



NRO-253-09

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

NORTHERN REGIONAL OFFICE

Douglas W. Domenech
Secretary of Natural
Resources

13901 Crown Court, Woodbridge, Virginia 22193
(703) 583-3800 Fax (703) 583-3821
www.deq.virginia.gov

David K. Paylor
Director

August 12, 2010

Mr. Harlan Pincus
Qwest Communications Company, LLC
55 Church Street, 1st Floor
White Plains, NY 10601

Registration Number: 73293

Dear Mr. Pincus:

Attached is a permit to modify and operate a data center located at 22995 Wilder Court, Sterling, VA in Loudoun County. This permit is issued in accordance with the provisions of the Commonwealth of Virginia State Air Pollution Control Board's (Board) Regulations for the Control and Abatement of Air Pollution (Regulations). This permit supersedes your permit dated December 10, 2004.

This permit contains legally enforceable conditions and failure to comply may result in appropriate enforcement. Please read all permit conditions carefully.

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 April 19, 2010.

This permit approval to construct and operate shall not relieve Qwest Communications Company, LLC of the responsibility to comply with all other local, state, and federal permit regulations. It should be noted the proposed engine-generator set(s) (Ref No.'s EG3 and EG4) are affected facilities under 40 CFR 60, New Source Performance Standard (NSPS) Subpart IIII. Each unit is required to comply with certain federal emission standards and operating limitations over the useful life of the unit. As the owner/operator of the unit(s), the DEQ advises you to review the NSPS to ensure compliance with applicable emission standards, operational limitations, and the monitoring, notification, reporting and recordkeeping requirements. Applicable notifications shall be sent to EPA, Region III. The NSPS can be found at <http://ecfr.gpoaccess.gov/>

The Board's Regulations as contained in Title 9 of the Virginia Administrative Code (VAC) 5-170-200 provide that you may request a formal hearing from this case decision by filing a petition with the Board within thirty days after this case decision notice was mailed or delivered to you. 9 VAC 5-170-200 also 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.

Mr. Harlan Pincus
August 12, 2010
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As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date you actually received this permit 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.

If you have any questions concerning this permit, please contact the regional office at 703.583.3800.

Sincerely,



Terry H. Darton
Regional Air Permit Manager

TAF/THD/RDS/10253SOP

Attachments: Permit

cc: Director, OAPP (electronic file submission)
EPA Region III, Permits and Technical Assessment Branch
Manager/Inspector, Air Compliance
File



NRO-253-10

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David K. Paylor
Director

Thomas A. Faha
Regional Director

STATIONARY SOURCE PERMIT TO MODIFY AND OPERATE

This permit supersedes your permit dated December 10, 2004.

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

Qwest Communications Company, LLC
55 Church Street, 1st Floor
White Plains, NY 10601
Registration No.: 73293

is authorized to operate a

Data Center

located at

Qwest Communications Company, LLC
22995 Wilder Court
Sterling, VA 20166

in accordance with the Conditions of this permit.

Approved on: August 12, 2010

A handwritten signature in black ink, appearing to read "T. Faha".

Thomas A. Faha,
Regional Director

Permit consists of 12 pages.
Permit Conditions 1 to 25.

INTRODUCTION

This permit approval is based on the permit application dated April 15, 2010. 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.

Words or terms used in this permit shall have meanings as provided in 9 VAC 5-80-1110 (definitions) and 9 VAC 5-10-20 of the State Air Pollution Control Board's (Board) Regulations for the Control and Abatement of Air Pollution (Regulations). 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 Department of Environmental Quality (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.

PROCESS REQUIREMENTS

1. **Equipment List** – Equipment at this facility consists of the following:

Equipment to be constructed:			
Reference No.	Equipment Description	Rated Capacity	Year of Manufacture
EG3	One (1) Caterpillar Diesel Powered Engine-Generator Set, Model No. 3512C	1,500 kW 2,206 BHP	2008
EG4	One (1) Caterpillar Diesel Powered Engine-Generator Set, Model No. 3512C	1,500 kW 2,206 BHP	2007

Existing Permitted Equipment:			
Reference No.	Equipment Description	Rated Capacity	Year of Manufacture
EG1	One (1) Caterpillar Diesel Powered Engine-Generator Set, Model No. 3512B	1,500 kW 2,168 BHP	2000
EG2	One (1) Caterpillar Diesel Powered Engine-Generator Set, Model No. 3512B	1,500 kW 2,168 BHP	2000

Specifications included in the permit under this Condition are for informational purposes only and do not form enforceable terms or conditions of the permit unless the specifications are needed to form the basis for one or more of the other terms or conditions in the permit.
(9 VAC 5-80-1180 D 3)

2. **Emission Controls** - Emissions from the engine-generator sets shall be controlled by the following:
- a. Carbon monoxide (CO), nitrogen oxides (as NO₂), and volatile organic compound (VOC) emissions from the engine-generator sets shall be controlled by proper combustions practices.
 - b. Sulfur Dioxide (SO₂) emissions from the engine-generator sets shall be controlled by the use of low sulfur diesel fuel with a sulfur content not to exceed 0.05% by weight.
 - c. Proper combustion for and visible emissions from the engine-generator sets shall be controlled by the use of proper operating practices and performing maintenance in accordance with the manufacturer recommendations. In addition, the permittee may only change those settings that are permitted by the manufacturer and do not degrade the air emissions from the engine.
(9 VAC 5-80-1180)
3. **Monitoring** – The engine-generator sets shall be equipped with a non-resettable hour meter which measures the duration of time an engine is operated. See Condition 16 for recordkeeping requirements associated with this Condition.
(9 VAC 5-80-1180 D, 9 VAC 5-50-20 C and 9 VAC 5-50-260)

OPERATING LIMITATIONS

4. Operating Scenarios:

a. Emergency / Critical Power Generation:

- i. **Emergency:** The engine-generator sets may be operated in situations where immediate action on the part of the facility is needed due to a failure or loss of electrical power service resulting from a failure of the primary power provider and the failure or loss of power service is beyond the reasonable control of the facility. Operation under these circumstances shall be allowed for the period of time the primary electrical power provider service is unavailable. Once primary electrical power provider service is available the engine-generator sets may be operated in accordance with Critical Power Generation as defined below.
- ii. **ISO-Declared Emergency:** The engine-generator sets may be operated for participation in an Independent System Operator's (ISO) Emergency Load Response Program (ELRP) during times of an ISO-declared emergency, as defined in the ISO's emergency operations manual. Operations under this scenario shall not exceed 60 hours per engine-generator set each calendar year. The permittee shall submit notification to the Regional Air Permit Manager of the DEQ's Northern Regional Office (NRO) within thirty days of signing a contract to participate in the ELRP.
- iii. **Critical Power Generation:** The engine-generator sets may be operated in situations where immediate action on the part of the facility is needed due to a loss or anticipated loss of acceptable electrical power service from the primary provider and the loss or anticipated loss of power service is beyond the reasonable control of the

facility. Operation under these circumstances shall be allowed until such time as acceptable power provider service is restored or the loss of acceptable power provider service is no longer reasonably anticipated.

- b. **Alternate Power Generation:** Except as specified in subsection 4.c below, an engine-generator set may be operated voluntarily for the purposes of peak-shaving, demand response, or as part of an interruptible power supply arrangement with a power provider, other market participant, or system operator if the engine is equipped with a selective catalytic reduction system (SCR) that achieves the manufacturer's guaranteed maximum emission reductions based on fuel type. Operations, as outlined in this subsection, shall be allowed when an engine-generator set is operating at a load level necessary to sustain urea injection. Prior to construction of an SCR unit, when changing from Emergency Power Generation or Critical Power Generation to Alternate Power Generation, the permittee shall submit appropriate documentation to the Department of Environmental Quality (DEQ), and receive DEQ approval for the change in the method of operation of the engine-generator sets to ensure that the facility remains in compliance with the appropriate permitting requirements.
- c. The engine-generator sets may be operated for periodic maintenance, testing, and operational training.

Total emissions for any twelve month period, calculated as the sum of all emissions from operations under scenarios 4.a. through 4.c above shall not exceed the limits stated in Condition 9.

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

5. **Operating Hours** - The combined operating hours for the four engine-generator sets shall not exceed 1,700 hours per year, calculated monthly as the sum of each consecutive twelve month period. Refer to Condition 16 for record keeping requirements to demonstrate compliance with this condition
(9 VAC 5-80-1180)
6. **Fuel Specification**- The approved fuel for the engine-generator sets shall be diesel fuel oil that meets the specifications below:

DIESEL FUEL OIL:

- a. Conforms to American Society for Testing and Materials (ASTM) specification D975, for grade low sulfur 2-D or grade 2-D S500, or,
- b. Has a maximum sulfur content not to exceed 0.05% by weight (500 ppm), and either a minimum cetane number of forty or maximum aromatic content of thirty-five volume percent.

Exceedance of these specifications may be considered credible evidence of the exceedance of an emission limit. A change in the fuel may require a permit to modify and operate.

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

7. **Fuel Certification** - The permittee shall obtain a certification from the fuel supplier with each shipment of diesel fuel oil. Each fuel supplier certification shall include the following:
- a. The name of the fuel supplier; and
 - b. The date on which the diesel fuel oil was received; and
 - c. The quantity of diesel fuel oil delivered in the shipment; and
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- d. A statement that the diesel fuel oil conforms to the requirements of Condition 6 - Fuel Specification; or
 - e. Alternatively, the permittee shall obtain approval from the Regional Air Compliance Manager of the DEQ's Northern Regional Office (NRO) (at the address listed in Condition 13), if other documentation will be used to certify the diesel fuel oil type. Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by the DEQ, may be used to determine compliance with the fuel specifications stipulated in Condition 6.
(9 VAC 5-80-1180)

EMISSION LIMITS

8. **Emission Limits: Engine-Generator Sets** - Hourly emissions from the operation of each engine-generator set (Unit Ref. No's EG1 and EG2) shall not exceed the limits specified below:

Nitrogen Oxides (as NO ₂)	28.2 lbs/hr
Carbon Monoxide (CO)	12.9 lbs/hr
VOC	1.8 lbs/hr
Sulfur Dioxide (SO ₂)	0.8 lbs/hr
PM-10	1.3 lbs/hr

Hourly emissions from the operation of each engine-generator set (Unit Ref. No's EG3 and EG4) shall not exceed the limits specified below:

Nitrogen Oxides (as NO ₂)	28.9 lbs/hr
Carbon Monoxide (CO)	4.0 lbs/hr
VOC	0.8 lbs/hr
Sulfur Dioxide (SO ₂)	0.7 lbs/hr
PM-10	0.4 lbs/hr

(9 VAC 5-80-1180)

9. **Annual Emission Limits** – Combined annual emissions from operation of the four engine-generator sets shall not exceed the limits specified below:

Nitrogen Oxides (as NO ₂)	24.6 tons/yr
Carbon Monoxide (CO)	11.0 tons/yr
VOC	1.5 tons/yr
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Sulfur Dioxide (SO ₂)	0.7 tons/yr
PM-10	1.1 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits shall be determined as stated in Condition number 5, or by other means as approved by DEQ. (9 VAC 5-80-1180 and 9 VAC 5-50-260)

10. **Visible Emission Limit** - Visible emissions from the engine-generator set shall not exceed five percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed ten percent opacity, as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

During start-up and shut-down times, visible emissions from the engine-generator sets shall not exceed ten percent except during one six-minute period in any one hour in which visible emissions shall not exceed twenty percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). (VAC 5-80-1180, and 9 VAC 5-50-260 and 9 VAC 5-50-80)

INITIAL COMPLIANCE DETERMINATION

11. Performance Testing -

- a. **Stack Test:** An Initial performance test shall be conducted on one of the engine-generator sets (Ref. # EG3 and EG4) for nitrogen oxides (as NO₂) using EPA Reference Method 7 or 7E to determine compliance with the emission limits contained in Condition 8.
- Emissions testing of each pollutant for the selected engine-generator shall consist of three one-hour test runs under load. The average of the three runs shall be reported as the short-term emission rate for that engine-generator.
 - Testing shall be conducted with the engine operating at >90% capacity.
 - The tests shall be performed, reported, and demonstrate compliance within sixty days after achieving maximum power demand rate at which the facility will be operated but in no event later than 180 days after start-up of the permitted facility.

Tests shall be conducted and reported and data reduced as set forth in 9 VAC 5-50-30.

- iv. The details of the tests are to be arranged with the Regional Air Compliance Manager of the DEQ's NRO at the address listed in Condition 15. The permittee shall submit two copies, one paper copy and one on removable electronic media, of the test protocol to the Regional Air Compliance Manager of the DEQ's NRO and ~~one paper copy to the Regional Air Permit Manger of the DEQ's NRO at least thirty~~ days prior to testing to ensure adequate time for DEQ approval. If the test protocol is received by the DEQ with less than thirty days for review and acceptance, DEQ approval may not be issued in a timely manner to allow for testing to take place according to the permittee's schedule.
- v. Should conditions occur which would require rescheduling the testing, the permittee shall notify the Regional Air Compliance Manager of the DEQ's NRO (at the address listed in Condition 15) in writing, within seven days of the scheduled test date or as soon as the rescheduling is deemed necessary.
- vi. Two copies, one paper copy and one on removable electronic media, of the test results shall be submitted to the Regional Air Compliance Manager of the DEQ's NRO and one paper copy to the Regional Air Permit Manager of the DEQ's NRO (at the address listed in Condition 15) within sixty days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-50-30, 9 VAC 5-80-1200)

12. Initial Emissions Evaluation - Visible Emission Evaluations (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9, shall be conducted by the permittee on the remaining unit (Ref. #'s EG3 and EG4) not selected for initial stack testing in Condition 11.

- a. The VEE shall be performed on the exhaust stack of the engine operating at 90% or greater of its rated capacity.
- b. Each VEE shall consist of thirty sets of twenty four consecutive observations (at fifteen second intervals) to yield a six minute average. The details of the tests are to be arranged with the Regional Air Compliance Manager of the DEQ's NRO at the address listed in Condition 15.
- c. The details of the tests are to be arranged with the Regional Air Compliance Manager. The permittee shall submit a test protocol in conjunction with the initial stack test protocol as required by Condition 11 at least thirty days prior to testing to ensure adequate time for DEQ approval. If the test protocol is received by the DEQ with less than thirty days for review and acceptance, DEQ approval may not be issued in a timely manner to allow for testing to take place according to the permittee's schedule.
- d. The evaluation shall be performed within sixty days after achieving maximum production rate at which each engine-generator set will be operated, but in no event later than 180 days after start-up of each permitted engine-generator set.

- e. Should conditions occur which would require rescheduling the testing, the permittee shall notify the Regional Air Compliance Manager of the DEQ's NRO (at the address listed in Condition 15) in writing, within seven days of the scheduled test date or as soon as the rescheduling is deemed necessary. In any case the visible emissions testing shall be rescheduled within thirty days.
- f. Rescheduled testing shall be conducted under the same conditions (as possible) as the initial performance tests.
- g. Two copies, one paper copy and one on removable electronic media, of the test result shall be submitted to the Regional Air Compliance Manager of the DEQ's NRO (at the address listed in Condition 15) within sixty days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-50-30 and 9 VAC 5-80-1200)

CONTINUING COMPLIANCE DETERMINATION

- 13. **Stack Tests** - Upon request by the DEQ, the permittee shall conduct performance testing of the engine-generator set to demonstrate compliance with the emission limits contained in this permit. The details of the tests shall be arranged with the Regional Air Compliance Manager of the DEQ's NRO at the address listed in Condition 15.
(9 VAC 5-80-1200 and 9 VAC 5-50-30 G)
- 14. **Visible Emissions Evaluation** - Upon request by the DEQ, the permittee shall conduct visible emission evaluations of the engine-generator set to demonstrate compliance with the visible emission limits contained in this permit. The details of the VEE shall be arranged with the Regional Air Compliance Manager of the DEQ's NRO at the address listed in Condition 15.
(9 VAC 5-80-1200 and 9 VAC 5-50-30 G)

RECORDS AND NOTIFICATIONS

- 15. All correspondence concerning this permit should be submitted to the following address –

Regional Air Compliance Manager
Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193
(9 VAC 5-50-50)

- 16. **Initial Notifications** – The permittee shall furnish written notification to:

- a. The Regional Air Compliance Manager of the DEQ's NRO at the address listed in Condition 15 of:
 - i. The actual date on which construction of each engine-generator set (Ref. No.'s EG3 and EG4) commenced within thirty days after such date. The notification must include the following:

- a) Name and address of the permittee;
 - b) The address of the affected source;
 - c) Engine information including make, model, engine family, serial number, model year, maximum engine power and engine displacement;
 - d) Emission control equipment; and
 - e) Fuel used.
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- ii. The anticipated start-up date of each engine-generator set, (Ref. No.'s EG3 and EG4), postmarked not more than sixty days nor less than thirty days prior to such date.
 - iii. The actual start-up date of each engine-generator set (Ref. No.'s EG3 and EG4) within 15 days after such date. The actual start-up date shall be the date on which each engine completes manufacturer's trials, but shall be no later than thirty days after start-up for manufacturer's trials.
 - iv. The anticipated date of performance tests of each engine-generator set (Ref. No.'s EG3 and EG4) postmarked at least thirty days prior to such date.
(9 VAC 5-50-50 and 9 VAC 5-80-1180)

17. 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 Regional Air Compliance Manager of the DEQ's NRO at the address listed in Condition 15. These records shall include, but are not limited to:

- a. A monthly log of the hours of operation, date, and reason operated (as defined in Condition 4) for the engine-generator set, in accordance with Condition 3.
- b. Annual hours of operation for the engine-generator set, calculated monthly as the sum of each consecutive twelve month period, to demonstrate compliance with the requirements of Condition 5. Compliance for the consecutive twelve-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 eleven months.
- c. All fuel supplier certifications per Condition 7.
- d. A copy of the maintenance schedule and records of scheduled and unscheduled maintenance, in accordance with Condition 21.
- e. A record of operator training, in accordance with Condition 21.

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

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

GENERAL CONDITIONS

18. Certification of Documents –

- a. The following documents submitted to the Board shall be signed by a responsible official: (i) any emission statement, application, form, report, or compliance certification; (ii) any document required to be signed by any provision of the regulations of the Board; or (iii) any other document containing emissions data or compliance information the owner wishes the Board to consider in the administration of its air quality programs. A responsible official is defined as follows:
- i. For a business entity, such as a corporation, association or cooperative, a responsible official is either:
- A. The president, secretary, treasurer, or a vice president of the business entity in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the business entity; or
- B. A duly authorized representative of such business entity if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either (i) the facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars) or (ii) the authority to sign documents has been assigned or delegated to such representative in accordance with procedures of the business entity.
- ii. For a partnership or sole proprietorship, a responsible official is a general partner or the proprietor, respectively.
- b. Any person signing a document under subsection A. above shall make the following certification:
- "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."*
- c. Subsection B. shall be interpreted to mean that the signer must have some form of direction or supervision over the persons gathering the data and preparing the document (the preparers), although the signer need not personally nor directly supervise these activities. The signer need not be in the same line of authority as the preparers, nor do the persons gathering the data and preparing the form need to be employees (e.g., outside contractors can be used). It is sufficient that the signer has authority to assure that the necessary actions are taken to prepare a complete and accurate document.

- d. Any person who fails to submit any relevant facts or who has submitted incorrect information in a document shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information.
(9 VAC 5-20-230)

19. Permit Suspension/Revocation - The Board may suspend or revoke any permit if the permittee:

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- a. Knowingly makes material misstatements in the permit application or any amendments to it;
- b. Fails to comply with the terms or conditions of this permit;
- c. Fails to comply with any emission standards applicable to an emissions unit included in this permit;
- d. Causes emissions from the stationary source which result in violations of, or interfere with the attainment and maintenance of, any ambient air quality standard; or
- e. Fails to operate in conformance with any applicable control strategy, including any emission standards or emission limitations, in the implementation plan in effect at the time that an application is submitted.
(9 VAC 5-80-1010)

20. Right of Entry - The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:

- a. 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;
- b. 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;
- c. 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
- d. 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)

21. Maintenance/Operating Procedures - At all times, including periods of startup, shutdown, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information

available to the Regional Air Compliance Manager of the DEQ's NRO (at the address listed in Condition 15), which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to the engine-generator set:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
- b. Maintain an inventory of spare parts.
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- d. 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 5-40-20 E)

- 22. Record of Malfunctions** – The permittee shall maintain records of the occurrence and duration of any bypass, malfunction, shut-down or failure of the facility or its associated air pollution control equipment that results in excess emissions for more than one hour. The records shall be maintained in a form suitable for inspection and maintained for at least two years (unless a longer period is specified in the applicable emission standard) following the date of occurrence. Records shall include the date, time, duration, description (emission unit, pollutant affected, cause of the malfunction), corrective action, preventive measures taken and name of person generating the record.
(9 VAC 5-20-180 J)

- 23. Notification for Facility or Control Equipment Malfunction** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Regional Air Compliance Manager of the DEQ's NRO (at the address listed in Condition 15) by facsimile transmission, telephone, email, or telegraph of such failure or malfunction and shall within two weeks provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. When the condition causing the failure or malfunction has been corrected and the facility or control equipment is again in operation, the owner shall notify the Regional Air Compliance Manager of the DEQ's NRO at the address listed in Condition 15.
(9 VAC 5-20-180 C)

24. **Change of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current permit issued to the previous owner. The new owner shall notify the Regional Air Compliance Manager of the DEQ's NRO (at the address listed in Condition 15) of the change of ownership within thirty days of the transfer.
(9 VAC 5-80-940)
25. **Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.
(9 VAC 5-80-850)
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