March 11, 2014

Mr. Paul Matthews

Manager, Electric Distribution Privatization

Virginia Electric and Power Company dba Dominion Virginia Power

5000 Dominion Blvd.

GlenAllen, VA 23060

**RE: Permit Nos. 6436-R1 and 6437-R1 to Operate Two Emergency Generators at the Fort Lesley J. McNair**

Dear Mr. Graves:

Pursuant to section 200.2 of Title 20 of the District of Columbia Municipal Regulations (20 DCMR), a permit from the District Department of the Environment (the Department) shall be obtained before any person can operate a stationary source in the District of Columbia. The applications of the Virginia Electric and Power Company dba Dominion Virginia Power (the permittee) to operate the following two emergency generators at Fort Lesley J. McNair, Building 64, located at 4th and P Streets SW, Washington, DC, per the submitted plans and specifications, have been reviewed:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Equipment Location** | **Make** | **Generator Output (Engine Size)** | **Generator Set Model No.** | **Generator** | **Permit No.** |
| Building 64  (Lincoln Hall)  Fort Lesley J. McNair  4th and P Streets SW | Caterpillar | 1,000 kW  (1,502 bhp) | C32 DITA | Cat Gen 1 | 6436-R1 |
| Caterpillar | 1,000 kW  (1,502 bhp) | C32 DITA | Cat Gen 2 | 6437-R1 |

Based on the submitted plans and specifications as detailed in the applications received December 20, 2013, your applications are hereby approved subject to the following conditions:

I. General Requirements:

a. The emergency generators shall be maintained and operated in accordance with the air pollution control requirements of 20 DCMR.

b. These permits expire on March 10, 2019 [20 DCMR 200.4]. If continued operation after this date is desired, the owner or operator shall submit renewal applications by December 10, 2018.

c. Operation of equipment under the authority of this permit shall be considered acceptance of its terms and conditions.

d. The Permittee shall allow authorized officials of the District, upon presentation of identification, to:

1. Enter upon the Permittee’s premises where a source or emission unit is located, an emissions related activity is conducted, or where records required by this permit are kept;

2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of this permit;

3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor, at reasonable times, any substance or parameter for the purpose of assuring compliance with this permit or any applicable requirement.

e. These permits shall be kept on the premises and produced upon request.

1. Failure to comply with the provisions of these permits may be grounds for suspension or revocation. [20 DCMR 202.2]
2. This set of permits supersede permits 6364 and 6365, issued March 22, 1011.

II. Emission Limitations:

a. Emissions from each unit shall not exceed those in the following table, as measured according to the procedures set forth in 40 CFR 89, Subpart E. [40 CFR 60.4205(b), 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a)]:

|  |  |  |
| --- | --- | --- |
| **Pollutant Emission Limits (g/kW-hr)** | | |
| NMHC+NOx | CO | PM |
| 6.4 | 3.5 | 0.20 |

a. Visible emissions shall not be emitted into the outdoor atmosphere from these generators, except that discharges not exceeding forty percent (40%) opacity (unaveraged) shall be permitted for two (2) minutes in any sixty (60) minute period and for an aggregate of twelve (12) minutes in any twenty-four hour (24 hr.) period during start-up, cleaning, adjustment of combustion controls, or malfunction of the equipment [20 DCMR 606.1].

b. An emission into the atmosphere of odorous or other air pollutants from any source in any quantity and of any characteristic, and duration which is, or is likely to be injurious to the public health or welfare, or which interferes with the reasonable enjoyment of life or property is prohibited. [20 DCMR 903.1]

III. Operational Limitations:

* 1. a. The emergency generators shall not be operated in excess of 500 hours in any given 12 month period. If operation beyond 500 hours is desired, the owner or operator shall submit an application to amend this permit to comply with the conditions of 20 DCMR 805 as applicable and shall obtain the Department’s approval of such application prior to initiating such operation.

b. With the exceptions specified in Condition III(c), the emergency generators shall be operated only during emergencies as follows [20 DCMR 201]:

1. An electrical power outage due to: a failure of the electrical grid; on-site disaster; local equipment failure; or public service emergencies such as flood, fire, natural disaster, or severe weather conditions (e.g. hurricane, tornado, blizzard, etc.);

2. For period of up to 15 hours per calendar year when there is a deviation of voltage or frequency from the electrical provider to the premises of 5 percent or more below standard voltage or frequency such that the equipment being supported cannot be safely or effectively operated; or

3. When a sudden, unexpected event occurs that, if not immediately attended to, presents a safety or public health hazard, is necessary to protect equipment from damage, or is necessary to avoid imposing an unreasonable financial burden. An emergency includes operations necessitated by non-routine failures of equipment, but it does not include voluntary demand reductions covered by Condition III(f).

c. Each emergency generator may be operated for the purpose of maintenance checks and readiness testing for a period not to exceed one hundred (100) hours per year as specified in Condition III(c)(1) and (2) below. Any such operation shall be considered as part of the 500 hours allowed under Condition III(a) above. [40 CFR 60.4211(f)]

1. Each emergency generator may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. [40 CFR 60.4211(f)(2)(i) and DCMR 201]; and

2. Each emergency generator may be operated for up fifty (50) hours per calendar year in non-emergency situations. Any such operations shall be counted as part of the 100 hours per calendar year for maintenance and testing as provided in Condition III(c). These 50 hours of non-emergency operations per calendar year cannot be used for peak shaving, or as part of any program to supply power to generate income for the facility as part of a financial arrangement with another entity. All operations prohibited under Condition III(f) are also prohibited under this condition. [40 CFR 60.4211(f)(3) and 20 DCMR 201]

d. The emergency generators shall fire only diesel fuel which contains a maximum sulfur content of 15 ppm (0.0015% by weight) and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent. [40 CFR 60.4207(b)]

e. The emergency generators shall be operated and maintained in accordance with the recommendations of the equipment manufacturers.

f. The emergency generators shall not be operated in conjunction with a voluntary demand-reduction program or any other interruptible power supply arrangement with a utility, other market participant, or system operator. [20 DCMR 201]

g. At all times, including periods of startup, shutdown, and malfunction, the owner shall, to the extent practicable, maintain and operate the units in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

IV. Monitoring and Testing Requirements:

a. The owner or operator shall monitor the date, time, duration, and reason for each emergency generator startup.

b. In order to ensure compliance with Condition III(a), the owner or operator shall monitor the total hours of operation each month with the use of properly functioning, non-resettable hour metering device.

c. The owner or operator shall test fuel oil as necessary to show compliance with Conditions III(d) and V(c) in accordance with ASTM method D-4294 or D-5453 or other method approved in advance by the Department. [20 DCMR 502.6 and 502.3]

d. The owner or operator shall conduct and allow the Department access to conduct tests of air pollution emissions from any source as requested. [20 DCMR 502.1]

V. Record Keeping Requirements:

a. The following information shall be maintained at the facility for a period not less than five (5) years [20 DCMR 500.8 and 20 DCMR 302.1(c)(2)(B)]:

1. The date, time, duration, and reason for each start-up of each emergency generator, including the following specific information:

i. If the unit is operated due to a deviation in voltage from the utility pursuant to Condition III(b)(2) this shall be specifically noted;

ii. If the unit is operated in non-emergency situations pursuant to Condition III(c), the specific purpose for each operation period must be recorded; and

iii. If the unit is operated for emergency purposes, what classified the operation as emergency.

2. The total hours of operation or each generator for each month and the cumulative 12-month rolling period shall be calculated and recorded within 15 days of the end of each calendar month;

3. The total hours of operation of each generator due to a deviation in voltage from the utility pursuant to Condition III(b)(2) each calendar year;

4. Records of the maintenance performed on the units;

5. Records of the results of any visible emissions monitoring performed;

6. Records of the occurrence and duration of each malfunction of operation; and

7. Records of the actions taken during periods of malfunction to minimize emissions, including corrective actions to restore malfunction process and air pollution control and monitoring equipment to its normal or usual manner of operation.

b. The owner or operator shall maintain a copy of each emergency generator’s manufacturer’s maintenance and operating recommendations at the facility.

c. For each delivery of diesel fuel, the owner or operator shall maintain one of the following:

1. A fuel delivery receipt containing the date, fuel type, and amount of the delivery and certification from the fuel supplier that the fuel delivered was tested in accordance with an appropriate ASTM method (specified in the certification) and met the requirements of Condition III(d); or

2. A fuel delivery receipt and documentation of sampling and analysis containing the following information:

A. The fuel oil type;

B. The concentration or weight percent of sulfur in the fuel;

C. The date and time the sample was taken;

D. The name, address, and telephone number of the laboratory that analyzed the sample; and

E. The test method used to determine the sulfur content.

d. The owner or operator shall maintain a copy of the EPA Certificate of Conformity for each generator at the facility at all times.

If you have any questions, please call me at (202) 535-1747 or Abraham T. Hagos at (202) 535-1354.

Sincerely,

Stephen S. Ours, P.E.

Chief, Permitting Branch

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