



NRO-096-11

COMMONWEALTH of VIRGINIA

Douglas W. Domenech
Secretary of Natural Resources

DEPARTMENT OF ENVIRONMENTAL QUALITY
NORTHERN REGIONAL OFFICE
13901 Crown Court, Woodbridge, Virginia 22193-1453
(703) 583-3800 Fax (703) 583-3821
www.deq.virginia.gov

David K. Paylor
Director

April 14, 2011

Mr. Osvaldo Morales
Director Data Facilities
VADATA, Inc.
43831 Devin Shafron Drive
Ashburn, Virginia 20147-6983

Location: Loudoun County
Registration No.: 73868

Dear Mr. Morales:

Attached is a permit to construct and operate a portable generator in accordance with the provisions of the Commonwealth of Virginia State Air Pollution Control Board's (Board's) Regulations for the Control and Abatement of Air Pollution (Regulations).

This permit contains legally enforceable conditions. 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 February 28, 2011.

This permit approval to modify and operate shall not relieve VADATA, Incorporated of the responsibility to comply with all other local, state, and federal permit regulations. It should be noted the proposed engine-generator set (Ref No MEG-4) is an affected facility under 40 CFR 60, New Source Performance Standard (NSPS) Subpart IIII and 40 CFR 63, National Emission Standards for Hazardous Air Pollutants for Source Categories (MACT) Subpart ZZZZ. 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, the DEQ advises you to review both the NSPS and MACT 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. Both the NSPS and MACT 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

Event	Date	Initials
Code: <i>2</i>	4/14/11	EA
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QC		

Mr. Osvaldo Morales
VADATA, Inc.
April 14, 2011
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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 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) 583-3858.

Sincerely,



Terry H. Darton
Regional Air Permit Manager

TAF/THD/EHA/11-096-mnsr

Attachments: Permit

cc: Director, OAPP (electronic file submission)
Regional Air Compliance Manager (electronic file submission)
File



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David K. Paylor
Director

Thomas A. Faha
Regional Director

STATIONARY SOURCE PERMIT TO CONSTRUCT AND OPERATE
This permit includes designated equipment subject to
New Source Performance Standards (NSPS) and
National Emission Standards for Hazardous Air Pollutants for Source Categories (MACT)

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

VADATA, Incorporated
43831 Devin Shafron Drive
Ashburn, Virginia 20147
Registration No.: 73868

is authorized to modify and operate

A portable engine generator set (MEG-4)

to be located at

IAD -6 Data Center
43831 Devin Shafron Drive
Ashburn, Virginia 20147

in accordance with the Conditions of this permit.

Approved on

April 14, 2011


Thomas A. Faha,
Regional Director

Permit consists of 14 pages.
Permit Conditions 1 to 31.

INTRODUCTION

This permit approval is based on the permit application dated February 28, 2011. 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 and 9 VAC 5-10-10 of the Commonwealth of Virginia State Air Pollution Control Board's (Board's) Regulations (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 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 Board's 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 to be Constructed				
Reference No.	Equipment Description	Rated Capacity	Federal Requirements	Manufacture Date
MEG-4	One (1) Caterpillar, Model C27 Engine-Generator set	1141 bhp / 750 kW _e	9 VAC 5-50-410 and 9 VAC 5-60-100	2010

Equipment Exempt from Permitting				
Reference No.	Equipment Description	Rated Capacity	Exemption Citation	Exemption Date
MEG-4TK	One (1) diesel fuel oil storage tank	1,300 gallons	9 VAC 5-80-1320 B.8.	April 14, 2011

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 80-1180 D 3)

OPERATING LIMITATIONS

2. Operating Scenarios for Diesel Engine Generator Sets –

a. Emergency / Critical Power Generation

- i. **Emergency:** The engine generator set 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 set may be operated in accordance with Critical Power Generation as defined below:
- ii. **ISO Declared Emergency:** The engine generator set 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 generator 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 set 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:** Alternate Power Generation: Except as specified in subsection 2.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 the engine-generator set is operating at a load level necessary to sustain urea injection. Prior to construction of the SCR unit, when changing from Emergency Power 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 set.
- c. The engine-generator set 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 2.a. through 2.c above, shall not exceed the limits stated in Condition 10.

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

3. Monitoring –

- a. **Fuel Flow:** The engine generator set (Ref. No. MEG – 4) shall be equipped with a device to continuously measure and record fuel consumption (in gallons).
- b. **Engine Operating Hours:** The engine-generator set (Ref. No. MEG – 4) shall be equipped with a non-resettable hour meter which measures the duration of time that the engine is operated.

Each monitoring device shall be installed, maintained, calibrated, 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 engine is operating.

(9 VAC 5-80-1180 D, and 9 VAC 5-50-20 C)

- 4. **Monitoring Device Observation** - To ensure proper performance, the monitoring device used to continuously measure operating hours and fuel flow shall be observed by the permittee at a minimum frequency of once per day during days in which the engine-generator set is called into service. Refer to Condition 16 for record keeping requirements to demonstrate compliance with this condition.
(9 VAC 5-80-1180)

- 5. **Emission Controls** - Emissions from the engine-generator set shall be controlled by the following:

- a. Nitrogen oxides (as NO₂) emissions from the engine-generator set (Ref. No. MEG-4) shall be controlled by electronic fuel injection and turbocharged engine.
- b. Sulfur Dioxide (SO₂) emissions from the engine-generator set (Ref. No. MEG-4) shall be controlled by the use of ultra low sulfur diesel fuel oil with a sulfur content not to exceed 0.0015% by weight (15 ppm).
- c. Combustion and visible emissions from the engine-generator set (Ref. No. MEG-4) 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 and 9 VAC 5-50-260)

6. **Fuel Throughput** - The engine-generator set (Ref. No. MEG-4) shall not consume more than 13,380 gallons of fuel per year, calculated monthly as the sum of each consecutive 12-month period. Refer to Condition 16 for record keeping requirements to demonstrate compliance with this condition.
(9 VAC 5-80-1180)

7. **Fuel Specification** - The approved fuel for the engine-generator set (Ref. No. MEG-4) is ultra low sulfur diesel fuel oil, and shall meet the specifications below:

ULTRA LOW DIESEL FUEL OIL:

- a. Does not exceed the American Society for Testing and Materials (ASTM) specification, D975, for grade ultra-low sulfur 2-D or grade 2-D S0015, or,
- b. Has a maximum sulfur content not to exceed 0.0015% by weight (15 ppm), and either a minimum cetane number of forty or maximum aromatic content of thirty-five volume percent.

A change in the fuel type or the fuel sulfur content may require a permit to modify and operate.

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

8. **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;
 - b. The date on which the diesel fuel oil was received;
 - c. The quantity of diesel fuel oil delivered in the shipment;
 - d. A statement that the distillate oil complies with the requirements of Condition 7 Fuel Specification, or;
 - e. Alternately, the permittee shall obtain approval from the Regional Air Compliance Manager (RACM) of the DEQ's Northern Regional Office (NRO), at the address in Condition 17, 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 Conditions 5 and 7.

(9 VAC 5-80-1180)

EMISSION LIMITS

9. **Process Emission Limits** - Emissions from the operation of the engine-generator set (Ref. No. MEG-4) shall not exceed the limits specified below:

Pollutant	MEG - 4
Nitrogen Oxides (as NO ₂)	15.1 lbs/hr

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

10. **Annual Engine Generator Emission Limits** – Total emissions from the engine-generator set (Ref. No. MEG-4) shall not exceed the limits specified below:

Nitrogen Oxides (as NO₂) 1.7 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 by calculation methods as stated in Condition 11 or other means acceptable to DEQ.

(9 VAC 5-80-1180)

11. **Annual Emissions Calculations** – The total annual emissions of NO_x from the engine-generator set (Ref. No. MEG-4) shall be 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.

Monthly emissions shall be calculated using the following calculation method and applicable emission factor as listed in the tables below:

a. Emission Factor Tables

Reference No. MEG - 4	
Pollutant	Emission Factor (EF) (lb/gal)
Nitrogen Oxides (as NO ₂)	2.50E-1

- b. Emission Calculations: Monthly emissions for each pollutant shall be calculated using the following equations using the emission factors and the appropriate emission factors listed below:

$$\text{NO}_x^* = \frac{(\text{Total fuel consumption for Ref. No. MEG - 4 (in gallons)} \times 2.50\text{E-1 lb/gal})}{2000 \text{ lbs/ton}}$$

(9 VAC 5-80-1180)

12. **Visible Emission Limit** - Visible emissions from the engine-generator set (Ref. No. MEG-4) 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). During startup and shutdown, visible

emissions shall not exceed ten percent opacity, except for one six-minute interval not to exceed twenty percent opacity.

(9 VAC 5-80-1180, 9 VAC 5-50-260, and 9 VAC 5-170-160)

13. **Emissions Testing** - The engine-generator set (Ref. No. MEG-4) 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 in accordance with EPA Reference Method 1 (reference 40 CFR Part 60, Appendix A). In addition, safe sampling platforms and access shall be provided.
(9 VAC 5-50-30 F and 9 VAC 5-80-1180)

CONTINUING COMPLIANCE DETERMINATION

14. **Stack Tests** - Upon request by the DEQ, the permittee shall conduct performance testing of the engine-generator set (Ref. No. MEG-4) 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 17).
(9 VAC 5-80-1200 and 9 VAC 5-50-30 G)
15. **Visible Emissions Evaluation** - Upon request by the DEQ, the permittee shall conduct visible emission evaluations of the engine-generator set (Ref. No. MEG-4) 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 17).
(9 VAC 5-80-1200 and 9 VAC 5-50-30 G)

RECORDS

16. **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 17. These records shall include, but are not limited to:
- a. **Operation Log:** A monthly operation log shall be maintained and shall include, at a minimum, the following information:
 - i. Engine run hours (including idle time);
 - ii. Fuel consumption, and;
 - iii. Date and reason for operation as defined in Condition 2.
 - b. A monthly log of the monitoring device observations as required by Condition 4.
 - c. Annual fuel consumption of the engine generator set, calculated monthly as the sum of each consecutive twelve month period.

- d. Monthly and annual emissions calculations for NO_x (as NO₂) from the engine-generator set (Ref. No. MEG-4) using the calculation methods in Condition 11 to verify compliance with the applicable ton/yr emissions limitation in Condition 10. Annual emissions shall be calculated monthly as the sum of each consecutive twelve month period.
- e. All fuel supplier certifications.
- f. Results of all stack tests and visible emission evaluations.
- g. A copy of the maintenance schedule and records of scheduled and unscheduled maintenance in accordance with Condition 26.
- h. Operator training in accordance with Condition 26.
- i. Records of the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer.
- j. Records of changes in settings that are permitted by the manufacturer of the engine-generator set.

Compliance for the consecutive twelve month period referenced in subsections c. and d. above 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.

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)

NOTIFICATIONS

- 17. Initial Notifications** - The permittee shall furnish written notification to the Air Compliance Manager, Northern Regional Office at the address listed below:

Regional Air Compliance Manager
Department of Environmental Quality
13901 Crown Court
Woodbridge, VA 22193

- a. The actual date on which construction of the engine-generator set (Ref. No. MEG-4) commenced within thirty days after such date. The notification must include the following:
 - i. Name and address of the permittee,
 - ii. The address of the affected source,
 - iii. Engine information including make, model, engine family, serial number, model year, maximum engine power and engine displacement.

iv. Fuel used.

- b. The anticipated commencement date of manufacturer's trials for the engine generator set, postmarked within fifteen days prior to such date.
- c. The anticipated start up date of the engine generator set, (Ref. No. MEG-4), postmarked not more than sixty days nor less than thirty days prior to such date.
- d. The actual start-up date of the engine-generator set (Ref. No. MEG-) within fifteen days after such date. The actual start-up date shall be the date on which the engine completes manufacturer's trials, but shall be no later than thirty days after start-up for manufacturer's trials, unless otherwise approved by the DEQ.

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

PORTABLE FACILITIES

- 18. Relocation of Portable Facilities** – The permittee is authorized to apply for relocation of the engine generator set (Ref. No. MEG-4) to other project sites within Virginia under the provisions of 9 VAC 5-80-1320.A.1.c. Such requests will be evaluated on a case by case basis.

(9 VAC 5-170-160 and 9 VAC 5-80-1320 A.1.c)

- 19. Notification for Relocation of Portable Facilities** – Within five business days of relocation of the engine-generator set (Ref. No. MEG-4), the following information shall be submitted to the RACM of the DEQ's NRO at the address listed in Condition 17:

- a. The facility description and registration number,
- b. The date of the permit,
- c. The date of the relocation and the startup of the portable generator,
- d. The location and description of the proposed new site, including a map showing the exact location,
- e. The anticipated period of time the facility will be operated at the new site and the anticipated fuel consumption,
- f. The previous location of the equipment (prior to relocation),
- g. The actual period of operation and fuel consumed at the previous site (prior to relocation),
- h. The hours of operation and fuel throughput for the previous 12 consecutive months.

(9 VAC 5-80-1180 and 9 VAC 5-170-160 and 9 VAC 5-80-1320 A.1.c.)

20. **Operation of Portable Facilities** – The portable engine generator set (Ref. No. MEG-4) may not operate at any one single temporary site for a period in excess of eighteen months without written approval from the DEQ.
(9 VAC 5-80-1180 and 9 VAC 5-170-160 and 9 VAC 5-80-1320 A.1.c.)
21. **Operation at other Permitted facilities** - If the portable engine generator set (Ref. No. MEG-4) is to be operated at the site of another permitted stationary source, the emissions from the portable equipment shall be added to the emissions from the existing stationary source, and the total emissions shall not exceed the stationary source permit limits, as applicable.
(9 VAC 5-80-1180 and 9 VAC 5-170-160 and 9 VAC 5-80-1320 A.1.c.)

GENERAL CONDITIONS

22. 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:
1. 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.
 2. 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 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.

(9 VAC 5-20-230)

23. Permit Invalidation - This permit to construct the diesel engine-driven engine generator (Ref. No. MEG-4) shall become invalid, unless an extension is granted by the DEQ, if:

- a. A program of continuous construction is not commenced within the latest of the following:
 - i. Eighteen months from the date of this permit;
 - ii. Nine months from the date that the last permit or other authorization was issued from any other governmental entity;
 - iii. Nine months from the date of the last resolution of any litigation concerning any such permits or authorization; or
- b. A program of construction is discontinued for a period of eighteen months or more, or is not completed within a reasonable time, except for a DEQ approved period between phases of a phased construction project.

(9 VAC 5-80-1210)

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

- 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 a permitted emissions unit;

- 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 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; or
- e. Fails to comply with the applicable provisions of 9 VAC 5-80-1100 et seq.

(9 VAC 5-80-1210 F and 9 VAC 5-80-1210 G)

25. 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 and 9 VAC 5-80-1180)

26. 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.

The permittee shall take measures in order to minimize the duration and frequency of excess emissions, including the following:

- 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 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 and 9 VAC 5-80-1180 D)

- 27. 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 malfunction), corrective action, preventive measures taken and name of person generating the record.
(9VAC 5-20-180 J and 9 VAC 5-80-1180 D)
- 28. Notification for Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Regional Air Compliance Manager of the DEQ's NRO (at the address listed in Condition 17), of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone or telegraph. 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 Regional Air Compliance Manager of the DEQ's NRO.
(9 VAC 5-20-180 C and 9 VAC 5-80-1180)
- 29. Violation of Ambient Air Quality Standard** - Regardless of any other provision of this permit, the permittee shall, upon request of the DEQ, reduce the level of operation of the facility if the DEQ determines that is necessary to prevent a violation of any primary ambient air quality standard. Under worst case conditions, the DEQ may order that the permittee shut down the facility, if there is no other method of operation to avoid a violation of the ambient air quality standard. The DEQ reserves the right to prescribe the method of determining if a facility will cause such a violation. In such cases, the facility shall not be returned to operation until it and the associated air pollution control equipment are able to operate without violation of any primary ambient air quality standard.
(9 VAC 5-20-180 I and 9 VAC 5-80-1180)
- 30. 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 17 of the change of ownership within thirty days of the transfer.
(9 VAC 5-80-1240)

31. **Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.
(9 VAC 5-80-1180)