

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

**APPLICATION FOR SOURCE CATEGORY PERMIT APPROVAL TO CONSTRUCT  
AND/OR OPERATE A NATURAL GAS FIRED EMERGENCY ENGINE SUBJECT TO  
NSPS SUBPART JJJJ**

*Instructions: Please complete a separate copy of this form for each covered generator.*

**I. Applicability** (Check all that are applicable)

- The equipment consists of a natural gas fired emergency generator set or other natural gas fired emergency engine.
- The equipment is stationary (i.e., it will remain in place for greater than 12 months).
- The equipment is to be used primarily for emergency purposes and will not participate in a voluntary demand reduction program or any other interruptible power supply arrangement with a utility, other market participant, or system operator (demand response).
- Non-emergency operations (except maintenance and testing) will not exceed 50 hours per year and will comply with Condition IV(c)(2) of the attached source category permit.
- The equipment will operate for fewer than 500 hours in any given 12 month period for all purposes, combined.
- The equipment's potential to emit (PTE) oxides of nitrogen (NO<sub>x</sub>) is less than 25 tons per year (TPY). See the table in Section IV of this application to calculate PTE from this particular unit and sum NO<sub>x</sub> emissions from all permit applications related to this project.
- Check this box if any of the following is true:
  1. This application is for existing equipment installed before January 1, 2014;
  2. This application is for equipment that has been or will be installed after January 1, 2014 and is no more than one model year older than the year of installation (e.g., if it is installed in calendar year 2015, it is no older than a model year 2014 unit.); or
  3. The potential to emit NO<sub>x</sub> from the equipment, assuming 500 hours per year of operation, is less than 5 TPY. (See Section IV of this application for calculation procedures.)
- The equipment will be constructed and operated in compliance with the "Source Category Permit to Construct and/or Operate a Minor Source Natural Gas Fired Emergency Generator Set Subject to NSPS Subpart JJJJ in the District of Columbia".

**APPLICATION FOR SOURCE CATEGORY PERMIT COVERAGE  
Natural Gas-Fired Emergency Engines Subject to NSPS Subpart JJJJ**

Page 2 of 6

Check this box if any of the following three items is applicable and indicate (by number) which one is applicable here: \_\_\_\_\_

1. The maximum engine power is less than or equal to 25 horsepower (HP) [19 mechanical kilowatts (kWm)] and it was manufactured on or after July 1, 2008;
2. The manufacturer participates in the voluntary manufacturer certification program described in 40 CFR 60, Subpart JJJJ and the date of manufacture of the emergency engine is after January 1, 2009; or
3. The emergency engine was ordered after June 12, 2006, was manufactured on or after January 1, 2009, and has a maximum engine power greater than 25 HP (19 kWm).

If you have checked all of the boxes above, you are eligible to apply for coverage under this source category permit. Please complete the remainder of this form. Note that your coverage under this source category permit is still subject to Air Quality Division (AQD) approval. AQD may deny approval under this permit if it deems that further review is necessary due to special or unique circumstances related to a given application. Approval will occur either by active acknowledgement by AQD or by passive approval which will occur 45 days after submission of the complete application to AQD unless AQD objects to the approval in writing in that time.

If you are not eligible for coverage under this source category permit, you may still be eligible for a standard source-specific permit. Please contact AQD at (202) 535-2250 to discuss alternate permitting options or check the AQD website (<http://doee.dc.gov/air>) for the appropriate application forms.

If you have questions about your eligibility or how to complete this application, please contact AQD at (202) 535-2250.

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**II. 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)

**APPLICATION FOR SOURCE CATEGORY PERMIT COVERAGE**

**Natural Gas-Fired Emergency Engines Subject to NSPS Subpart JJJJ**

Page 3 of 6

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/Transfer of Existing Permit  
 Initial Permitting of Existing Source

*Note that replacement of an existing source is considered "New Construction".*

9. For renewal or transfer of coverage from a standard permit, provide the existing permit number and expiration date:

\_\_\_\_\_

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

**III. General Equipment Information**

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

2. Engine type:       Reciprocating       Turbine       Other

If "Other", describe: \_\_\_\_\_

3. Fuel type: \_\_\_\_\_

4. Rated fuel consumption: \_\_\_\_\_ CF/hr

5. Engine is used for:       Routine operational use       Emergency or back-up use only

*Note: If the unit is to be used in a load response program or for peak shaving, please check "Routine operational use" and attach an explanation of the use(s) of the unit. Also note that only engines used in emergency or back-up capacities are eligible for coverage under this source category permit.*

**APPLICATION FOR SOURCE CATEGORY PERMIT COVERAGE  
Natural Gas-Fired Emergency Engines Subject to NSPS Subpart JJJJ**

Page 4 of 6

6. Rated generator electrical output: \_\_\_\_\_ kW/kWe  
*Note: Enter n/a if your engine is not associated with a generator*
7. Maximum engine power: \_\_\_\_\_  HP or  kWm (choose units) @ \_\_\_\_\_ RPM
8. 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
9. Date construction/installation of engine began or is planned to begin: \_\_\_\_\_
10. Date construction/installation of engine completed (if applicable): \_\_\_\_\_
11. Manufacturing Information:

\_\_\_\_\_  
Engine Order Date

\_\_\_\_\_  
Engine Manufacture Date

\_\_\_\_\_  
Engine Model Year

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

\_\_\_\_\_  
Engine per cylinder displacement

\_\_\_\_\_  
Engine Manufacturer

\_\_\_\_\_  
Generator Manufacturer

\_\_\_\_\_  
Generator Manufacture Date

**IV. 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:*

**APPLICATION FOR SOURCE CATEGORY PERMIT COVERAGE  
Natural Gas-Fired Emergency Engines Subject to NSPS Subpart JJJJ**

Page 5 of 6

<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 Hours Per Year of Operation<sup>4</sup></b>	<b>Maximum Potential Emissions (Tons/yr)</b>
<b>NO<sub>x</sub></b>					
<b>SO<sub>x</sub></b>					
<b>VOC</b>					
<b>CO</b>					
<b>PM<sub>(Total)</sub></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 SCF of natural gas and lb/million BTU of heat input.

<sup>4</sup> The default value for this column should be 500 hours per year for emergency engines. If a different value is used, you are not eligible for coverage under this source category permit so you should seek a standard unit-specific permit.

Cite the source(s) of the emission factors:

**V. Notes and Required Attachments**

1. Please attach a copy of the EPA Certificate of Conformity applicable to the unit.
2. 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.
3. 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. If an application update is submitted, the 45 day passive approval period will re-set as of the date of submission of the revised application.
4. The complete application and applicable supporting documentation must be submitted to the following address:

Branch Chief, Permitting Branch  
Air Quality Division  
1200 First Street NE, 5th Floor  
Washington, DC 20002

**APPLICATION FOR SOURCE CATEGORY PERMIT COVERAGE  
Natural Gas-Fired Emergency Engines Subject to NSPS Subpart JJJJ**

Page 6 of 6

**VI. 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 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:

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Owner/Responsible Official Signature	Print Name and Title	Date
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Mailing Address of Owner/Responsible Official if Different From (2) above