustion Equipment**

Page 5

- Emergency Episode Procedures: How do you intend to comply with the requirements for reduced emissions during an air pollution episode (see 20 DCMR §401)?

Alert: \_\_\_\_\_

Warning: \_\_\_\_\_

Emergency: \_\_\_\_\_

- Are you requesting any additional special operating limitations, such as limits on your potential to emit? Yes  No  If so, please describe:

\_\_\_\_\_

**IV. Notes and Required Attachments**

- Please attach a printed copy of any spreadsheet of calculations used in this application. The assigned permit writer may require submittal of the electronic version of the spreadsheet to review calculations.
- Please attach a copy of the manufacturer’s specifications for the unit and any other appropriate supporting documentation, including the basis for manufacturer-specified emission factors.
- If “Maximum Controlled Potential Emissions” in the table in Condition III.1 equals or exceeds the following thresholds (without netting), take the actions specified:

Pollutant	Threshold (tons/year)	Action
CO	100	Prepare an applicability analysis pursuant to 20 DCMR §204 and, where applicable, a plan to comply.
NO <sub>x</sub>	25	
VOC	25	
SO <sub>2</sub>	40	
PM10	15	
PM2.5	10	
Any other pollutant and associated threshold specified in the definition of “significant” in 20 DCMR §299		
VOC	5	
NO <sub>x</sub>		
SO <sub>2</sub>		
PM10		
PM2.5		
Aggregate of HAPS listed in §112 of the Clean Air Act		

# Application for Permit to Construct/Operate a Boiler or Other External Combustion Equipment

Page 6

4. AQD may require submission of additional information beyond what is requested on this form if needed to evaluate regulatory applicability. If you are aware of complex regulatory issues related to this project, AQD recommends that you proactively attach a regulatory review document to explain your understanding of the applicability of any relevant regulations. This is likely to simplify and thereby hasten review of the application.
5. Deviations from submitted plans and specifications are not permissible without securing formal approval from AQD via an application update request and re-approval, if already approved.
6. Please attach a copy of a recent “Certificate of Clean Hands” which can be obtained from [mytax.dc.gov](http://mytax.dc.gov).
7. Please submit the complete application and applicable supporting documentation online at: <https://octo.quickbase.com/db/brqt582ud> or by scanning the QR code below.



## V. Applicant Certification:

I hereby certify, under penalty of D.C. Official Code § 8-101.05e, that I am authorized to submit this application on behalf of the applicant and that the statements contained herein are true and correct to the best of my knowledge. I further certify that all attached information and previously submitted information referenced in this application remains true, correct, and current, to the best of my knowledge.

Authorized Signature:

\_\_\_\_\_  
Owner/Responsible Official Signature

\_\_\_\_\_  
Print Name and Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Mailing Address of Owner/Responsible Official if Different From I.4 above

Report Fraud, Waste, Abuse, and Mismanagement to the District of Columbia Office of the Inspector General.  
Confidential Toll Free Hotline: 1-800-521-1639 or 202-724-TIPS (8477). Email: [hotline.oig@dc.gov](mailto:hotline.oig@dc.gov)