



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
SOUTHWEST REGIONAL OFFICE

355-A Deadmore Street, Abingdon, Virginia 24210
(276) 676-4800 Fax: (276) 676-4899
www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

Allen J. Newman, P.E.
Regional Director

August 23, 2016

Mr. Rob Noll
Head of Operations
DP Facilities Inc. South, LLC
5978 Windswept Blvd
Wise, VA 24293

Location: Wise County, VA
Registration No. 11790

Dear Mr. Noll:

Attached is a permit to construct and operate emergency diesel-fueled engine-generator sets at DP Facilities Inc. South, LLC in accordance with the provisions of the Virginia Regulations for the Control and Abatement of Air Pollution.

In the course of evaluating the application and arriving at a final decision to approve the project, the Department of Environmental Quality (DEQ) deemed the application complete on August 12, 2016.

The permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil charges. Please read all permit conditions carefully.

This permit approval to construct and operate shall not relieve DP Facilities Inc. South, LLC of the responsibility to comply with all other local, state, and federal permit regulations.

The Board's Regulations as contained in Title 9 of the Virginia Administrative Code 5-170-200 provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this case decision notice was mailed or delivered to you. 9 VAC 5-170-200 provides that you may request direct consideration of the decision by the Board if the Director of the DEQ made the decision. Please consult the relevant regulations for additional requirements for such requests.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service of this decision (the date you actually received this decision or the date on which it was mailed to you, whichever occurred first), within which to initiate an appeal of this decision by filing a Notice of Appeal with:

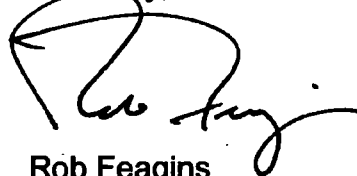
David K. Paylor, Director
Department of Environmental Quality
P. O. Box 1105
Richmond, VA 23218

If this permit was delivered to you by mail, three days are added to the thirty-day period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for information on the required content of the Notice of Appeal and for additional requirements governing appeals from decisions of administrative agencies.

The diesel engines on each of the generator sets are subject to 40 CFR 63, Maximum Achievable Control Technology, (MACT) Subpart ZZZZ and 40 CFR 60, New Source Performance Standard (NSPS), Subpart IIII. In summary, the units are required to comply with certain federal emission standards and operating limitations. The Department of Environmental Quality (DEQ) advises you to review the referenced MACT and NSPS to ensure compliance with applicable emission and operational limitations. As the owner/operator you are also responsible for any monitoring, notification, reporting and recordkeeping requirements of the MACT and NSPS. Notifications shall be sent to EPA, Region III. Links to the provisions of MACT Subpart ZZZZ can be found on the internet at: <https://www3.epa.gov/ttn/atw/icengines/>.

If you have any questions concerning this permit, please call me at (276) 676-4835.

Sincerely,

A handwritten signature in black ink, appearing to read "Rob Feagins", written over a large, stylized circular flourish.

Rob Feagins
Air Permit Manager

GRF/TMD/td/P-11790-16.docx

Attachments: Permit



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Director

Allen J. Newman, P.E.
Regional Director

STATIONARY SOURCE PERMIT TO CONSTRUCT AND OPERATE

**In compliance with the Federal Clean Air Act and the Commonwealth of Virginia
Regulations for the Control and Abatement of Air Pollution,**

DP Facilities Inc. South, LLC
5978 Windswept Blvd
Wise, VA 24293
Registration No. 11790

is authorized to construct and operate

emergency diesel-fueled engine-generator sets

located at

DP Facilities Inc. South, LLC
5978 Windswept Blvd, Wise, Virginia

in accordance with the conditions of this permit.

Approved on August 23, 2016.

A handwritten signature in black ink, appearing to read "Allen J. Newman".

Allen J. Newman, P.E.
Regional Director

Permit consists of 7 pages.
Permit Conditions 1 to 21.

INTRODUCTION

This permit approval is based on the permit applications dated June 30, 2016, as revised August 12, 2016. Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action. In addition, this facility may be subject to additional applicable requirements not listed in this permit.

Words or terms used in this permit shall have meanings as provided in 9 VAC 5-10-20 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. The regulatory reference or authority for each condition is listed in parentheses () after each condition.

Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the DEQ or the Board for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact.

The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.2-3700 through 2.2-3714 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.

Equipment List - Equipment at this facility consists of the following:

Ref. No.	Equipment Description	Rated Capacity	Original Permit Date:
Equipment to be constructed:			
EG01 – EG06	(6) Cummins QSK78-G12 diesel-fueled engine-generator sets	2500 kW 4060 hp (nameplate) each	8/23/2016
EG07	Cummins QSK19-G8 diesel-fueled engine-generator set	600 kW 967 hp (nameplate)	8/23/2016

Specifications included in the above table are for informational purposes only and do not form enforceable terms or conditions of the permit.

PROCESS REQUIREMENTS

- Emission Controls** – Emissions of nitrogen oxides (NO_x) from each of the emergency diesel-fueled engine-generator sets (Reference Nos. EG01 – EG07) shall be controlled by turbocharged engines, charge air coolers, and the use of good operating practices and performing appropriate maintenance in accordance with the manufacturer recommendations. The permittee shall maintain documentation that the control devices have been installed on the diesel engines. (9 VAC 5-50-260 and 9 VAC 5-80-1180)

2. **Emission Controls** – Emissions of carbon monoxide (CO), volatile organic compounds (VOC), and particulate from each of the emergency diesel-fueled engine-generator sets (Reference Nos. EG01 – EG07) shall be controlled by the use of good operating practices and performing appropriate maintenance in accordance with the manufacturer recommendations.
(9 VAC 5-80-1180)
3. **Monitoring Devices** – Each emergency diesel-fueled engine-generator set (Reference Nos. EG01 – EG07) shall be equipped with a non-resettable hour metering device to monitor the operating hours. The non-resettable hour meter used to continuously measure the hours of operation for each engine-generator set shall be observed by the owner with a frequency of not less than once each month in which the unit is operated. The owner shall keep a log of these observations.

Each monitoring device shall be installed, maintained, calibrated (as appropriate) and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the respective emergency diesel-fueled engine-generator set is operating.
(9 VAC 5-80-1180)

OPERATING LIMITATIONS

4. **Operation of the Engine-Generator Set** - The permittee shall operate and maintain each emergency diesel-fueled engine-generator set and control device according to the manufacturer's written instructions or procedures developed by the permittee that are approved by the engine manufacturer.
(9 VAC 5-80-1180)
5. **Emergency Power Generation** – The emergency diesel-fueled engine-generator sets (Reference Nos. EG01 – EG07) shall only be operated in the following modes:
 - a. In situations that arise from sudden and reasonably unforeseeable events where the primary energy or power source is disrupted or disconnected due to conditions beyond the control of an owner or operator of a facility including:
 - i. A failure of the electrical grid;
 - ii. On-site disaster or equipment failure; or
 - iii. Public service emergencies such as flood, fire, natural disaster, or severe weather conditions.
 - b. For periodic maintenance, testing, and operational training.
(9 VAC 5-80-1180)
6. **Operating Hours** - Each emergency diesel-fueled engine-generator set (Reference Nos. EG01 – EG07) shall not operate more than 500 hours per year, calculated monthly as the sum of each consecutive 12 month period. Compliance for the consecutive 12 month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-1180)

7. **Fuel** - The approved fuel for each emergency diesel-fueled engine-generator set (Reference Nos. EG01 - EG07) is diesel fuel. The diesel fuel shall meet the ASTM D975 specification for S15 diesel fuel oil with a maximum sulfur content per shipment of 0.0015%. A change in the fuel may require a new or amended permit.
(9 VAC 5-50-260 and 9 VAC 5-80-1180)
8. **Fuel Consumption** - The emergency diesel-fueled engine-generator sets (Reference Nos. EG01 - EG07) shall consume no more than 583,600 gallons of diesel fuel per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-1180)
9. **Fuel Certification** - The permittee shall obtain a certification from the fuel supplier with each shipment of diesel fuel. Each fuel supplier certification shall include the following:
- The name of the fuel supplier;
 - The date on which the diesel fuel was received;
 - The quantity of diesel fuel delivered in the shipment;
 - A statement that the diesel fuel complies with the American Society for Testing and Materials specifications (ASTM D975) for S15 diesel fuel oil; and
 - The sulfur content of the diesel fuel.
- Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ may be used to determine compliance with the fuel specifications stipulated in Condition 7. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.
(9 VAC 5-80-1180)

EMISSION LIMITS

10. **Emission Limits** - Emissions from the operation of the emergency diesel-fueled engine-generator sets (Reference Nos. EG01 – EG07) shall not exceed the limits specified below:

Pollutant	EG01 – EG06 (lbs/hr per unit)	EG07 (lbs/hr)	Facility-wide Total (tons/yr)
Volatile Organic Compounds (VOC)	1.29	0.28	2.01
Nitrogen Oxides (as NO ₂)	53.70	12.79	83.75
Carbon Monoxide (CO)	3.85	1.08	6.05
PM-10 / PM-2.5	0.36	0.17	0.58

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 1, 2, 7, and 8.

(9 VAC 5-50-260 and 9 VAC 5-80-1180)

11. **Visible Emission Limit** - Visible emissions from each emergency diesel-fueled engine-generator set exhaust (Reference Nos. EG01 – EG07) shall not exceed ten percent (10%) opacity except during one 6-minute period in any one hour in which visible emissions shall not exceed twenty percent (20%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-50-260 and 9 VAC 5-80-1180)

INITIAL COMPLIANCE DETERMINATION

12. **Emissions Testing** - The facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. Sampling ports shall be provided when requested at the appropriate locations and safe sampling platforms and access shall be provided.
(9 VAC 5-50-30 F and 9 VAC 5-80-1180)

RECORDS

13. **On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:
- a. Annual hours of operation of each emergency diesel-fueled engine-generator set (Reference Nos. EG01 – EG07), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 - b. Annual consumption of diesel fuel, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 - c. All fuel supplier certifications.
 - d. Engine information including make, model, serial number, model year, maximum engine power (bhp), and engine displacement for each engine-generator set.
 - e. The manufacturer's written operating instructions or procedures developed by the owner/operator that are approved by the engine manufacturer for each engine-generator set.
 - f. Records of the reasons for operation for each engine-generator set (Reference Nos. EG01 – EG07), including, but not limited to, the date, cause of operation, and the hours of operation.
 - g. Results of all stack tests and visible emission evaluations.
 - h. Scheduled and unscheduled maintenance and operator training.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-1180 and 9 VAC 5-50-50)

GENERAL CONDITIONS

14. **Permit Suspension/Revocation** - This permit may be suspended or revoked if the permittee:
- Knowingly makes material misstatements in the application for this permit or any amendments to it;
 - Fails to comply with the conditions of this permit;
 - Fails to comply with any emission standards applicable to a permitted emission unit;
 - Causes emissions from the stationary source which result in violations of, or interferes with the attainment and maintenance of, any ambient air quality standard; or
 - Fails to operate this facility in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect on the date that the application for this permit is submitted.
- (9 VAC 5-80-1210 G)

15. **Right of Entry** - The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:
- To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;
 - To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;
 - To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and
 - To sample or test at reasonable times.

For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.

(9 VAC 5-170-130 and 9 VAC 5-80-1180)

16. **Maintenance/Operating Procedures** - At all times, including periods of start-up, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions:
- Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
 - Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
 - Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-50-20 E)

17. **Record of Malfunctions** – The permittee shall maintain records of the occurrence and duration of any bypass, malfunction, shutdown or failure of the facility or its associated air pollution control equipment that results in excess emissions for more than one hour. Records shall include the date, time, duration, description (emission unit, pollutant affected, cause), corrective action, preventive measures taken and name of person generating the record.
(9 VAC 5-20-180 J and 9 VAC 5-80-1180 D)
18. **Notification for Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Director, Southwest Regional Office of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour. Such notification shall be made as soon as practicable but no later than four daytime business hours after the malfunction is discovered. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within two weeks of discovery of the malfunction. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Director, Southwest Regional Office in writing.
(9 VAC 5-20-180 C)
19. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.
(9 VAC 5-20-180 I and 9 VAC 5-80-1180)
20. **Change of Ownership** – In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current minor NSR permit issued to the previous owner. The new owner shall notify the Director, Southwest Regional Office of the change of ownership within 30 days of the transfer.
(9 VAC 5-80-1240)
21. **Permit Copy** - A copy of this permit shall be maintained on the premises of the facility to which it applies.
(9 VAC 5-80-1180)