

Nancy Coats

From: LaFratta, James (DEQ) <James.LaFratta@deq.virginia.gov>
Sent: Friday, May 03, 2013 9:46 AM
To: Nancy Coats
Cc: Faha, Thomas (DEQ); Gayne, Elizabeth (DEQ)
Subject: DEQ Draft Air Permit for Norfolk Southern's Ethanol Transloading Facility
Attachments: 13-xxx-mNSR (5-2-13).docx

Dear Ms. Coats,

Would you please see that Mr. Rashad Young receives this email and attachment. Thank you.

Dear Mr. Young

The purpose of this email is to let you know that the Virginia Department of Environmental Quality has prepared a draft air permit for Norfolk Southern for the proposed expansion of their ethanol transloading facility located at 1000 South Van Dorn Street, Alexandria, VA 22304.

With air permit application received in January 2013, Norfolk Southern proposed an increase in the number of rail cars offloaded at the facility from 14 cars per day to 30 cars per day, requiring additional pumping capacity. The current activities at the facility have been previously exempt from DEQ's air permitting requirements; however, the proposed expansion triggers the need for an air permit.

Please find attached the draft air permit that we have prepared for the proposed facility expansion. If you have any questions on the draft permit, please feel free to contact Elizabeth Gayne at (703) 583-3890 or via email at elizabeth.gayne@deq.virginia.gov or me at (703) 583-3928 or via email at james.lafratta@deq.virginia.gov.

Thank you.

James B. LaFratta
Regional Air Permit Manager
Northern Regional Office
Virginia Department of Environmental Quality
13901 Crown Court
Woodbridge, Virginia 22193

(703) 583-3928 (phone)
(703) 583-3821 (fax)

james.lafratta@deq.virginia.gov (email)



NRO-xxx-13

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

NORTHERN REGIONAL OFFICE

13901 Crown Court, Woodbridge, Virginia 22193
(703) 583-3800 Fax (703) 583-3821

Douglas W. Domenech
Secretary of Natural
Resources

David K. Paylor
Director

Thomas A. Faha
Regional Director

XXXX

Mr. David F. Julian
Vice President, Safety and Environmental
Norfolk Southern Thoroughbred Bulk Transfer
1200 Peachtree St. SE, Box 73
Atlanta, Georgia 30309

Registration No.:74037

Dear Mr. Julian:

Attached is a permit to modify and operate an ethanol transloading facility located in Alexandria, Virginia 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 a Notice of Violation and/or civil charges. 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 xxx [and solicited written public comments by placing a newspaper advertisement in the _____ on _____. A public hearing was held on _____. The required comment period, provided by 9 VAC 5-80-1170 D expired on _____].

This permit approval to modify and operate shall not relieve Norfolk Southern Thoroughbred Bulk Transfer (Norfolk Southern) 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 made the decision. Please consult the relevant regulations for additional requirements for such requests.

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

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

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

If you have any questions concerning this permit, please Elizabeth Gayne at 703.583.3890.

Sincerely,

James B. LaFratta
Regional Air Permit Manager

TAF/JBL/EHG/13-xxx-mnsr

Attachment: Permit

cc: Manager/Inspector, Air Compliance
File



NRO-xxx-13

COMMONWEALTH of VIRGINIA

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NORTHERN REGIONAL OFFICE

13901 Crown Court, Woodbridge, Virginia 22193

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

Douglas W. Domenech
Secretary of Natural
Resources

David K. Paylor
Director

Thomas A. Faha
Regional Director

STATIONARY SOURCE PERMIT TO MODIFY AND OPERATE

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

Norfolk Southern Thoroughbred Bulk Transfer
1200 Peachtree St. NE, Box 73
Atlanta, Georgia 30309

Registration No.: 74037

is authorized to modify and operate

An Ethanol Transloading Facility

located at

1000 South Van Dorn Street
Alexandria, Virginia 22304

in accordance with the Conditions of this permit.

Approved on: xxx.

Thomas A. Faha,
Regional Director

Permit consists of 8 pages.
Permit Conditions 1 to 21.

INTRODUCTION

This permit approval is based on the permit application dated January 4, 2013 and supplemental information dated February 22, 2013. Additional correspondence regarding this facility include letter dated March 28, 2013 and April 4, 2013. 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 permitted at this facility consists of the following:

Equipment to be Installed and Operated			
Reference No.	Equipment Description	Rated Capacity	Federal Requirements
001 - 005	Five (5) Portable Bulk Liquid Transfer Pumps	450 gallons per minute (each)	N/A

Specifications included in the permit under this Condition are for informational purposes only and do not form enforceable terms or conditions of the permit.
(9 VAC 80-1180 D 3)

2. **Emission Controls** – Volatile Organic Compound (VOC) emissions from the ethanol transfer operations shall be controlled by use of a closed loop vapor balance control system. The vapor balance control system shall be provided with adequate access for inspection and shall be in service at all times when ethanol offloading is occurring.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

3. **Control Efficiency** – The vapor balance control system shall maintain a control efficiency for VOC emissions of no less than 98.7 percent, by design. Refer to Condition 12 for recordkeeping requirements to demonstrate compliance with this condition.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

4. **Fugitive Dust and Fugitive Emission Controls** – Fugitive dust and fugitive emission controls shall include the following, or equivalent, as approved by DEQ:
 - a. Application of asphalt, water, or suitable chemicals on dirt roads and other surfaces which may create airborne dust; paving of roadways, and maintenance of roadways in a clean condition.
 - b. At no time shall there be avoidable visible ethanol liquid leaks.

(9 VAC 5-50-90 and 9 VAC 5-80-1180)

5. **VOC Work Practice Standards** – At all times the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with good air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, discarded in sewers which are not connected to a treatment plant, or stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution practices for minimizing emissions.
(9 VAC 5-50-20 F and 9 VAC 5-80-1180)

MONITORING REQUIREMENTS

6. **Monitoring** – The permittee will employ a combination of odor detection, sound and visual recognition by the employees to detect leaking components during liquid transfer. Valves and flanges will be visually inspected daily (when transfer operations occur) before the liquid transfer operation begins and an olfactory sniff test shall be performed during operation. If leakage or odors are detected, the transfer operation shall cease until the leaking component is either repaired or replaced. The permittee may use a "soap bubble" test to confirm suspected leaks identified by the visual and olfactory inspections. Records of maintenance, including repairs and parts replacement, shall be kept on site and shall be available for inspection.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

7. **Monitoring** – Each calendar month, the closed loop vapor recovery system shall be inspected during the loading of account trucks for liquid or vapor leaks. For purposes of these inspections, detection methods incorporating sight, sound, or smell is acceptable. Each leak detected on the closed loop vapor balance system shall be recorded and the source of the leak repaired within fifteen calendar days after it is detected.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

OPERATING LIMITATIONS

8. **Throughput** – The annual throughput of denatured ethanol shall not exceed 317,550,000 gallons per year, calculated monthly as the sum of each consecutive twelve-month period. Refer to Condition 12 for recordkeeping requirements to demonstrate compliance with this condition.
(9 VAC 5-80-1180)

EMISSION LIMITS

9. **Ethanol Transfer Emission Limits** – Emissions from the ethanol transfer operations shall not exceed the limits specified below:

Volatile Organic Compounds	0.15 lbs/1000 gallons	24.1 tons/yr
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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 may be determined by demonstrating compliance with Conditions 3 and 8, or by other means as approved by DEQ.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

CONTINUING COMPLIANCE DETERMINATION

10. **Performance Tests** – Upon request by the DEQ, the permittee shall conduct performance tests for VOCs from the ethanol transfer facility to demonstrate compliance with the emission limits and control efficiency requirements 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)

RECORDS

11. All correspondence concerning this permit shall 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 5-40-50)

12. **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 NRO. These records shall include, but are not limited to:
- a. Annual throughput of ethanol, calculated monthly as the sum of each consecutive twelve month period, to demonstrate compliance with the requirements of Condition 8. Compliance for the consecutive twelve-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding eleven months.
 - b. Annual VOC emissions in tons, calculated monthly as the sum of each consecutive twelve month period, to demonstrate compliance with the requirements of Condition 9. Compliance for the consecutive twelve-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding eleven months.
 - c. Records of the inspection of each incoming rail car and tanker truck vapor tightness certification, including the certification date.
 - d. Operation and monitoring records of the vapor balance system, including records of visual and olfactory inspections performed with each transfer operation, to demonstrate compliance with the requirements of Condition 6 and 7.
 - e. Manufacturer's data stating the design control efficiency of the closed loop vapor balance system to demonstrate compliance with Condition 3.
 - f. Scheduled and unscheduled maintenance and operator training, in accordance with Condition 15.

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

13. **Permit Suspension/Revocation** – This permit may be suspended or revoked if the permittee:
- a. Knowingly makes material misstatements in the permit application or any amendments to it;
 - b. Fails to comply with the conditions of this permit;
 - c. Fails to comply with any emission standards applicable to a permitted an emissions unit, included in this permit;

- d. Causes emissions from the stationary source which result in violations of, or interfere with the attainment and maintenance of, any ambient air quality standard; or
- e. Fails to operate in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect at the time an application for this permit is submitted.

(9 VAC 5-80-1210 F)

14. 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)

15. 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 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)

- 16. Record of Malfunctions** – The permittee shall maintain records of the occurrence and duration of any bypass, malfunction, shutdown or failure of the facility or its associated air pollution control equipment that results in excess emissions for more than one hour. Records shall include the date, time, duration, description (emission unit, pollutant affected, cause 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)

- 17. Notification for Facility or Control Equipment Malfunction** – The permittee shall furnish notification to the Regional Air Compliance Manager of the DEQ's NRO 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)

- 18. Notification for Control Equipment Maintenance** – The permittee shall furnish notification to the Regional Air Compliance Manager of the DEQ's NRO of the intention to shut down or bypass, or both, air pollution control equipment for necessary scheduled maintenance, which results in excess emissions for more than one hour, at least twenty-four hours prior to the shutdown. The notification shall include, but is not limited to, the following information:

- a. Identification of the 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 pollutants likely to occur during the shutdown period;
- 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)

19. **Violation of Ambient Air Quality Standard** – The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.
(9 VAC 5-20-180 I and 9 VAC 5-80-1180)
20. **Change of Ownership** – In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current 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)
21. **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)