



NRO-002-09

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

NORTHERN REGIONAL OFFICE

13901 Crown Court, Woodbridge, Virginia 22193

(703) 583-3800 Fax (703) 583-3821

www.deq.virginia.gov

David K. Paylor
Director

L. Preston Bryant, Jr.
Secretary of Natural Resources

January 9, 2009

Mr. Michael Christie
Facilities Manager
Gannett Co., Inc
7950 Jones Branch Drive
McLean, VA 22107

Registration Number: 73230

Dear Mr. Christie:

Attached is a permit to operate four engine-generator sets located at 7950 Jones Branch 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).

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 September 30, 2008 and solicited written public comments by placing a newspaper advertisement in The Washington Examiner on November 21, 2008.

This permit approval to operate shall not relieve Gannett Co., Inc. of the responsibility to comply with all other local, state, and federal permit regulations.

The Board's Regulations as contained in Title 9 of the Virginia Administrative Code (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

Event	Date	Initials
Code: SOP	1/9/09	EA
Scanned		
QC		

Mr. Christie
January 9, 2009
Page 2

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 703.583.3800.

Sincerely,



Terry H. Darton
Regional Air Permit Manager

TAF/THD/EHA/09-002-SOP

Attachment: Permit

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



NRO-002-09

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

NORTHERN REGIONAL OFFICE

13901 Crown Court, Woodbridge, Virginia 22193

(703) 583-3800 Fax (703) 583-3821

www.deq.virginia.gov

Preston Bryant
Secretary of Natural Resources

David K. Paylor
Director

Thomas A. Faha
Regional Director

STATIONARY SOURCE PERMIT TO OPERATE

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

Gannett Co., Inc
7950 Jones Branch Drive
McLean, VA 22107

Registration No.: 73230

is authorized to operate

Four engine-generator sets

located at

7950 Jones Branch Drive
McLean, VA 22107

in accordance with the Conditions of this permit.

Approved on:

January 9, 2009

Thomas A. Faha,
Regional Director

- Permit consists of 12 pages.
Permit Conditions 1 to 24.

INTRODUCTION

This permit approval is based on the permit application dated December 11, 2007, and supplemental information dated January 22, 2008; February 21, 2008, July 29, 2008 and September 30, 2008. 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 5-80-810 (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 permitted:			
Reference No.	Equipment Description	Rated Capacity	Date of Manufacture
1-4	Four (4) CAT 3508 B engine-generator sets	1000 ekW (1502 bhp)	May, 1999

Equipment exempt from permitting:				
Reference No.	Equipment Description	Rated Capacity	Exemption Citation	Exemption Date
AST 1-4	Four (4) above ground storage tanks (AST) for diesel fuel oil	6,000 gallons	9 VAC 5-80-1320 (b)	01/09/09

	Offset printing presses	20 inch	9 VAC 5-40-7800	01/09/09
--	-------------------------	---------	-----------------	----------

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 5-80-850)

2. **Emission Controls** - Emissions from the engine-generator sets (Ref. No. 1-4) shall be controlled by the following:
 - a. Visible emissions from the engine-generator sets shall be controlled by the use of clean fuel and good operating practices.
 - b. Sulfur dioxide (SO₂) emissions from the engine-generator sets shall be controlled by the use diesel fuel with a sulfur content not to exceed 0.05% by weight.
 - c. Carbon monoxide (CO), nitrogen oxides (as NO₂) and volatile organic compounds (VOC) emissions from the engine-generator sets shall be controlled by good combustions practices.
 - d. Combustion and visible emissions from the engine-generator sets shall be controlled by the use of good 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 engines.
(9 VAC 5-80-850)
3. **Monitoring** – Each engine-generator (Ref. No. 1-4) set shall be equipped with an hour meter which measures the period that each engine is operated. A monthly log shall be maintained of all hours each engine generator set is operated, and shall provide the corresponding dates and reason the unit was operated, as defined in Condition 4.
(9 VAC 5-80-890)

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. 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 subsections 4.c and 4.d 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 sets may be operated for participation in PJM's Emergency Load Response Program (ELRP) during times of a PJM declared emergency, as defined in the PJM Manual 13 Emergency Operations. Operations under this scenario shall not exceed 60 hours per generator each calendar year.
- d. The engine-generator sets may be operated for periodic maintenance, testing, and operational training.

Total annual emissions, calculated as the sum of all emissions from operations under scenarios a. through d. above, shall not exceed the limits stated in Condition 9.

(9 VAC 5-80-850)

- 5. **Operation of the Engine-Generator Sets** - The permittee must operate and maintain each engine-generator set according to the manufacturer's written instructions or procedures developed by the permittee that are approved by the

engine manufacturer. In addition, the permittee may only change those settings that are permitted by the manufacturer and do not degrade on air emissions.
(9 VAC 5-80-850)

6. **Fuel Specification-** The approved fuel for the engine-generator sets is diesel fuel oil that shall meet 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.

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

(9 VAC 5-80-850)

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
- d. A statement that the diesel fuel oil conforms to the requirements of the 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 in Condition 14), 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. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.

(9 VAC 5-80-850)

EMISSION LIMITS

8. **Emission Limits: Engine-Generator Sets** - Hourly emissions from the operation of each engine-generator set (Ref. No 1-4) shall not exceed the limits specified below:

Nitrogen Oxides (as NO ₂)	40.87 lbs/hr
Carbon Monoxide (CO)	2.97 lbs/hr

The hourly emissions are derived from manufacturer's data at maximum design capacity of the diesel engines. Compliance with the hourly NOx emission limit may be based on testing, if required by DEQ.
(9 VAC 5-80-850)

9. **Annual Engine-Generator Emission Limits** - Total combined emissions from all engine-generator sets (Ref. No. 1-4) shall not exceed the limits specified below:

Nitrogen Oxides (as NO ₂)	20.44 tons/yr
Carbon Monoxide (CO)	1.49 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 10, or by other means as approved by DEQ.
(9 VAC 5-80-850)

10. **Annual Emissions Calculations** – The total annual emissions of each regulated pollutant from the diesel engine-generator sets shall be calculated monthly as the sum of each consecutive twelve-month period. 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.

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

$$\text{NOx} = (\text{Total monthly hours of operation of the engine-generator sets} \times 40.87 \text{ lb/hr}) \div 2000$$

$$\text{CO} = (\text{Total monthly hours of operation of the engine-generator sets} \times 2.97 \text{ lb/hr}) \div 2000$$

(9 VAC 5-80-850)

11. **Visible Emission Limit** - Visible emissions from the engine-generator sets (Ref. No. 1-4) shall not exceed twenty percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed thirty 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.
(VAC 5-80-850 and 9 VAC 5-50-80)

CONTINUING COMPLIANCE DETERMINATION

12. **Stack Tests** - Upon request by the DEQ, the permittee shall conduct performance testing of the engine-generator sets (Ref. No. 1-4) 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 14.

(9 VAC 5-80-880 and 9 VAC 5-50-30 G)

13. **Visible Emissions Evaluation** - Upon request by the DEQ, the permittee shall conduct visible emission evaluations of the engine-generator sets (Ref. No. 1-4) 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 14.

(9 VAC 5-80-880 and 9 VAC 5-50-30 G)

RECORDS AND NOTIFICATIONS

14. 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)

15. **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 the Condition 14.

These records shall include, but are not limited to:

- a. A monthly log of the hours of operation, date, and reason operated for each engine-generator set, in accordance with Condition 3.
- b. Monthly and annual emissions calculations for NO_x (as NO₂) and CO from the engine-generator sets (Ref. No.1-4) using the calculation methods in Condition 10 to verify compliance with the ton/yr emissions limitations in Condition 9.
- 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 19.
- e. A record of operator training, in accordance with Condition 19.
- f. Records of the occurrence and duration of any bypass, malfunction, shutdown or failure of the facility or its associated air pollution control equipment that results in excess emissions for more than one hour. 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 the occurrence.
- g. Records of the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer.
- h. Records of changes in settings that are permitted by the manufacturer of the engine-generator sets.

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 5-80-900 and 9 VAC 5-50-50)

GENERAL CONDITIONS

16. 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.

(9 VAC 5-20-230)

17. 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 5-80-1010)

18. 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 5-80-850)

19. 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 14), 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 four engine-generator sets:

- 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 5-80-850)

20. 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 5-80-850)

- 21. 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 14) 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 14.

(9 VAC 5-20-180 C and 9 VAC 5-80-850)

- 22. 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)

- 23. 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 14) of the change of ownership within thirty days of the transfer.

(9 VAC 5-80-940)

- 24. Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.

(9 VAC 5-80-860 D)