



NRO-007-13

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

NORTHERN REGIONAL OFFICE

Douglas W. Domenech
Secretary of Natural
Resources

13901 Crown Court, Woodbridge, Virginia 22193-1453
(703) 583-3800 Fax (703) 583-3821
www.deq.virginia.gov

David K. Paylor
Director

Thomas A. Faha
Regional Director

January 10, 2013

Mr. John Becker
Director, Facilities Business Continuity
Freddie Mac
8250 Jones Branch Drive
MS 544
McLean, Virginia 22102

Registration No.: 74020

Dear Mr. Becker:

Attached is a permit to construct and operate multiple diesel engine driven generator sets at your McLean Campus located at 8000, 8100, 8200, 8250 Jones Branch Drive and 1551 Park Run Drive in McLean, Virginia. 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).

Please read all permit conditions carefully, as this permit contains legally enforceable conditions. Failure to comply may result in appropriate enforcement.

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 September 11, 2012.

This permit approval to construct and operate shall not relieve Freddie Mac of the responsibility to comply with all other local, state, and federal permit regulations. It should be noted that any engine-generator on site, regardless of the date constructed, may be subject to 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 units, the DEQ advises you to review the 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. The 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

Event	Date	Initials
Code: MNR	1/10/13	EH6
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QC		

Mr. Becker
January 10, 2013
Page 2

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.

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 Elizabeth Aiken at 703.583.3890.

Sincerely,


James B. LaFratta
Regional Air Permit Manager

TAF/JBL/EHA/13-007-mnsr

Attachments: Permit

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



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David K. Paylor
Director

Thomas A. Faha
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,

Freddie Mac
8250 Jones Branch Drive, MS 544
McLean, Virginia 22102
Registration No.: 74020

is authorized to construct and operate

Emergency engine-generator sets

located at

8000, 8100, 8200, and 8250 Jones Branch Drive and
1551 Park Run Drive
McLean, Virginia

in accordance with the Conditions of this permit.

Approved on:

January 10, 2013

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

Thomas A. Faha,
Regional Director

Permit consists of 15 pages.
Permit Conditions 1 to 28

INTRODUCTION

This permit approval is based on the permit application dated August 8, 2012 and supplemental information dated September 11, 2012. 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 to be constructed and operated at 8000 Jones Branch Drive, Mclean, Virginia			
Reference No.	Equipment Description	Rated Capacity	Date of Manufacture
7	One (1) Caterpillar Model # 3516B engine-generator set	2060 kW _e (2999 bhp)	2000

Equipment to be constructed and operated at 8100 Jones Branch Drive, Mclean, Virginia			
Reference No.	Equipment Description	Rated Capacity	Date of Manufacture
5	One (1) Caterpillar Model # 3406 engine-generator set	361 kW _e (533 bhp)	1994
6	One (1) Caterpillar Model # 3508 Engine-generator set	930 kW _e (1324 bhp)	1994

Equipment to be constructed and operated at 8250 Jones Branch Drive, Mclean, Virginia			
Reference No.	Equipment Description	Rated Capacity	Date of Manufacture
3	One (1) Caterpillar Model # 3508 engine-generator set	930 kW _e (1324 bhp)	1993
4	One (1) Caterpillar Model # 3406 engine-generator set	361 kW _e (543 bhp)	1993

Equipment to be constructed and operated at 1551 Park Run Drive, Mclean, Virginia			
Reference No.	Equipment Description	Rated Capacity	Date of Manufacture
8	One (1) Cummins Model # DQKC engine-generator set	2000 kW _e (2922 bhp)	2000
9	One (1) Cummins Model # DQKC engine-generator set	2000 kW _e (2922 bhp)	2000
10	One (1) Cummins Model # DQKC engine-generator set	2000 kW _e (2922 bhp)	2000

Equipment exempt from permitting at 8200 Jones Branch Drive, Mclean, Virginia			
Reference No.	Equipment Description	Rated Capacity	Date of Manufacture
1	One (1) Caterpillar Model # 3508 engine-generator set	1000 kW _e (1450 bhp)	1989
2	One (1) Caterpillar Model # 3508 engine-generator set	760 kW _e (1095 bhp)	1989

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)

2. **Emission Controls** - Emissions from the engine-generator sets (Ref. #'s. 3, 4, 5, 6, 7, 8, 9, and 10) shall be controlled by the following:
 - a. Sulfur Dioxide (SO₂) emissions from the engine-generator sets shall be controlled by the use of low sulfur diesel fuel oil with a sulfur content not to exceed 0.05% by weight (500 ppm).
 - b. Proper combustion for and visible emissions from the engine-generator sets shall be controlled by the use of good operating practices and performing appropriate 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 engines.

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

3. **Monitoring** - Each engine-generator set shall be equipped with a non-resettable hour meter which measures the duration of time that an engine is operated. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the engines are 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 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 18 for record keeping requirements to demonstrate compliance with this condition.

(9 VAC 5-80-1180)

OPERATING LIMITATIONS

5. Operating Scenarios for Engine Generator Sets -

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 generator each calendar year.

- b. **Alternate Power Generation:** 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 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 set 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 5.a. through 5.c above, shall not exceed the limits stated in Condition 10.

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

- 6. **Operating Hours** - In addition to the annual emissions limits contained in Condition 10, no single engine-generator set (Ref. #'s 3, 4, 5, 6, 7, 8, 9, and 10) shall exceed 500 hours of operation per year, calculated monthly as the sum of each consecutive twelve month period. Refer to Condition 18 for record keeping requirements to demonstrate compliance with this condition.
(9 VAC 5-80-1180)
- 7. **Fuel Specification** - The approved fuels for the engine-generator sets shall be diesel fuel oil that meets the specifications below:

DIESEL FUEL OIL:

- a. Does not exceed the 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.

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; 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
 - d. A statement that the diesel fuel oil conforms to the requirements of the Condition 7 - Fuel Specification; or

- e. Alternatively, the permittee shall obtain approval from the Regional Air Compliance Manager of the DEQ's Northern Regional Office (NRO) if other documentation will be used to certify the diesel fuel oil type.

Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.
(9 VAC 5-80-1180)

EMISSION LIMITS

9. **Emission Limits: Engine-generator set** - Hourly emissions from the operation of each engine-generator set (Ref. #'s 3, 4, 5, 6, 7, 8, 9, and 10) shall not exceed the limits specified below:

Ref. No.	NOx (lb/hr)	CO (lb/hr)	VOC (lb/hr)	SO2 (lb/hr)	PM10 (lb/hr)
3	37.40	2.03	0.78	0.54	0.31
4	9.23	9.65	0.15	0.22	2.82
5	9.23	9.65	0.15	0.22	2.82
6	37.40	2.03	0.78	0.54	0.31
7	38.83	6.94	1.69	1.21	1.10
8, 9, and 10 (each)	35.43	2.66	0.81	1.18	0.64

The hourly emissions are derived from manufacturer's data at maximum design capacity of the diesel engines. Compliance with the hourly emission limit may be based on testing, if required by DEQ.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

10. **Annual Engine-Generator Emission Limits** - Total emissions from all engine-generator sets (Ref. #'s 3, 4, 5, 6, 7, 8, 9, and 10) shall not exceed the limits specified below:

Nitrogen Oxides (as NO ₂)	49.4 tons/yr
Carbon Monoxide (CO)	9.58 tons/yr
Volatile Organic Compounds (VOC)	1.51 tons/yr
Sulfur Dioxide (SO ₂)	1.55 tons/yr
Particulate Matter (PM10)	2.34 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 each regulated pollutant from the engine-generator sets (Ref. #'s 3, 4, 5, 6, 7, 8, 9, and 10) shall be calculated monthly as the sum of each consecutive twelve-month period. Refer to Condition 18 for record keeping requirements to demonstrate compliance with this condition.

- a. Emissions Calculations: Monthly emissions for each pollutant shall be calculated using the following equation and the appropriate emission factors listed below:

$$\text{Pollutant} = [(\text{Total monthly hours of operation of engine-generator set 3} \times \text{lb/hr}) + (\text{Total monthly hours of operation of engine-generator set 4} \times \text{lb/hr}) + (\text{Total monthly hours of operation of engine-generator set 5} \times \text{lb/hr}) + (\text{Total monthly hours of operation of engine-generator set 6} \times \text{lb/hr}) + (\text{Total monthly hours of operation of engine-generator set 7} \times \text{lb/hr}) + (\text{Total monthly hours of operation of engine-generator set 8} \times \text{lb/hr}) + (\text{Total monthly hours of operation of engine-generator set 9} \times \text{lb/hr}) + (\text{Total monthly hours of operation of engine-generator set 10} \times \text{lb/hr})] \div 2000$$

- b. Emission Factors:

Ref. No.	NOx (lb/hr)	CO (lb/hr)	VOC (lb/hr)	SO2 (lb/hr)	PM10 (lb/hr)
3	37.40	2.03	0.78	0.54	0.31
4	9.23	9.65	0.15	0.22	2.82
5	9.23	9.65	0.15	0.22	2.82
6	37.40	2.03	0.78	0.54	0.31
7	38.83	6.94	1.69	1.21	1.10
8, 9, and 10 (each)	35.43	2.66	0.81	1.18	0.64

(9 VAC 5-80-1180)

12. Visible Emission Limit - Visible emissions from the engine-generator sets (Ref. #'s 3, 4, 5, 6, 7, 8, 9, and 10) 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 generators (Ref. #'s 3, 4, 5, 6, 7, 8, 9, and 10) 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, 9 VAC 5-50-260 and 9 VAC 5-50-80)

CONTINUING COMPLIANCE DETERMINATION

13. **Stack Tests** - Upon request by the DEQ, the permittee shall conduct performance testing of the engine-generator sets (Ref. #'s 3, 4, 5, 6, 7, 8, 9, and 10) 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.
(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 sets (Ref. #'s 3, 4, 5, 6, 7, 8, 9, and 10) 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.
(9 VAC 5-80-1200 and 9 VAC 5-50-30 G)
15. **Testing/Monitoring Ports** - 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 by the DEQ 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 AND NOTIFICATIONS

16. 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)

17. **Emission Statement** - The owner of a stationary source emitting twenty-five tons per year or more of volatile organic compounds or nitrogen oxides shall submit a completed emission statement to the Regional Air Compliance Manager of the DEQ's NRO by April 15th of each year for the emissions discharged during the previous calendar year. The emission statement shall be prepared and submitted in the appropriate format.
(9 VAC 5-20-160 B)
18. **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. These records shall include, but are not limited to:
- a. A record of the date, reason engines operated (as defined in Condition 5), and engine run time for each engine (Ref. #'s 3, 4, 5, 6, 7, 8, 9, and 10) to demonstrate compliance with Condition 4 and 5.

- b. A log of observations of the monitoring systems to demonstrate compliance with Condition 4.
- c. Annual hours of operation of each engine-generator set (Ref. #'s 3, 4, 5, 6, 7, 8, 9, and 10) calculated monthly as the sum of each consecutive twelve month period to demonstrate compliance with Condition 6.
- d. All fuel supplier certifications, as required in Condition 8.
- e. Monthly and annual emissions calculations for NO_x (as NO₂), CO, SO₂, VOC, and PM₁₀ from the engine-generator sets (Ref #'s 3, 4, 5, 6, 7, 8, 9, and 10) using the calculation methods in Condition 11 to verify compliance with the ton/yr emissions limitations in Condition 10.
- f. A copy of the maintenance schedule and records of scheduled and unscheduled maintenance in accordance with Condition 22.
- g. All stack tests, visible emission evaluations and performance evaluations.

Compliance for the consecutive twelve-month period referenced in Subsections c. and e. 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)

GENERAL CONDITIONS

19. 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.
- iii. For a municipality, state, federal, or other public agency, a responsible official is either a principal executive officer or ranking elected official. A principal executive officer of a federal agency includes the chief executive officer having responsibility for the overall operations of the principal geographic unit of the agency.
- 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.

20. **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 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 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)

21. **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)

22. **Maintenance/Operating Procedures** - At all times, including periods of startup, shutdown, soot blowing 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 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 air pollution control equipment and process equipment which affect such emissions:

- 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 5-50-20 E and 9 VAC 5-80-1180 D)

23. **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.
(9 VAC 5-20-180 J and 9 VAC 5-80-1180 D)
24. **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 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.
(9 VAC 5-20-180 C and 9 VAC 5-80-1180)
25. **Notification for Control Equipment Maintenance** - The permittee shall furnish notification to the Regional Air Compliance Manager of the DEQ's NRO in case of shutdown or bypassing, or both, of air pollution control equipment for necessary scheduled maintenance, which results in excess emissions for more than one hour. The intent to shut down or bypass such equipment shall be reported to the Regional Air Compliance Manager of the

DEQ's NRO and local air pollution control agency, if any, at least twenty-four hours prior to the planned shutdown. Such prior notice shall include, but is not limited to the following information:

- a. Identification of air pollution control equipment to be taken out of service, as well as its location and registration number;
- b. The expected length of time that the air pollution control equipment will be out of service;
- c. The nature and quantity of emissions of air pollution likely to occur during the shutdown period; and
- d. Measures that will be taken to minimize the length of the shutdown or to negate the effect of the outage.

(9 VAC 5-20-180 B)

26. **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)

27. **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 of the change of ownership within thirty days of the transfer.

(9 VAC 5-80-1240 B)

28. **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)