

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

**APPLICATION FOR SOURCE CATEGORY PERMIT APPROVAL TO OPERATE AN  
EXISTING DIESEL-FIRED EMERGENCY ENGINE EXEMPT FROM  
NSPS SUBPART III BUT SUBJECT TO NESHAP SUBPART ZZZZ**

**Permit 7115-SC-R1**

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

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

- The equipment consists of a diesel-fired emergency generator engine or other diesel-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 exclusively for emergency purposes (except maintenance and testing and limited non-compensated non-emergency operations specified in Condition IV(c)(2) of the source category permit) 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).
- 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.
- Construction of this engine, in combination with any other equipment constructed as part of the same construction project, did not trigger applicability of 20 DCMR 204, Permit Requirements for Major Sources Located in Non-Attainment Areas (New Source Review) at the time of construction. You may check this box if you checked the previous box and there was no other air pollutant-emitting equipment constructed as part of the same construction project. If other air pollutant-emitting equipment was constructed as part of the same construction project, please perform and submit a full applicability evaluation pursuant to 20 DCMR 204 or contact the Air Quality Division (AQD) at (202) 535-2250 to request further guidance.
- The engine has not been modified or reconstructed as defined in 40 CFR 60.14 or 60.15.
- The facility at which the unit is located is not a major source of hazardous air pollutant (HAP) emissions [20 DCMR 399, definition of "Major source", section (a)] (i.e. the facility does not emit more than 10 tons of any individual HAP nor does it emit more than 25 tons of all HAPs combined).

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Check this box if none of the following (1 through 3) is true:

1. The model year of the engine is 2007 or later for engines that are not fire pump engines;
2. The engine is for a fire pump and its model year is equal to or newer than those specified in the following table, based on the size of the engine:

<b>Fire Pump Engine Applicability Table</b>		
<b>Engine Power</b>		<b>Starting Applicability Model Year*</b>
<b>Mechanical Kilowatts (kW<sub>m</sub>)</b>	<b>Horsepower (hp)</b>	
kW <sub>m</sub> < 75	hp < 100	2011
75 ≤ kW <sub>m</sub> < 130	100 ≤ hp < 175	2010
130 ≤ kW <sub>m</sub> ≤ 560	175 ≤ hp ≤ 750	2009
kW <sub>m</sub> > 560	hp > 750	2008

Fire pump engines with a maximum engine power greater than or equal to 37 kW<sub>m</sub> (50 hp) and less than 450 kW<sub>m</sub> (600 hp) and a rated speed of greater than 2,650 revolutions per minute (rpm) are covered by this condition only three years after the model year listed in this table for the applicable power category.

or;

3. The engine was ordered by the owner or operator after July 11, 2005 and one of the following is true:
  - A. The engine was manufactured after April 1, 2006 and is not a fire pump engine; or
  - B. The engine was manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006;

Only diesel fuel that contains a maximum sulfur content of 15 ppm (0.0015 percent by weight) will be purchased for use in the engine; and

The equipment will be operated in compliance with the “Source Category Permit to Operate Existing Stationary Diesel-Fired Emergency Engines Exempt from NSPS Subpart III but Subject to NESHAP Subpart ZZZZ”. (Permit 7115-SC-R1)

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 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.

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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)
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".*

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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: \_\_\_\_\_ gal/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, except as specified in Condition IV(c) of the source category permit.*

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

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

9. Date construction/installation of engine began or is planned to begin: \_\_\_\_\_

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10. Date construction/installation of engine completed (if applicable): \_\_\_\_\_

11. Manufacturing Information:

\_\_\_\_\_  
Engine Order Date                      Engine Manufacture Date                      Engine Model Year

\_\_\_\_\_  
Engine Serial Number                      Engine per cylinder displacement                      Engine Manufacturer  
(if available)

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

**IV. Emissions**

Please complete the following "Potential to Emit" table and attach a sample calculation.  
(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:*

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<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/hp-hr 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:

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**V. Notes and Required Attachments**

1. Please attach a copy of the manufacturer’s specifications for the unit (whenever they can be obtained) and any other appropriate supporting documentation, including the basis for manufacturer-specified emission factors.
2. 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.
3. The complete application and applicable supporting documentation must be submitted to the following address:

Branch Chief, Air Quality Permitting Branch  
Department of Energy and Environment  
1200 First Street NE, 5th Floor  
Washington, DC 20002

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**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 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:

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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 II(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)

## **Attachment 1**

# **Source Category Permit to Operate Existing Stationary Diesel-Fired Emergency Engines Exempt from NSPS Subpart IIII but Subject to NESHAP Subpart ZZZZ**

Permit No. 7115-SC-R1