NRO-227-14

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

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

Thomas A. Faha
Regional Director

December 12, 2014

Mr. Michael Callegari
Manager, Environmental Services
Transcontinental Gas Pipe Line Company, LLC
2800 Post Oak Blvd
Houston, TX 77056

Location: Orange County
Registration No.: 40782
County-Plant ID No.: 137-00027

Dear Mr. Callegari:

Attached is a renewal Title V permit to operate Transco's Compressor Station 180 pursuant to 9 VAC 5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil penalty. Please read all conditions carefully.

This approval to operate does not relieve Transcontinental Gas Pipe Line Company, LLC of the responsibility to comply with all other local, state, and federal permit regulations.

Issuance of this permit is a case decision. The Regulations, at 9 VAC 5-170-200, provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this permit is mailed or delivered to you. Please consult that and other relevant provisions for additional requirements for such requests.

Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 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 to court by filing a Notice of Appeal with:

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

In the event that you receive this permit by mail, three days are added to the period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for additional information including filing dates and the required content of the Notice of Appeal.

If you have any questions concerning this permit, please contact Justin Wilkinson at (703)583-3820.

Sincerely,

James B. LaFratta
Regional Air Permit Manager

TAF/JBL/JAW/14227TV

Attachment: Permit

cc: Director, OAPP (electronic file submission)
Manager, Data Analysis (electronic file submission)
Chief, Air Enforcement Branch (3AP13), U.S. EPA, Region III
Manager/Inspector, Air Compliance
File

NRO-227-14

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

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

Thomas A. Faha
Regional Director

Federal Operating Permit
Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Contriol and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated, or expires, the permittee is authorized to operate in accordance with the terms and conditions herein. The permit is issued under the authority of Title 10.1, Chapter 12, § 10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300, of the State Air Pollution Control Board Regulations of the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Transcontinental Gas Pipe Line Company, LLC
Facility Name:	Compressor Station 180
Facility Location:	7444 Everona Road Unionville, Virginia 22567 (Orange County)
Registration Number:	40782
Permit Number:	NRO-40782

This permit includes the following programs:

Federally Enforceable Requirements – Clean Air Act (Pages 5 through 34)

December 12, 2014
Effective Date

December 11, 2019
Expiration Date

Thomas A. Faha
Regional Director

December 12, 2014
Signature Date

Table of Contents, 1 page
Permit Conditions, 34 pages

Table of Contents

Facility Information **1**

Emission Units **2**

NOx SIP Call Phase II Fuel Burning Equipment Requirements – (Unit ID Nos. M/L 8, M/L 10, and M/L 14) **5**

- Definitions 5
- Limitations 6
- Monitoring 8
- Testing 10
- Recordkeeping 11
- Reporting 11
- General 12

Non-NOx SIP Call Phase II Fuel Burning Equipment Requirements – Compressor Engine Requirements – (Unit ID Nos. M/L 1 through M/L 14) **12**

- Limitations 12
- Monitoring 14
- Maintenance/Operating Procedures 14
- Recordkeeping 15

Fuel Burning Equipment Requirements – Auxiliary Electric Power Generators and Emergency Air Compressor – (AUX01 through AUX03 and A/C 1) **15**

- Limitations 15
- Monitoring 16
- Recordkeeping 17

National Emissions Standards for Hazardous Air Pollutants (NESHAP) MACT Subpart ZZZZ Requirements – (Ref. Nos. AUX01 through AUX03 and A/C 1) **17**

- Limitations 17
- Recordkeeping 19
- Notifications 19
- Reporting 20
- General 20

Facility Wide Conditions **20**

- Testing 20
- General 20

Permit Shield & Inapplicable Requirements **24**

General Conditions **25**

Facility Information

Permittee
Transcontinental Gas Pipe Line Company, LLC
2800 Post Oak Boulevard
Houston, Texas 77056

Responsible Official
Mr. Michael Callegari
Manager, Environmental Services

Facility
Transco – Compressor Station 180
7444 Everona Road
Unionville, Virginia 22567
(Orange County)

Contact Person
Mr. Ray Terrazas
Senior Environmental Specialist
(713)215-2653

County-Plant Identification Number: 51-137-0027

Facility Description: NAICS 486210 – Pipeline Transportation of Natural Gas

Transcontinental Gas Pipe Line Company, LLC (Transco) is an interstate natural gas transmission company. Transco's 1,900 mile pipeline system transports natural gas from production areas in the Gulf Coast region to customers along the eastern seaboard. Transco's compressor stations are used to compress and move the gas through the system. Compressor Station 180 utilizes fourteen (14) mainline natural gas-fired, internal combustion, reciprocating engines (M/L 1 through M/L 14) to drive the gas compressors which boost the pressure of natural gas in the transmission line and move the natural gas through the pipeline system. The facility has three (3) natural gas-fired reciprocating auxiliary electric power generators (AUX01 through AUX03) for use when electric power is unavailable to the facility from the electric power utility or when the electric utility requests the facility to provide its own station power. The facility also has one (1) natural-gas fired reciprocating engine driven emergency air compressor (A/C 1) which provides the facility with air compressor needs for use when electric power is unavailable to the facility from the electric power utility.

Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
M/L 1	01	Clark BA-8, 1800 hp natural gas, 2 stroke, lean burn (2SLB) spark ignited, internal combustion reciprocating compressor engine (Constructed before 1972)	16.6×10^6 Btu/hr (heat input)	None	None	None	None
M/L 2	02	Clark BA-8, 1800 hp natural gas, 2 stroke, lean burn (2SLB) spark ignited, internal combustion reciprocating compressor engine (Constructed before 1972)	16.6×10^6 Btu/hr (heat input)	None	None	None	None
M/L 3	03	Clark BA-8, 1800 hp natural gas, 2 stroke, lean burn (2SLB) spark ignited, internal combustion reciprocating compressor engine (Constructed before 1972)	16.6×10^6 Btu/hr (heat input)	None	None	None	None
M/L 4	04	Clark BA-8, 1800 hp natural gas, 2 stroke, lean burn (2SLB) spark ignited, internal combustion reciprocating compressor engine (Constructed before 1972)	16.6×10^6 Btu/hr (heat input)	None	None	None	None
M/L 5	05	Clark BA-8, 1800 hp natural gas, 2 stroke, lean burn (2SLB) spark ignited, internal combustion reciprocating compressor engine (Constructed before 1972)	16.6×10^6 Btu/hr (heat input)	None	None	None	None

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
M/L 6	06	Clark BA-8, 1800 hp natural gas, 2 stroke, lean burn (2SLB) spark ignited, internal combustion reciprocating compressor engine (Constructed before 1972)	16.6×10^6 Btu/hr (heat input)	None	None	None	None
M/L 7	07	Clark BA-8, 1800 hp natural , 2 stroke, lean burn (2SLB) spark ignited, internal combustion reciprocating compressor engine (Constructed before 1972)	16.6×10^6 Btu/hr (heat input)	None	None	None	None
M/L 8	08	Clark TLA-6, 2100 hp natural gas, 2 stroke, lean burn (2SLB) spark ignited, internal combustion reciprocating compressor engine (Constructed before 1972)	17.2×10^6 Btu/hr (heat input)	None – See Note 1	None	NOx	February 13, 2007 amended April 10, 2012
M/L 9	09	Clark TLA-6, 2100 hp natural gas, 2 stroke, lean burn (2SLB) spark ignited, internal combustion reciprocating compressor engine (Constructed before 1972)	17.2×10^6 Btu/hr (heat input)	High pressure fuel injection**	None	NOx CO	November 8, 2002
M/L 10	10	Clark TLA-6, 2100 hp natural gas, 2 stroke, lean burn (2SLB) spark ignited, internal combustion reciprocating compressor engine (Constructed before 1972)	17.2×10^6 Btu/hr (heat input)	None – See Note 1	None	NOx	February 13, 2007 amended April 10, 2012
M/L 11	11	Clark TCV-10, 3400 hp natural gas, 2 stroke, lean burn (2SLB) spark ignited, internal combustion reciprocating compressor engine (Constructed before 1972)	26.0×10^6 Btu/hr (heat input)	None	None	None	None

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
M/L 12	12	Clark TCV-10, 3400 hp natural gas, 2 stroke, lean burn (2SLB) spark ignited, internal combustion reciprocating compressor engine (Constructed before 1972)	27.8×10^6 Btu/hr (heat input)	None	None	None	None
M/L 13	13	Clark TCV-10, 3400 hp natural gas internal combustion reciprocating compressor engine (Constructed before 1972)	27.8×10^6 Btu/hr (heat input)	None	None	None	None
M/L 14	14	Clark TCV-16, 5500 hp natural gas internal combustion reciprocating compressor engine (Constructed before 1972)	43.0×10^6 Btu/hr (heat input)	None – See Note 1	None	NOx	February 13, 2007 amended April 10, 2012
AUX01	15	Ingersoll-Rand PVG-8, 370 hp natural gas internal combustion reciprocating auxiliary electric power generator (Constructed before 1972)	5.5×10^6 Btu/hr (heat input)	None	None	None	None
AUX02	16	Ingersoll-Rand PVG-8, 370 hp natural gas internal combustion reciprocating auxiliary electric power generator (Constructed before 1972)	5.5×10^6 Btu/hr (heat input)	None	None	None	None
AUX03	17	Ingersoll-Rand PVG-8, 370 hp natural gas internal combustion reciprocating auxiliary electric power generator (Constructed before 1972)	5.5×10^6 Btu/hr (heat input)	None	None	None	None
A/C 1	18	Caterpillar 3306, 145 hp natural gas internal combustion reciprocating emergency air compressor (Constructed before 1998)	1.0×10^6 Btu/hr (heat input)	None	None	None	None

*The Size/Rated Capacity is provided for informational purposes only, and is not an applicable requirement.
**Per 40 CFR 64.1, this device is not considered a control device and the requirements of 40 CFR Part 64 do not apply, however, it is listed above as a control device per the permit dated November 8, 2002 where it is identified as such.
Note 1: There is no pollution control device. However, there is the following Ozone Season NOx SIP Call Control Strategy: high pressure fuel injection (HPFi™) or operational limitations.

NOx SIP Call Phase II Fuel Burning Equipment Requirements – (Unit ID Nos. M/L 8, M/L 10, and M/L 14)

Definitions

1. **NOx SIP Call Phase II – (Unit ID Nos. M/L 8, M/L 10, and M/L 14) – Ozone Season Definitions** – The following definitions apply to mainline units M/L 8, M/L10 and M/L14 (as identified on pages 2-4 of this permit) during the Ozone Season:

   A. **Affected Engine** means any stationary IC engine that is a Large NOx SIP Call Engine, or other stationary IC engine that is subject to NOx emission reduction requirements under this permit.

   B. **Allowable NOx Emission Rate** means the allowable NOx emission rate in pounds per hour (lb/hr) during the ozone season for an affected engine or group of engines.

   C. **Allowable Operating Hours** means the allowable number of hours of operation per ozone season for an affected engine or group of engines.

   D. **Board** or **SAPCB** means the State Air Pollution Control Board, a citizen board of the Commonwealth of Virginia described in § 10.1-1301 of the Code.

   E. **Clean Air Act (CAA)** means 42 USC 7401 et seq.

   F. **Code** means the Code of Virginia.

   G. **DEQ** means the Department of Environmental Quality, an agency of the Commonwealth described in § 10.1-1183 of the Code.

   H. **EPA** or **the administrator** means the United States Environmental Protection Agency.

   I. **Large NOx SIP Call Engine** means a stationary IC engine identified and designated as "large" in the NOx SIP Call Engine Inventory as emitting more than one ton of NOx per average ozone season day in 1995.

   J. **New source review (NSR) program** means a preconstruction review and permit program (i) for new stationary sources or modifications (physical changes or changes in the method of operation) to existing ones, (ii) established to implement the requirements of §§ 110 (a)(2)(C), 112 (relating to permits for hazardous air pollutants), 165 (relating to permits in prevention of significant deterioration areas), and 173 (relating to permits in nonattainment areas) of the federal Clean Air Act and associated regulations, and (iii) promulgated as Article 6 (9 VAC 5-80-1100 et seq.), Article 7 (9 VAC 5-80-1400 et seq.), Article 8 (9 VAC 5-80-1605 et seq.) and Article 9 (9 VAC 5-80-2000 et seq.) of Part II of 9 VAC 5 Chapter 80 of the SAPCB Regulations.

   K. **NO_X** means nitrogen oxides as defined by 9 VAC 5-10-20 of the SAPCB Regulations.

   L. **Ozone season** means the period of time from May 1 to September 30 of any calendar year.

M. **Past NOx Emission Rate** means the emission rate of an affected engine in pounds per hour (lb/hr) as determined by performance testing consistent with the requirements of 40 CFR Part 60, Appendix A. Where such performance test data are not available, the Past NOx Emission Rate may be determined by the State on a case-by-case basis using, for example, appropriate emission factors or data from the NOx SIP Call Engine Inventory. For any affected unit subject to the NOx SIP Call, the Past NOx Emission Rate is the uncontrolled emission rate.

N. **State Air Pollution Control Board (SAPCB) Regulations** means 9 VAC 5 Chapters 10 through 80 and 9 VAC 5 Chapter 170.

O. **SIP or State Implementation Plan** means the portion or portions of the plan, or the most recent revision thereof, which has been approved under § 110 of the federal Clean Air Act, or promulgated under § 110(c) of the federal Clean Air Act, or promulgated or approved pursuant to regulations promulgated under § 301(d) of the federal Clean Air Act and which implements the relevant requirements of the federal Clean Air Act.

P. **Stationary internal combustion engine (IC engine)** means any internal combustion engine of the reciprocating type that is either attached to a foundation at a facility or is designed to be capable of being carried or moved from one location to another and remains at a single site at a building, structure, facility, or installation for more than 12 consecutive months. Any engine (or engines) that replace an engine at a site that is intended to perform the same or similar function as the engine replaced is included in calculating the consecutive time period.

Q. **VAC or 9 VAC** means Title 9 of the Virginia Administrative Code. This title comprises the environmental regulations for the Commonwealth of Virginia, including the State Air Pollution Control Board Regulations.

(9 VAC 5-80-110 and Condition II. of the February 13, 2007 (as amended April 10, 2012) Permit)

Limitations

2. **NOx SIP Call Phase II – (Unit ID Nos. M/L 8, M/L 10, and M/L 14) – Limitations** – The owner or operator of the mainline units M/L 8, M/L10 and M/L14 (as identified on pages 2-4 of this permit) shall not operate that affected engine during the ozone season unless the owner or operator complies with the operating and emission limitation requirements set forth in the permit dated February 13, 2007 (as amended April 10, 2012).
(9 VAC 5-80-110 and Condition III.A.1 of the February 13, 2007 (as amended April 10, 2012) Permit)

3. **NOx SIP Call Phase II – (Unit ID Nos. M/L 8, M/L 10, and M/L 14) – Limitations** – The facility shall be operated in accordance with the terms and conditions of the permit dated February 13, 2007 (as amended April 10, 2012). Any changes in the facilities subject to the permit dated February 13, 2007 (as amended April 10, 2012) or any existing facilities which alter the impact of the permitted facility on air quality may require a permit or permit revision.
(9 VAC 5-80-110 and Condition III.A.2 of the February 13, 2007 (as amended April 10, 2012) Permit)

4. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Limitations** – Affected engines subject to the emission reductions of the NOx SIP Call to be operated at this facility consist of the following:

Ref. No.	Manufacturer	Model Number	Horsepower
M/L 8	Clark	TLA-6	2100 hp
M/L 10	Clark	TLA-6	2100 hp
M/L 14	Clark	TCV-16	5500 hp

(9 VAC 5-80-110 and Condition III.B.1 of the February 13, 2007 (as amended April 10, 2012) Permit)

5. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Limitations** – The NOx SIP Call Phase II emissions reduction requirements for each affected engine (Ref. Nos. M/L 8, M/L 10, and M/L 14) shall be met through engine combustion modifications (high pressure fuel injection) or through operational limitations.
(9 VAC 5-80-110 and Condition III.B.2 of February 13, 2007 (as amended April 10, 2012) Permit)

6. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Limitations** – The affected compressor engines (Ref. Nos. M/L 8, M/L 10, and M/L 14) shall not operate more than a total of 3672 hours/season (each) during the ozone season.
(9 VAC 5-80-850 and Condition III.E.1. of February 13, 2007 (as amended April 10, 2012) Permit)

7. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Limitations** – NOx emissions from the operation of affected compressor engines (Ref. Nos. M/L 8, M/L 10, and M/L 14) shall not exceed the 'projected NOx emission rates' specified below during the ozone season:

Ref. No.	**Past Ozone Season NO_x Emission Rate (1995) (lb/hr)**	**Past Ozone Season NO_x Emission Rate (1995) (tons/ozone season)**	**Ozone Season Projected NO_x Emission Rate (lb/hr)**	**Ozone Season Projected NO_x Emission Rate (ton/ozone season)**
M/L 8	39.30	67.67	19.25	35.34
M/L 10	39.30	65.85	19.25	35.34
M/L 14	87.20	158.66	48.5	89.05
TOTAL		292.18		159.13

(9 VAC 5-80-850 and Condition III.E.2 of February 13, 2007 (as amended April 10, 2012) Permit)

8. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Limitations** – The approved fuel for the affected engines (Ref. Nos. M/L 8, M/L 10, and M/L 14) is natural gas. A change in the fuel may require a NSR program permit.
(9 VAC 5-80-110 and Condition III.E.3 of February 13, 2007 (as amended April 10, 2012) Permit)

9. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Limitations –** The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions from the affected compressor engines (Ref. Nos. M/L 8, M/L 10, and M/L 14) 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. 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 (5) years and shall be made available to DEQ personnel upon request.
   (9 VAC 5-80-110 and Condition III.I.4 of February 13, 2007 (as amended April 10, 2012) Permit)

Monitoring

10. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Monitoring** – A Parametric Monitoring System (PMS) shall be installed on each affected engine (Ref. Nos. M/L 8, M/L 10 and M/L 14) to measure and record the operating performance indicators as analytical monitoring for NOx. The PMS 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 each affected engine (Ref. Nos. M/L 8, M/L 10 and M/L 14) is operating.

    During each ozone season, the PMS shall collect and record at a minimum four or more data points equally spaced over each hour the following parameters at on an hourly average basis:

    - Fuel flow (FF_{SCFM}) in standard cubic feet per minute (SCFM).
    - Engine speed (RPM).
    - Air manifold temperature (AMT) in degrees F.
    - Critical trapped equivalence ratio (TER_C).
    - Engine trapped volume (V_{TRAP}) in cubic feet (ft^3).
    - Actual air manifold pressure (AMP_{ACT}) in inches of mercury (in Hg).
    - Critical air manifold pressure (AMP_C) in inches of mercury (in Hg).

    (9 VAC 5-80-850 and Condition III.C.1 of February 13, 2007 (as amended April 10, 2012) Permit)

11. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Monitoring** – If the one (1) hour average actual air manifold pressure (AMP_{ACT}) of each affected engine (Ref. M/L 8, M/L 10 and M/L 14) is less than the calculated air manifold pressure (AMP_C) for the affected engine (Ref. M/L 8, M/L 10 and M/L 14) for a one hour period, the permittee shall report a deviation from normal operation.
(9 VAC 5-80-850 and Condition III.C.2 of February 13, 2007 (as amended April 10, 2012) Permit)

12. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Monitoring** – If any three (3) hour average of AMP_{ACT} of each affected engine (Ref. M/L 8, M/L 10 and M/L 14) is less than the calculated AMP_C for that affected engine, the source shall take timely corrective action such that the affected engine resumes normal operation.
(9 VAC 5-80-850 and Condition III.C.3 of February 13, 2007 (as amended April 10, 2012) Permit)

13. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Monitoring** – If the three (3) hour average of AMP_{ACT} of any affected engine (Ref. M/L 8, M/L 10 and M/L 14) is less than the AMP_C for that engine for three (3) times during any ozone season, the permittee shall conduct the testing required in Condition 15 to re-establish the correlation between parameter levels that indicate proper operation of the affected engine (Ref. M/L 8, M/L 10 and M/L 14) and assure compliance with the NOx limit. Testing shall be completed and the results submitted to the Regional Air Compliance Manager of the Northern Regional Office (NRO) within ninety (90) days of the third occurrence.
(9 VAC 5-80-850 and Condition III.C.4 of February 13, 2007 (as amended April 10, 2012) Permit)

14. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Periodic Monitoring** – At least once per ozone season, the permittee shall test the affected engine (Ref. M/L 14), and at least one of the affected engines of the same model number (Ref. M/L 8 or M/L 10) with a portable analyzer to demonstrate the validity of the PMS and compliance to the ozone season NOx emission limit in Condition 7. Compliance testing for any one engine shall not be repeated until both engines of the same model number have been subjected to seasonal testing. The engines shall be tested in the "as found" condition. The engines may not be adjusted or tuned prior to any test for the purpose of lowering emissions, then returned to previous setting or operating conditions after the test is completed. The permittee shall submit the testing protocol for approval to the Regional Air Compliance Manager of the NRO at least thirty days prior to the scheduled testing. The portable analyzer shall be capable of measuring NOx emissions over the full range of expected engine operating conditions. The permittee shall calibrate the portable analyzer in accordance to the provisions of 40 CFR Part 60 Appendix A, Method 7E or alternative as approved by the Administrator and record the results in a logbook.
(9 VAC 5-80-850 and Condition III.D. of February 13, 2007 (as amended April 10, 2012) Permit)

Testing

15. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Relative Accuracy Test** – As may be required by Condition 13 of this permit or if any affected engine is changed in a manner that results in significant changes in the parameters established during the initial testing conducted on August 25, 28, and 30, 2006, the permittee shall perform a minimum of nine (9) emissions test runs to re-establish a correlation between the engine operating parameters in Condition 10 and ozone season NOx emissions in Condition 7 (to assure compliance with the NOx emission limit) from each affected engine (Ref. M/L 8, M/L 10 and M/L 14) using the following equation and constants A, B, and C referenced below:

$$AMP_C = \left[\frac{\left(AF_{ST} \times (0.0765 \times FSG) \times \frac{FF_{SCFM}}{RPM} \times (AMT + 460) \right)}{\left(2.699 \times TER_C \times V_{TRAP} \right)} - 14.73 \right] \times 2.036$$

Where:

AF_{ST} = stoichiometric air/fuel ratio
FSG = fuel gas specific gravity
FF_{SCFM} = unit fuel flow rate in standard cubic feet per minute (SCFM)
RPM = unit speed in revolutions per minute
AMT = air manifold temperature in °F
TER_C = critical trapped equivalence ratio
V_{TRAP} = engine trapped volume in cubic feet (ft^3)
AMP_C = critical air manifold pressure in inches of mercury (in Hg)

And:

$$TER_C = A \times \left(\frac{FF_{SCFM}}{RPM}\right)^2 + B \times \left(\frac{FF_{SCFM}}{RPM}\right) + C$$

Where:

A, B, and C = constants determined based upon initial performance testing of affected unit.

Testing shall be completed and the results submitted to the Regional Air Compliance Manager of the DEQ-NRO within ninety (90) days of the engine change or as may be required by Condition 13.

(9 VAC 5-80-110 and Condition III.F.2 and III.F.4 of February 13, 2007 (as amended April 10, 2012) Permit)

16. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Testing Protocol** – When testing is to be completed per Condition 15 of this permit, the testing shall be conducted and reported and data reduced as set forth in 9 VAC 5-50-30 and the test methods and procedures contained in each applicable section listed in 40 CFR Part 60, Appendix A or alternative as approved by the Administrator. The details of the tests are to be arranged with the Regional Air Compliance Manager of the DEQ-NRO. The permittee shall submit a test protocol at least thirty days prior to testing. One copy of the test results shall be submitted to the

Regional Air Compliance Manager of the DEQ-NRO within 45 days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-80-110 and Condition III.F.3 of February 13, 2007 (as amended April 10, 2012) Permit)

Recordkeeping

17. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Recordkeeping** – The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit for each affected engine. The content and format of such records shall be arranged with the Regional Air Compliance Manager of the DEQ-NRO. For each affected engine (Ref. M/L 8, M/L 10 and M/L 14), these records shall include, but are not limited to:

    a. The number of hours each affected engine (Ref. Nos. M/L 8, M/L 10, and M/L 14) is operated during the ozone season compared to the ozone season allowable operating hours of operation listed in Condition 6.

    b. The type and quantity of fuel used during the ozone season for each affected engine.

    c. Results of all emissions tests.

    d. Periodic monitoring records necessary to demonstrate compliance with Condition 10.

    e. Calculations demonstrating compliance with the Ozone Season Projected NO_x Emission Rate limits (in tons/ozone season) listed in Condition 7.

    f. A summary of any corrective maintenance taken.

    g. Records of the portable analyzer calibration.

    These records shall be available for inspection by the DEQ and shall be current for at least the most recent five (5) years. These records shall be made available to the State or EPA upon request.
    (9 VAC 5-80-110 and Condition III.H. of February 13, 2007 (as amended April 10, 2012) Permit)

Reporting

18. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Reporting** – The permittee shall submit an annual summary report to the Regional Air Compliance Manager of the DEQ-NRO documenting the total NOx emissions (in tons) from May 1 through September 30 of each year by October 31 from each affected engine. The report shall be submitted annually beginning in 2007. The report shall include the unit identification number for the affected engine, the manufacturer and model of each affected engine, and the name and address of the facility where the unit is located.
    (9 VAC 5-80-110 and Condition III.G.1 of February 13, 2007 (as amended April 10, 2012) Permit)

General

19. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Permit Approval** – The permit dated February 13, 2007 (as amended April 10, 2012), is approved by the U.S. Environmental Protection Agency into the Commonwealth of Virginia State Implementation Plan. The permit is enforceable by EPA and citizens under the federal Clean Air Act.
(9 VAC 5-80-110 and Condition III.I.10 of February 13, 2007 (as amended April 10, 2012) Permit)

20. **NOx SIP Call Phase II – (M/L 8, M/L 10, and M/L 14) – Permit Change or Repeal** – The Board may revise (modify, rewrite, change or amend) or repeal this permit with the consent of Transcontinental Gas Pipe Line Company, LLC, for good cause shown by Transcontinental Gas Pipe Line Company, LLC, or on its own motion provided approval of the revision or repeal is accomplished in accordance with Regulations of the Board and the Administrative Process Act (§ 2.2-4000 et seq.). Such revision or repeal shall not be effective until the revision or repeal is approved by the U. S. Environmental Protection Agency following the requirements of 40 CFR Part 51 (Requirements for Preparation, Adoption, and Submittal of Implementation Plans).
(9 VAC 5-80-110 and Condition III.I.11 of February 13, 2007 (as amended April 10, 2012) Permit)

Non-NOx SIP Call Phase II Fuel Burning Equipment Requirements – Compressor Engine Requirements – (Unit ID Nos. M/L 1 through M/L 14)

Limitations

21. **Fuel Burning Equipment Requirements – (M/L 9) – Limitations** – Nitrogen oxides (NOx) and carbon monoxide (CO) emissions from the compressor engine (Ref. No. M/L 9) shall be controlled by the installation of a high pressure fuel gas injection system that optimizes the ignition/combustion characteristics of the engine (Ref. No. M/L 9). The operation of the high pressure injection system shall be computer controlled to regulate the fuel flow to each cylinder of the compressor engine (Ref. No. M/L 9).

    The high pressure fuel gas injection system 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.
(9 VAC 5-50-260, 9 VAC 5-170-160 and Condition 3 and 4 of November 8, 2002 Permit)

22. **Fuel Burning Equipment Requirements – (M/L 1 through M/L 14) – Limitations** – The approved fuel for the compressor engines (M/L 1 through M/L 14) is pipeline quality natural gas. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110, Condition 5 of November 8, 2002 permit, and Condition III. E. 3 of February 13, 2007 (as amended April 10, 2012) permit)

23. **Fuel Burning Equipment Requirements – (M/L 1 through M/L 14) – Limitations** – Sulfur dioxide (SO_2) emissions from the operation of the compressor engines (Ref. Nos. M/L 1 through M/L 14) shall not exceed 2.64K pounds per hour, where K equals the actual heat input at total capacity expressed in Btu x 10^6 per hour.
(9 VAC 5-80-110 and 9 VAC 5-40-280 B)

24. **Fuel Burning Equipment Requirements – (M/L 1 through M/L 14) – Limitations** – The hydrogen sulfide (H_2S) emissions into the atmosphere from the compressor engines (Ref. Nos. M/L 1 through M/L 14) shall not exceed a concentration greater than 15 grains per 100 cubic feet of exhaust gas without burning or removing H_2S in excess of this concentration, provided that SO_2 emissions in the burning operation meet the requirements of 9 VAC 5-40-280 A.
(9 VAC 5-80-110 and 9 VAC 5-40-290)

25. **Fuel Burning Equipment Requirements – (M/L 9) – Limitations** – Emissions from the operation of the compressor engine (Ref. No. M/L 9) shall not exceed the limits specified below:

Pollutant	lbs/hr	tons/year
Nitrogen Oxides (as NO_2)	13.9	60.9
Carbon Monoxide	7.9	34.6
Volatile Organic Compounds	5.1	22.3
Particulate Matter	0.15	0.7

These emissions are dervided from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 29.
(9 VAC 5-50-260 and Condition 7 of November 8, 2002 Permit)

26. **Fuel Burning Equipment Requirements – (M/L 1 through M/L 8, and M/L 10 through M/L 14) – Limitations** – Visible emissions from the operation of each compressor engine (Ref. Nos. M/L 1 through M/L 8, and M/L 10 through M/L 14) shall not exceed twenty percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed sixty percent opacity.
(9 VAC 5-40-80 and 9 VAC 5-80-110)

27. **Fuel Burning Equipment Requirements – (M/L 9) – Limitations** – Visible emissions from the compressor engine (Ref. No. M/L 9) 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 EPA Method 9 (reference 40 CFR Part 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-50-80, 9 VAC 5-50-260, and Condition 8 of November 8, 2002 Permit)

28. **Fuel Burning Equipment Requirements – (M/L 1 through M/L 14) – Limitations** – Emissions from the compressor engines (M/L 1 through M/L 14) shall be controlled by proper operation and maintenance. Operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions at a minimum.
(9 VAC 5-80-110)

29. **Fuel Burning Equipment Requirements – (M/L 9) – Limitations** – The compressor engine (Ref. No. M/L 9) shall consume no more than 154,473,840 cubic feet per year of pipeline quality natural gas, calculated as the sum of each consecutive twelve month period.
(9 VAC 5-80-10 H and Condition 6 of November 8, 2002 Permit)

Monitoring

30. **Fuel Burning Equipment Requirements – (M/L 1 through M/L 14) – Monitoring** – Daily observation of the presence of visible emissions from each stack shall be made during normal business hours when the engine is operating. The presence of visible emissions shall require the permittee to:

    a. Take timely corrective action such that the unit resumes operation with no visible emissions, or,

    b. Conduct a visible emission evaluation (VEE), in accordance with EPA Method 9 (reference 40 CFR 60 Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the affected unit are 20 percent opacity or less. If any of the 15-second observations exceeds 20 percent opacity, the observation period shall continue for a total of sixty (60) minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions less than or equal to 20 percent opacity.

    The permittee shall maintain an observation log to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions, the results of all VEEs, any necessary corrective action, and the name of the observer. If the unit has not been operated, it shall be noted in the log.
    (9 VAC 5-80-110 E)

Maintenance/Operating Procedures

31. **Fuel Burning Equipment Requirements – (M/L 9) – Maintenance/Operating Procedures** – 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, monitoring devices, 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. 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 5-80-110 and Condition 18 of November 8, 2002 Permit)

Recordkeeping

32. **Fuel Burning Equipment Requirements – (M/L 1 through M/L 14) – Recordkeeping –** The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with the permit. The content and format of such records shall be arranged with DEQs Northern Regional Office. These records shall include but are not limited to:

    a. The annual throughput of natural gas (in million cubic feet) for each compressor engine (Ref. No. M/L 1 through M/L 14). The annual throughput shall be calculated as the sum of each consecutive twelve (12) month period.

    b. The annual hours of operation for each compressor engine (Ref. Nos. M/L 1 through M/L 14). The annual hours of operation shall be calculated as the sum of each twelve (12) month period.

    c. The equations, emission factors, origin of emission factors and all supporting documentation for criteria pollutant emissions (Ref. No. M/L 9), including the sulfur content of the natural gas.

    d. Records of all scheduled and unscheduled maintenance for each compressor engine (Ref. Nos. M/L 1 through M/L 14) and operator training.

    e. Operation and monitoring records for the high pressure fuel gas injection system for the compressor engine (Ref. No. M/L 09).

    f. Observation log required by Condition 30.

    These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

    (9 VAC 5-80-110 and Condition 12 of November 8, 2002 Permit)

Fuel Burning Equipment Requirements – Auxiliary Electric Power Generators and Emergency Air Compressor – (AUX01 through AUX03 and A/C 1)

Limitations

33. **Fuel Burning Equipment Requirements – (AUX01 through AUX03 and A/C 1) – Limitations –** The approved fuel for the auxiliary electric power generators and emergency air compressor (Ref. Nos. AUX01 through AUX03 and A/C 1) is pipeline quality natural gas. A change in the fuel may require a permit to modify and operate.
    (9 VAC 5-80-110)

34. **Fuel Burning Equipment Requirements – (AUX01 through AUX03 and A/C 1) – Limitations –** Sulfur Dioxide emissions from the operation of the auxiliary electric power generators and emergency air compressor (Ref. Nos. AUX01 through AUX03 and A/C 1)

shall not exceed 2.64K pounds per hour, where K equals the actual heat input at total capacity expressed in Btu x 10^6 per hour.
(9 VAC 5-80-110 and 9 VAC 5-40-280 B)

35. **Fuel Burning Equipment Requirements – (AUX01 through AUX03 and A/C 1) – Limitations** – The hydrogen sulfide (H_2S) emissions into the atmosphere from the auxiliary electric power generators and emergency air compressor (AUX01 through AUX03 and A/C 1) shall not exceed a concentration greater than 15 grains per 100 cubic feet of exhaust gas without burning or removing H_2S in excess of this concentration, provided that SO_2 emissions in the burning operation meet the requirements of 9 VAC 5-40-280 A.
(9 VAC 5-80-110 and 9 VAC 5-40-290)

36. **Fuel Burning Equipment Requirements – (AUX01 through AUX03 and A/C 1) – Limitations** – Visible emissions from the operation of each auxiliary electric power generator and emergency air compressor (Ref. Nos. AUX01 through AUX03 and A/C 1) shall not exceed twenty percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed sixty percent opacity.
(9 VAC 5-40-80 and 9 VAC 5-80-110)

37. **Fuel Burning Equipment Requirements – (AUX01 through AUX03 and A/C 1) – Limitations** – Emissions from the auxiliary electric power generators and emergency air compressor (Ref. Nos. AUX01 through AUX03 and A/C 1) shall be controlled by proper operation and maintenance. Operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions at a minimum.
(9 VAC 5-80-110)

Monitoring

38. **Fuel Burning Equipment Requirement – (AUX01 through AUX03 and A/C 1) – Monitoring** – Daily observation of the presence of visible emissions from each stack shall be made during normal business hours when the engine is operating. The presence of visible emissions shall require the permittee to:

    a. Take timely corrective action such that the unit resumes operation with no visible emissions, or,

    b. Conduct a visible emission evaluation (VEE), in accordance with EPA Method 9 (reference 40 CFR 60 Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the affected unit are 20 percent opacity or less. If any of the 15-second observations exceeds 20 percent opacity, the observation period shall continue for a total of sixty (60) minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions less than or equal to 20 percent opacity.

    The permittee shall maintain an observation log to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions, the results of all VEEs, any necessary corrective action, and the name of the observer. If the unit has not been operated, it shall be noted in the log.
    (9 VAC 5-80-110)

Recordkeeping

39. **Fuel Burning Equipment Requirements – (AUX01 through AUX03 and A/C 1) – Recordkeeping** – The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with the permit. The content and format of such records shall be arranged with the Regional Air Compliance Manager of the DEQ-NRO. These records shall include but are not limited to:

    a. The annual throughput of natural gas (in million cubic feet) for each auxiliary electric power generator and emergency air compressor (Ref. Nos. AUX01 through AUX03 and A/C 1). The annual throughput shall be calculated as the sum of each consecutive twelve (12) month period.

    b. The annual hours of operation for each auxiliary electric power generator and emergency air compressor (Ref. No. AUX01 through AUX03 and A/C 1). The annual hours of operation shall be calculated as the sum of each consecutive twelve (12) month period.

    c. Supporting documentation for sulfur content of the natural gas.

    d. Records of all scheduled and unscheduled maintenance for each auxiliary electric power generator and emergency air compressor (Ref. Nos. AUX01 through AUX03 and A/C 1) and operator training.

    e. Observation log required by Condition 38.

    These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

    (9 VAC 5-80-110)

National Emissions Standards for Hazardous Air Pollutants (NESHAP) MACT Subpart ZZZZ Requirements – (Ref. Nos. AUX01 through AUX03 and A/C 1)

Limitations

40. **NESHAP MACT Subpart ZZZZ Requirements – (AUX 01 through AUX 03 and A/C 1) – Limitations** – The permittee shall operate the auxiliary electric power generators and emergency air compressor (Ref. Nos. AUX01 through AUX03 and A/C 1) according to the requirements in paragraphs 40 CFR 63.6640(f)(1) through (4) of 40 CFR 63. In order for the auxiliary electric power generators and emergency air compressor to be considered emergency stationary RICE under 40 CFR 63, Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for a maximum of 50 hours per calendar year, as described below, is prohibited. If the permittee does not operate the engine according to the requirements below, the engine will not be considered an emergency engine under 40 CFR 63, Subpart ZZZZ and must meet all requirements for non-emergency engines.

a. There is no time limit on the use of emergency stationary RICE in emergency situations.

b. The permittee may operate the emergency stationary RICE for any combination of the purposes specified below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by item c of this condition counts as part of the 100 hours per calendar year allowed by this paragraph 40 CFR 63.6640 (f)(2).

   i. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent, balancing authority, and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

   ii. Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see § 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

   iii. Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

c. Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of 40 CFR 63.6640. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(9 VAC 5-80-110 and 40 CFR 63.6640(f))

41. **NESHAP MACT Subpart ZZZZ Requirements – (AUX 01 through AUX 03 and A/C 1) – Limitations** – During periods of startup the permittee shall minimize each auxiliary electric power generator and emergency air compressor's (Ref. Nos. AUX01 through AUX03 and A/C 1) time spent at idle and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.
(9 VAC 5-80-110 and 40 CFR 63.6640)

42. **NESHAP MACT Subpart ZZZZ Requirements – (AUX 01 through AUX 03 and A/C 1) – Limitations** – The permittee shall conduct the following activities on each auxiliary electric power generator and emergency air compressor (Ref. Nos. AUX01 through AUX03 and A/C 1):

a. Change oil and filter every 500 hours of operation or annually, whichever comes first.

b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.

c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

(9 VAC 5-80-110 and 40 CFR 63.6602)

43. **NESHAP MACT Subpart ZZZZ Requirements – (AUX 01 through AUX 03 and A/C 1) – Limitations –** Each auxiliary electric power generator and emergency air compressor (Ref. Nos. AUX01 through AUX03 and A/C 1) shall be equipped with a non-resettable hour meter. (9 VAC 5-80-110 and 40 CFR 63.6625(f))

44. **NESHAP MACT Subpart ZZZZ Requirements – (AUX 01 through 03 and A/C 1) – Limitations –** To demonstrate continuous compliance with the requirements in Condition 42 above, each auxiliary electric power generator and emergency air compressor (Ref. Nos. AUX01 through AUX03 and A/C 1) shall be operated as follows:

    a. Each auxiliary electric power generator and emergency air compressor (Ref. Nos. AUX01 through AUX03 and A/C 1) shall be operated and maintained in according to the manufacturer's emission-related operation and maintenance instructions; or

    b. The permittee shall develop and follow their own maintenance plan which must provide, to the extent practicable, for the maintenance and operation of each auxiliary electric power generator and emergency air compressor (Ref. Nos. AUX01 through AUX03 and A/C 1) in a manner consistent with good air pollution control practice for minimizing emissions.

    (9 VAC 5-80-110, 40 CFR 63.6625(e), and 40 CFR 63.6640(a))

Recordkeeping

45. **NESHAP MACT Subpart ZZZZ Requirements – (AUX 01 through AUX 03 and A/C 1) – Recordkeeping –** The permittee shall keep the applicable records as required in §63.6655, including those required in Subpart ZZZZ Table 6 that demonstrates continuous compliance with each applicable limitation of Subpart ZZZZ.
(9 VAC 5-80-110 and 40 CFR Subpart ZZZZ)

Notifications

46. **NESHAP MACT Subpart ZZZZ Requirements – (AUX 01 through AUX 03 and A/C 1) – Notifications** – The permittee shall meet the applicable notification requirements in §63.6645 and in 40 CFR 63, Subpart A.
(9 VAC 5-80-110 and 40 CFR 63.6595(c))

Reporting

47. **NESHAP MACT Subpart ZZZZ Requirements – (AUX 01 through AUX 03 and A/C 1) – Reporting** – The permittee shall submit the applicable compliance report in Subpart ZZZZ Table 7 per §63.6650(a). The report shall contain the information required by Table 7, §63.6650(c), (e), and (f), and submitted per the schedule required by §63.6650(b).

    Copies of the compliance reports shall be submitted to the Regional Air Compliance Manager of the DEQ's NRO.
    (9 VAC 5-80-110 and 40 CFR 63.6650)

General

48. **NESHAP MACT Subpart ZZZZ Requirements – (AUX 01 through AUX 03 and A/C 1) – General Provisions** – The permittee shall comply with the applicable requirements of General Provisions in §63.1 through 63.15 as identified in Subpart ZZZZ Table 8.
    (9 VAC 5-80-110 and 40 CFR Part 63.6665)

Facility-Wide Conditions

Testing

49. **Facility-Wide Conditions – Testing** – The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate location(s).
    (9 VAC 5-40-30, 9 VAC 5-50-30, 9 VAC 5-80-110, and Condition 9 of November 8, 2002 Permit)

50. **Facility-Wide Conditions – Testing** – Upon request by the DEQ, the permittee shall conduct performance tests in accordance with the procedures approved by the Department.
    (9 VAC 5-80-110, 9 VAC 5-40-30, 9 VAC 5-50-30, 9 VAC 5-80-110, and Condition 11 of November 8, 2002 Permit)

General

51. **Facility-Wide Conditions – General** – 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 5-80-110, Condition III.I.3 of February 13, 2007 (as amended April 10, 2012) Permit, and Condition 17 of November 8, 2002 Permit)

Insignificant Emission Units

52. **Insignificant Emission Units** – The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
IA1	2.6 MMBtu/hr Dutton 3830 natural gas-fired boiler	5-80-720 C.2	NA	< 10 MMBtu/hr natural gas-fired
IA2	5.4 MMBtu/hr Cyclotherm LN-45 natural gas-fired boiler	5-80-720 C.2	NA	< 10 MMBtu/hr natural gas-fired
IA6	13,500-gallon ethylene glycol/water surge tank	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA
IA7	2,100-gallon ethylene glycol/water surge tank	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA
IA8	1,130-gallon ethylene glycol/water transfer tank	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA
IA9	575-gallon ethylene glycol/water transfer tank	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA
IA10	3,175-gallon ethylene glycol/water transfer tank	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA
IA11	6,400-gallon ethylene glycol/water storage tank	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA
IA12	46-gallon hydraulic oil surge tank (Ref. M/L 11)	5-80-720 C.3	NA	< 1,000 gallons
IA13	3,171-gallon used oil storage tank	5-80-720 B.2	VOC < 5 tons/yr	NA
IA14	1,500-gallon methanol storage tank	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA

IA15	479-gallon lube oil fill and drain tank	5-80-720 C.3	NA	< 1,000 gallons
IA16	299-gallon lube oil fill and drain tank	5-80-720 C.3	NA	< 1,000 gallons
IA17	2,300-gallon lube oil fill and drain tank	5-80-720 B.2	VOC < 5 tons/yr	NA
IA18	3,300-gallon ethylene glycol/water transfer tank	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA
IA19	270-gallon diesel fuel storage tank	5-80-720 B.2	VOC < 5 tons/yr	NA
IA20	11,744-gallon lube oil storage tank	5-80-720 B.2	VOC < 5 tons/yr	NA
IA21	446-gallon lube oil day tank	5-80-720 C.3	NA	< 1,000 gallons
IA22	514-gallon ethylene glycol/water surge tank	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA
IA23	294-gallon ethylene glycol/water surge tank	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA
IA24	514- gallon ethylene glycol/water surge tank (Ref. M/L 11)	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA
IA25	294- gallon ethylene glycol/water surge tank (Ref. M/L 11)	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA
IA26	514- gallon ethylene glycol/water surge tank (Ref. M/L 12)	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA
IA27	294- gallon ethylene glycol/water surge tank (Ref. M/L 12)	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA

IA28	514- gallon ethylene glycol/water surge tank (Ref. M/L 13)	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA
IA29	294- gallon ethylene glycol/water surge tank (Ref. M/L 13)	5-80-720 B.2 and 5-80-720 B.5	VOC < 5 tons/yr And HAPs ≤ 1,000 lbs/yr	NA
IA30	46-gallon hydraulic oil surge tank (Ref. M/L 12)	5-80-720 C.3	NA	< 1,000 gallons
IA31	40-gallon hydraulic oil surge tank (Ref. M/L 13)	5-80-720 C.3	NA	< 1,000 gallons
IA32	46-gallon hydraulic oil surge tank (Ref. M/L 14)	5-80-720 C.3	NA	< 1,000 gallons
IA33	8,820-gallon wastewater tank	5-80-720 B.2	VOC < 5 tons/yr	NA
IA34	3,171-gallon natural gas condensate storage tank	5-80-720 B.2	VOC < 5 tons/yr	NA
IA37	Piping – mechanical joints: fugitive emissions	5-80-720 B.2	VOC < 5 tons/yr	NA
IA38	Wastewater Evaporator	5-80-720 B.2	VOC < 5 tons/yr	NA
IA39	Wastewater Sump	5-80-720 B.2	VOC < 5 tons/yr	NA
IA40	Wastewater Sump	5-80-720 B.2	VOC < 5 tons/yr	NA
IA41	Wastewater Sump	5-80-720 B.2	VOC < 5 tons/yr	NA
IA42	Parts Washer	5-80-720 B.2	VOC < 5 tons/yr	NA
IA43	70-gallon Oil Leak Recovery Tank	5-80-720 C.3	NA	< 1,000 gallons
IA44	165-gallon Used Oil Collection Tank	5-80-720 C.3	NA	< 1,000 gallons

IA45	74-gallon Oil Leak Recovery Tank	5-80-720 C.3	NA	< 1,000 gallons
IA46	450-gallon Wastewater Evaporator Waste Tank	5-80-720 B.2	VOC < 5 tons/yr	NA

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for those emission units in accordance with 9 VAC 5-80-110.

Permit Shield & Inapplicable Requirements

53. **Permit Shield & Inapplicable Requirements** – Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR 60 Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels	Compressor Station No. 180's volatile organic liquid storage vessels have a capacity of less than 75 m^3 and are not subject to this subpart's requirements per 40 CFR 60.110b(a.).
40 CFR 60 Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	Each Unit (Ref. No. M/L 1 through M/L 14 and AUX01 through AUX03) was manufactured prior to and has not been reconstructed after June 12, 2006, and is not subject to this subpart's requirements per 40 CFR 60.4230(a)(5).
40 CFR 60 Subpart OOOO	Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution	Compressor Station 180 does not have any storage vessels that commenced construction, modification, or reconstruction after August 23, 2011.
40 CFR 63 Subpart HH	National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities	Compressor Station 180 is not located at a natural gas production site, does not include glycol dehydration, or include other affected units per 40 CFR 63.760(d).

40 CFR 63 Subpart HHH	National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities	Compressor Station 180 does not include glycol dehydration facilities and is not subject to this subpart's requirements per 40 CFR 63.1270(c).
40 CFR 63 Subpart EEEE	National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)	Compressor Station No. 180 meets the definition of "facility" per 40 CFR 63.1271 (MACT Subpart HHH) and is not subject to 40 CFR 63 Subpart EEEE per 40 CFR 63.2334(c)(2).
40 CFR 63 Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	Each spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of more than 500 bhp at Compressor Station 180 (Ref. Nos. M/L 1 through M/L 14 are "existing" and therefore not subject to 40 CFR 63 Subpart ZZZZ per 40 CFR 63.6590(b)(3).
40 CFR 64	Compliance Assurance Monitoring	Per 40 CFR 64.2(a), the emissions units at Compressor Station No. 180 do not have add-on air pollution control devices as defined in 40 CFR 64.1.
40 CFR 68	Chemical Accident Prevention Provisions	Compressor Station 180 is regulated under 40 CFR192, not a stationary source per 40 CFR 68.3.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicability requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law, or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.

General Conditions

54. **General Conditions – Federal Enforceability** – All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110N)

55. **General Conditions – Permit Expiration** – This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner

submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)

56. **General Conditions – Permit Expiration** – The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110D, and 9 VAC 5-80-170 B)

57. **General Conditions – Permit Expiration** – If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110D, and 9 VAC 5-80-170 B)

58. **General Conditions – Permit Expiration** – No source shall operate after the time that is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II or 9 VAC 5 Chapter 80.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110D, and 9 VAC 5-80-170 B)

59. **General Conditions – Permit Expiration** – If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board Fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110D, and 9 VAC 5-80-170 B)

60. **General Conditions – Permit Expiration** – The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant to section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the board any additional information identified as being needed to process the application.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)

61. **General Conditions – Recordkeeping and Reporting** – All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

    a. The date, place as defined in the permit, and time of sampling or measurement;

    b. The date(s) analyses were performed;

    c. The company or entity that performed the analysis;

    d. The analytical techniques or methods used;

e. The results of such analyses;

f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110F)

62. **General Conditions – Recordkeeping and Reporting** – Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. (9 VAC 5-80-110 F)

63. **General Conditions – Recordkeeping and Reporting** – The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1 and September 1** of each calendar year. The report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.

b. All deviations from permit requirements. For the purpose of this permit, deviations include , but are not limited to:

1) Exceedance of emissions limitations or operational restrictions;

2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates as exceedance or emissions limitation or operational restriction; or

3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9 VAC 5-80-110 F)

64. **General Conditions – Annual Compliance Certification** – Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to the EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a) (3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

a. The time period included in the certification. The time period to be addressed is January 1 to December 31.

b. The identification of each term or condition of the permit that is the basis for the certification.

c. The compliance status.

d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.

e. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.

f. Such other facts, as the permit may require, to determine the compliance status of the source.

g. One copy of the annual compliance certification shall be submitted to EPA in an electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov

(9 VAC 5-80-110 K.5)

65. **General Conditions – Permit Deviation Reporting** – The permittee shall notify the Director, Northern Regional Office within four daytime business hours after discovery of any deviations from the permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within fourteen (14) days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 63 of this permit.
(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

66. **General Conditions – Failure/Malfunction Reporting** – 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 Director, Northern Regional Office by facsimile transmission, telegraph, or telephone of such failure or malfunction and shall within fourteen (14) days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Northern Regional Office.
(9 VAC 5-20-180 C)

67. **General Conditions – Severability** – The terms of this permit are severable. If any condition, requirement, or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)

68. **General Conditions – Duty to Comply** – The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law, or both and is ground for enforcement action; for permit termination, revocation, and reissuance, or modification; or, for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)

69. **General Conditions – Need to Halt or Reduce Activity not a Defense** – It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
(9 VAC 5-80-110 G.3)

70. **General Conditions – Permit Modification** – A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAV 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9 VAC 5-80-190 and 9 VAC 5-80-260)

71. **General Conditions – Property Rights** – The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)

72. **General Conditions – Duty to Submit Information** – The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking, or reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)

73. **General Conditions – Duty to Submit Information** – Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)

74. **General Conditions – Duty to Pay Permit Fees** – The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350 in addition to an annual permit maintenance fee consistent with the requirements of 9 VAC 5-80-2310 through 9 VAC 5-80-2350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April

15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department. The amount of the annual permit maintenance fee shall be the largest applicable base permit maintenance fee amount from Table 8-11A in 9 VAC 5-80-2340, adjusted annually by the change in the Consumer Price Index.
(9 VAC 5-80-110 H, 9 VAC 5-80-340 C and 9 VAC 5-80-2340 B)

75. **General Conditions – Fugitive Dust Emission Standards** – During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

    a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;

    b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

    c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;

    d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and

    e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

    (9 VAC 5-40-90 and 9 VAC 5-50-90)

76. **General Conditions – Startup, Shutdown, and Malfunction** - 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 Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
(9 VAC 5-40-20 E and 9 VAC 5-50-20 E)

77. **General Conditions – Alternative Operating Scenarios** – Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenarios in which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each operating scenario. The terms and conditions of each

such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.
(9 VAC 5-80-110 J)

78. **General Conditions – Inspection and Entry Requirements** – The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

    a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.

    b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.

    c. Inspect at reasonable times any facility, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.

    d. Sample or monitor at reasonable times' substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

    (9 VAC 5-80-110 K.2)

79. **General Conditions – Reopening For Cause** – The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 9 VAC 5-80-80 F. The conditions for reopening a permit are as follows:

    a. A permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
    b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

    c. The permit shall be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

    (9 VAC 5-80-110 L)

80. **General Conditions – Permit Availability** – Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.
(9 VAC 5-80-150 E)

81. **General Conditions – Transfer of Permits** – No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)

82. **General Conditions – Transfer of Permits** – In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within thirty (30) days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

83. **General Conditions – Transfer of Permits** – In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within thirty (30) days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

84. **General Conditions – Malfunction as an Affirmative Defense** – A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of Condition 85 are met.
(9 VAC 5-80-250)

85. **General Conditions – Malfunction as an Affirmative Defense** – The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:

    a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.

    b. The permitted facility was at the time being properly operated.

    c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceed the emission standards, or other requirements in the permit.

    d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective action taken. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.

    (9 VAC 5-80-250)

86. **General Conditions – Malfunction as an Affirmative Defense** – In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
(9 VAC 5-80-250)

87. **General Conditions – Malfunction as an Affirmative Defense –** The provisions of this section are in addition to any malfunction, emergency, or upset provision contained in any applicable requirement.
(9 VAC 5-80-250)

88. **General Condition – Permit Revocation or Termination for Cause –** A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects, or refuses to comply with the terms or conditions of the permit, or any applicable requirements, or the provisions of 9 VAC 5 Chapter 80, Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.
(9 VAC 5-80-190 C and 9 VAC 5-80-260)

89. **General Conditions – Duty to Supplement or Correct Application –** Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of the draft permit.
(9 VAC 5-80-80-E)

90. **General Conditions – Stratospheric Ozone Protection –** If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subpart A to F.
(40 CFR Part 82, Subpart A-F)

91. **General Conditions – Asbestos Requirements –** The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)

92. **General Conditions – Accidental Release Prevention –** If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)

93. **General Conditions – Changes to Permits for Emissions Trading –** No permit revision shall be required under any federally approved economic incentives, marketable permits, emission trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)

94. **General Conditions – Emissions Trading –** Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to

the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

a. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.

b. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.

c. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)