October 24, 2023

Jay Harmon

Manager

Schuster Concrete Ready Mix LLC

3713 Crondall Lane

Owings Mills MD 21117

**RE: Permit No** **7357 to Construct and Operate a Non-Emergency Diesel-Fired Engine 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 can 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 an 84 hp John Deere, model year 1998, non-emergency, diesel-fired engine, located at 2662 Woodley Rd NW, Washington DC, per the submitted plans and specifications, dated July 12, 2023, is hereby approved, subject to the following conditions:

1. General Requirements:
	1. The engine shall be maintained and operated in accordance with the air pollution control requirements of 20 DCMR.
	2. 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 July 23, 2025.
	3. Construction or operation of equipment under the authority of this permit shall be considered acceptance of its terms and conditions.
	4. 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.
	5. This permit shall be kept on the premises and produced upon request.
	6. Failure to comply with the provisions of this permit may be grounds for suspension or revocation. [20 DCMR 202.2]
2. 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)]

1. Operational Limitations
	1. The engine shall fire only diesel fuel that contains a maximum sulfur content of 15 ppm (0.0015 percent by weight) and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent. [20 DCMR 801.3 and 40 CFR 80.510(b)]
	2. The engine shall not be operated in excess of 3,120 hours in any 12-consecutive-month period. [20 DCMR 200.7 and 20 DCMR 201]
	3. The engine 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]
	4. The Permittee shall comply with the following [40 CFR 63.6603(a), 40 CFR Part 63 Table 2d]:
		1. Change oil and filter every 1,000 hours of operation or annually, whichever comes first;
		2. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;
		3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
	5. Alternatively, the Permittee has the option to opt for an oil analysis program in order to extend the oil change requirement specified in Condition III(d)(1). The analysis program must at a minimum analyze the following three parameters: total base number, viscosity, and percent water content. The condemning limits for these parameters are as follows: total base number is less than 30 percent of the total base number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.[ 40 CFR 63.6625(i)]
	6. During periods of startup, the permittee must minimize the engine’s time spent at idle and minimize the engine’s startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply [40 CFR 63.6603(a) and 40 CFR Subpart ZZZZ Table 2d].
	7. At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate the units in a manner consistent with good air pollution control practice 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 which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [20 DCMR 201, 20 DCMR 606.4(a), and 40 CFR 63.6605(b)]

h. 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 63.6640(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.

i. 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(g) and (h). [20 DCMR 606.4(c)]

1. Monitoring and Testing Requirements
	1. The Permittee shall monitor the total number of hours of operation of the engine each month with the use of a properly operating non-resettable hour meter installed on the unit. [20 DCMR 500.1]
	2. The Permittee shall monitor and/or test fuel oil as necessary to show compliance with Conditions III(a) and V(c) in accordance with appropriate ASTM methods. [20 DCMR 502.3 and 502.6]
	3. 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]
	4. The Permittee shall maintain an awareness of the operation of the engine 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]
2. Record Keeping and Reporting Requirements:
	1. The following information about the engine 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 (5) years from the date the information is obtained [20 DCMR 500.8, 20 DCMR 606.5, and 40 CFR 63.6660]:
		1. 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;
		2. 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)];
		3. 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)];
		4. Records of the maintenance performed on the unit, sufficient to show compliance with Conditions III(g) and (h);
		5. Records of the results of any visible emissions monitoring performed;
		6. Records of any complaints received by the Permittee about the operation of the of the engine;
		7. Records of the occurrence and duration of each malfunction operation;
		8. 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; and
		9. Records of staff training performed pursuant to Condition III(i).
	2. The Permittee shall maintain a copy of the engine’s manufacturer’s maintenance and operating recommendations at the facility. [20 DCMR 501]
	3. 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(a); or
		2. A fuel delivery receipt and documentation of sampling and analysis containing the following information:
			1. 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);
			2. 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;
			3. The date and time the sample was taken;
			4. The name, address, and telephone number of the laboratory that analyzed the sample; and
			5. 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