March 14, 2022

Jay Harmon

Manager

Schuster Concrete Ready Mix LLC

3713 Crondall Lane

Owings Mills, DC 21117

**RE: Permit Nos** **7343 to Construct and Operate a Non-Emergency Diesel-Fired Engine at** **632 Howard Rd SE, Washington DC 20020**

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 a 99 hp John Deere, model year 2011, non-emergency, diesel-fired engine, located at 632 Howard Rd SE, Washington DC, per the submitted plans and specifications, dated November 18, 2022, are 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 March 13, 2025. [20 DCMR 200.4] If continued operation after this date is desired, the Permittee shall submit a renewal application by December 13, 2024.
   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 re cords 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:
   1. Emissions from the engine shall not exceed those emission standards specified in following table as tested pursuant to the applicable test methods in 40 CFR 1039, Subpart F [40 CFR Subpart IIII, 40 CFR 60.4204(b), 40 CFR 60.4201(a), 40 CFR 1039 Appendix I]:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Emission Unit ID | Pollutant Emission Limits (g/kW-hr) | | | | |
| NOx+NMHC† | NOx | NMHC | CO | PM† |
| Plant Gen #1 | 3.9 |  |  | 5.0 | 0.18 |

† These values are based on Family Emission Limits specified on the EPA Certificate of conformity.

* 1. Visible emissions shall not be emitted into the outdoor atmosphere from this engine, 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]

*Note that 20 DCMR 606 is subject to an EPA-issued call for a State Implementation Plan (SIP) revision (known as a “SIP call”) requiring the District to revise 20 DCMR 606. See “State Implementation Plans: Response to Petition for Rulemaking; Restatement and Update of EPA’s SSM Policy Applicable to SIPs; Findings of Substantial Inadequacy; and SIP Calls To Amend Provisions Applying to Excess Emissions During Periods of Startup, Shutdown and Malfunction”, 80 Fed. Reg. 33840 (June 12, 2015). It is likely that this federal action will result in changes to the requirements of 20 DCMR 606. Any such changes, once finalized in the DCMR, will supersede the language of Condition II(b) as stated above.*

* 1. In addition to Condition II(b), exhaust opacity, measured and calculated as set forth in 40 CFR 1039.105(b) and 1039.501(c), shall not exceed [40 CFR 60.4201(a) and 40 CFR 60.4204(b)]:
     1. 20 percent during the acceleration mode;
     2. 15 percent during lugging mode; and
     3. 40 percent during the peaks in either the acceleration or lugging modes. *Note that this condition is streamlined with the requirements of 20 DCMR 606.1.*
  2. The Permittee shall comply with the requirements for crankcase emissions, adjustable parameters, prohibited controls, and defeat devices specified in 40 CFR 1039.115
  3. 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]

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 801.1, 40 CFR 60.4207(b) 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 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 engine and all of its appurtenances shall be maintained and operated as follows: [40 CFR 60.4211(a) and (c)]
      1. Install, configure, operate, and maintain the engine and control device(s) according to the manufacturer’s emission-related written instructions.
      2. Change only those emission-related setting that are permitted by the manufacturer; and
      3. Meet the requirements of 40 CFR Parts 89, 94, and/or 1068 as they apply to the unit.
   5. 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. 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]
2. 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(b) and (c). 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]
3. Record Keeping Requirements:
   1. The following information about the engine shall be recorded, initialed (except records generated automatically by an electronic system), and maintained in a log at the facility (or readily accessible electronically from the facility) for a period not less than (3) years from the date the information is obtained [20 DCMR 500.8]:
      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 maintenance performed on the unit, sufficient to show compliance with Conditions III(d) and(e);
      3. Records of the results of any visible emissions monitoring performed;
      4. Records of any complaints received by the Permittee about the operation of the of the engine;
      5. Records of the occurrence and duration of each malfunction operation; and
      6. 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
   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.
      3. The Permittee shall maintain a copy of the EPA Certificate of Conformity for the engine at the facility at all times. [20 DCMR 500.1]
      4. The Permittee shall, within ten (10) days of becoming aware of a violation of 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