October 24, 2023

Jay Harmon

Manager

Schuster Concrete Ready Mix LLC

3713 Crondall Lane

Owning Mills MD 21117

**RE: Permit No. 7358 to Operate a Diesel-Fired Emergency Generator Set Located at 2662 Woodley Road NW, Washington DC 20008**

Dear Jay Harmon:

Pursuant to sections 200.1 and 200.2 of Title 20 of the District of Columbia Municipal Regulations (20 DCMR), a permit from the Department of Energy and Environment (the Department) shall be obtained before any person may construct and operate a new stationary source in the District of Columbia. The application of Schuster Concrete Ready Mix LLC (the Permittee) to construct and operate a 40 kWe emergency generator set powered by a 99 hp (74 kWm) diesel-fired engine located at 2662 Woodley Rd NW, per the submitted plans and specifications, dated July 12, 2023, is hereby approved subject to the following conditions:

I. General Requirements:

a. The emergency generator set shall be constructed and operated in accordance with the air pollution control requirements of 20 DCMR.

b. This permit expires on October 23, 2025 [20 DCMR 200.4]. If continued operation after this date is desired, the Permittee shall submit a renewal application by July23, 2025.

c. Construction or 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. This permit shall be kept on the premises and produced upon request.

f. Failure to comply with the provisions of this permit may be grounds for suspension or revocation. [20 DCMR 202.2]

II. Emission Limitations:

a. Visible emissions shall not be emitted from the equipment covered by this permit except that discharges shall be permitted for two (2) minutes during any startup, cleaning, adjustment of combustion or operational controls, or regeneration of emissions control equipment; provided, that such discharges shall not exceed twenty-seven percent (27%) opacity (unaveraged). [20 DCMR 606.1 and 606.2(d)]

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]

Violation of the requirements of this condition that occur as a result of unavoidable malfunction, despite the conscientious employment of control practices, shall be an affirmative defense for which the owner or operator shall bear the burden of proof. A malfunction shall not be considered unavoidable if the owner or operator could have taken, but did not take, appropriate steps to eliminate the malfunction within a reasonable time, as determined by the Department. [20 DCMR 903.13(b)]

III. Operational Limitations:

a. The emergency generator set shall be operated for fewer than 500 hours in any 12-consecutive-month period. If operation of 500 hours or more is desired, the Permittee shall submit an application to amend this permit to comply with the conditions of 20 DCMR 805 and shall obtain the Department’s approval of such application prior to initiating such operation. [20 DCMR 201]

b. Except as specified in Condition III(c), the emergency generator set shall be operated only during emergencies resulting from electrical power outages 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.). [20 DCMR 201]

 c. The emergency generator set may be operated for the purpose of maintenance checks and readiness testing and in non-emergency situations for a period not to exceed one hundred (100) hours per calendar year as specified in Conditions 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 63.6640(f)]

1. The emergency generator set 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 63.6640(f)(2)(i) and DCMR 201]; and

2. The emergency generator set may be operated for up to fifty (50) hours per calendar year in non-emergency situations, subject to the following conditions [40 CFR 63.6640(f)(4) and 20 DCMR 201]:

i. 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);

ii. 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;

iii. All operations prohibited under Condition III(e) are also prohibited under this condition; and

iv. All operations resulting from a deviation in voltage or frequency from the electric provider to the premises shall be considered non-emergency operation and counted as part of this 50 hour per calendar year allowance.

d. The Permittee shall purchase only diesel fuel that contains a maximum sulfur content of 15 ppm (0.0015 percent by weight) for use in the emergency generator set. [20 DCMR 201 and 20 DCMR 801]

e. The emergency generator set 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]

f. The Permittee shall operate and maintain all of the equipment covered by this permit in accordance with one of the following: [20 DCMR 606.4(b), 40 CFR 63.6625(e), 40 CFR 63.6640(a), and 40 CFR Part 63 Table 6, Condition 9]

1. The manufacturer’s emission-related, written, operation and maintenance instructions; or

2. An alternate written maintenance plan, approved in writing by the Department, which must provide, to the extent practicable, for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

g. In addition to the requirements of Condition III(f), the following maintenance activities shall be performed on the schedules specified [40 CFR 63.6603(a), 40 CFR 63.6640(a), and 40 CFR 60, Subpart ZZZZ, Table 2d]:

1. Change oil and filter every 500 hours of operation or annually, whichever comes first, except that sources have the option to utilize an oil analysis program as described in 40 CFR 63.6625(i) in order to extend this specified oil change requirement. If such an oil analysis program is to be used, the plan shall be submitted to the Department for review at the time of its establishment;

2. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and

3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

h. The Permittee shall minimize the generator engine’s time spent at idle during startup and minimize the engine’s startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)]

i. At all times, including periods of startup, shutdown, and malfunction, the Permittee shall maintain and operate the unit in a manner consistent with safety and good air pollution control practices for minimizing emissions, including during startup, shutdown, and malfunction. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this permit and 40 CFR 63, Subpart ZZZZ have been achieved. Determination of whether acceptable operating procedures are being used will be based on information available to the Department and the EPA Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, review of operation and maintenance records, and inspection of the source. [20 DCMR 201 and 40 CFR 63.6605(b)]

j. The Permittee shall ensure that persons participating in the maintenance and operation of equipment are adequately trained and supervised to meet the requirements of Conditions III(f) and (i). [20 DCMR 606.4(c)]

IV. Monitoring and Testing:

a. The Permittee shall monitor the date, time, duration, and reason for the emergency generator set start-up to ensure compliance with Conditions III(a), (b), (c), and (e) of this permit. [20 DCMR 500.2]

b. In order to ensure compliance with Condition III(a), Permittee shall monitor the total hours of operation each month with the use of a properly functioning, non-resettable hour metering device. Such a device must be installed if not already installed on the equipment. [40 CFR 63.6625(f) and 40 CFR 63.6655(f)]

c. The Permittee shall monitor and/or test for the sulfur content in diesel fuel obtained for use in the generator engine, to ensure compliance with Condition III(d), and in accordance with Condition V(c). [20 DCMR 500.1, 502.3, and 502.6]

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

e. The Permittee shall maintain an awareness of the operation of the generator set to identify potential exceedances of Conditions II(a) and (b). If significant visible emissions are observed from any unit, the Permittee shall have the visible emissions tested by a qualified person certified to perform testing pursuant to 40 CFR 60, Reference Method 9. [20 DCMR 502.1]

V. Record Keeping and Reporting Requirements:

1. The following information shall be recorded, initialed (except records generated automatically by a verifiable electronic system), and maintained in a log at the facility (or readily accessible electronically from the facility) for a period not less than five (5) years from the date the information is obtained [20 DCMR 500.8, 20 DCMR 606.5, 40 CFR 63.6660, 40 CFR 66.6655, and 40 CFR 63.10(b)]:

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

i. If the unit is operated in non-emergency situations pursuant to Condition III(c)(2), the specific purpose for each operation period must be recorded; and

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

2. The total hours of operation 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 for the previous month and the 12-month period ending at the end of that month;

3. Records of the date, time, and duration of any equipment manual startup, manual shutdown, cleaning, combustion control adjustment, emission control regeneration, and malfunction [20 DCMR 606.5(a)];

4. For any malfunction, investigate the cause of the malfunction and maintain records of the investigatory activities and conclusions of such investigation [20 DCMR 606.5(b)];

5. The total hours of operation for maintenance checks and readiness testing and non-emergency operation pursuant to Condition III(c) each month, recorded within 15 days of the end of each calendar month, and totaled for each calendar year by January 15 of each year for the previous calendar year.

6. The total hours of operation each calendar year for non-emergency purposes each calendar year pursuant to Condition III(c)(2), totaled by January 15 of each calendar year for the previous calendar year;

7. Records of the quantity of fuel used in the unit, recorded on a monthly basis and summed for each calendar year;

8. Records of the maintenance performed on the unit *[Note that these records must be sufficient to the Permittee is complying with the requirements of Conditions III(f) and (g)]*;

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

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

11. 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.

12. Records of staff training performed pursuant to Condition III(j).

b. The Permittee shall maintain a copy of the emergency generator’s manufacturer’s maintenance and operating recommendations at the facility for the life of the equipment. If such documentation is unavailable, the Permittee shall maintain documentation of the written maintenance plan consistent with industry standards in accordance with which the unit is being maintained.

c. For each delivery of diesel fuel, the Permittee 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:

i. The fuel oil type and the ASTM method used to determine the type (see the definition of distillate oil in 40 CFR 60.41c for appropriate ASTM methods);

ii. The weight percent sulfur of the fuel as determined using ASTM test method D-4294 or D-5453 or other methods approved in advance by the Department;

iii. The date and time the sample was taken;

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

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

d. The Permittee shall, within ten (10) days of becoming aware of a deviation from any condition of this permit, submit a written report to the Department at the following address [20 DCMR 502]:

air.quality@dc.gov

If you have any questions, please call me at (202) 535-1747 or Wyatt Bohmann at (202) 309-6112.

Sincerely,

Stephen S. Ours, P.E.

Chief, Permitting Branch

SSO:WEB