



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY Blue Ridge Regional Office

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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 Control 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 contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §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 for 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: Transco Compressor Station 170
Facility Location: 2444 Pumping Station Road
Appomattox County, Virginia 24522
Registration Number: 30863
Permit Number: BRRO-30863

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Pages 4 through 36)

June 4, 2014
Effective Date

June 3, 2019
Expiration Date

Robert J. Weld
Regional Director

Signature Date

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Facility Information

Permittee
Transcontinental Gas Pipe Line Company, LLC
P. O. Box 1396
Houston, Texas 77251-1396

Responsible Official
Michael Callegari
Manager, Environmental Services
The Williams Companies, Inc.

Facility
Transcontinental Gas Pipe Line Company, LLC - Compressor Station 170
2444 Pumping Station Road
Appomattox County, VA 24522-9998

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

County-Plant Identification Number: 51-011-0011

Facility Description: NAICS 486210 - 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 along the system. Station No. 170 is one of twelve facilities which is part of the Charlottesville Division. Operations at Station No. 170 began in the early 1950s. This facility does not produce any other goods or services beyond natural gas compression, and does not include glycol dehydration or natural gas storage. The process consists of natural gas entering the facility at a pressure in the range of 500 to 650 pounds per square inch gauge (psig). Onsite compressors then boost the pressure of the gas to approximately 800 psig for transmission along the pipeline downstream of the facility. Each gas compressor is driven by a natural gas-fired spark ignited, internal combustion reciprocating engine (SRICE). All yard piping, including the pigging and filtering equipment, and most of the other equipment in natural gas service (e.g., compressors, engine fuel gas systems, gas meters) must be depressurized during maintenance. The upstream piping located on site includes scrubbers and pig receivers. The on-site downstream piping includes pig launchers. The natural gas lines are depressurized through a silencer. Venting activities are intermittent and are only performed during scheduled maintenance-related activities and upset/emergency situations.

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	Permit Document Date
M/L 1	01	2-cycle, spark-ignited, lean burn, (2SLB) IC reciprocating engine, Cooper-Bessemer GMW-10 (before 1972)	2,500-HP (18.0 MM Btu/hr)	None – See Note 1	None	NOx	1/24/2007
M/L 2	02	2SLB IC reciprocating engine, Cooper-Bessemer GMW-10 (before 1972)	2,500-HP (18.0 MM Btu/hr)	None – See Note 1	None	NOx	1/24/2007
M/L 3	03	2SLB IC reciprocating engine, Cooper-Bessemer GMW-10 (before 1972)	2,500-HP (18.0 MM Btu/hr)	None – See Note 1	None	NOx	1/24/2007
M/L 4	04	2SLB IC reciprocating engine, Cooper-Bessemer GMW-10 (before 1972)	2,500-HP (18.0 MM Btu/hr)	None – See Note 1	None	NOx	1/24/2007
M/L 5	05	2SLB IC reciprocating engine, Cooper-Bessemer GMW-10 (before 1972)	2,500-HP (18.0 MM Btu/hr)	None – See Note 1	None	NOx	1/24/2007
M/L 6	06	2SLB IC reciprocating engine, Cooper-Bessemer GMWA-10 (before 1972)	2,625-HP (18.4 MM Btu/hr)	None – See Note 1	None	NOx	1/24/2007
M/L 7	07	2SLB IC reciprocating engine, Cooper-Bessemer GMWA-10 (before 1972)	2,625-HP (18.4 MM Btu/hr)	None – See Note 1	None	NOx	1/24/2007
M/L 8	08	2SLB IC reciprocating engine, Cooper-Bessemer GMWC-10 (before 1972)	3,400-HP (23.5 MM Btu/hr)	None – See Note 1	None	NOx	1/24/2007
M/L 9	09	2SLB IC reciprocating engine, Cooper-Bessemer 10V-250 (before 1972)	3,400-HP (23.3 MM Btu/hr)	None – See Note 1	None	NOx	1/24/2007
	10	2SLB IC reciprocating engine,	3,400-HP	None – See Note 1	None	NOx	1/24/2007

M/L 10		Cooper-Bessemer 10V-250 (before 1972)	(23.3 MM Btu/hr)				
M/L 11	11	2SLB IC reciprocating engine, Cooper-Bessemer 16V-250 (before 1972)	5,500-HP (37.7 MM Btu/hr)	None – See Note 1	None	NOx	1/24/2007
AUX 4	16	4- cycle, spark ignited, rich burn (4SRB) IC reciprocating engine, Waukesha VGF P48GSI, auxiliary electric power generator (to be constructed)	1065-HP (7.9 MM Btu/hr)	non-selective catalytic reduction	AP1	NOx CO VOC	12/19/2012
AUX 5	17	4- cycle, spark ignited, rich burn (4SRB) IC reciprocating engine, Waukesha VGF P48GSI, auxiliary electric power generator (to be constructed)	1065-HP (7.9 MM Btu/hr)	non-selective catalytic reduction	AP2	NOx CO VOC	12/19/2012
FUGS	fugitive	Facility-wide piping components (valves, flanges, etc), engine crankcase vents, compressor leaks, and pipeline blow downs.	N/A	None	None	None	None

*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

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™), internal engine changes, new turbochargers and intercoolers, and instrumentation, and control systems.

NO_x SIP Call Phase II - (M/L 1-11)

Definition

1. **NO_x SIP Call Phase II - (M/L 1-11) - Ozone Season Definition** - These definitions apply to the affected facilities identified in Condition No. 4 during the Ozone Season, as defined below
 - a. **Affected Engine** means any stationary IC engine that is a Large NO_x SIP Call Engine, or other stationary IC engine that is subject to NO_x emission reduction requirements under this permit.
 - b. **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.
 - c. **Clean Air Act (CAA)** means 42 USC 7401 et seq.
 - d. **Code** means the Code of Virginia.
 - e. **DEQ** means the Department of Environmental Quality, an agency of the Commonwealth described in § 10.1-1183 of the Code.
 - f. **EPA or the administrator** means the United States Environmental Protection Agency.
 - g. **Large NO_x SIP Call Engine** means a stationary IC engine identified and designated as “large” in the NO_x SIP Call Engine Inventory as emitting more than one ton of NO_x per average ozone season day in 1995.
 - h. **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.
 - i. **NO_x** means nitrogen oxides as defined by 9 VAC 5-10-20 of the SAPCB Regulations.
 - j. **Ozone season** means the period of time from May 1 to September 30 of any calendar year.
 - k. **Past NO_x 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.

- l. **Allowable Operating Hours** means the allowable number of hours of operation per ozone season for an affected engine or group of engines.
- m. **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.
- 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 replaces 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 1/24/07 Permit Document)

Limitations

2. **NOx SIP Call Phase II - (M/L 1-11) - Limitations** - Beginning on May 1, 2007, the owner or operator of any affected engine identified in Condition 4 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 January 24, 2007.

(9 VAC 5-80-110 and Condition III.A.1 of 1/24/07 Permit Document)

3. **NOx SIP Call Phase II - (M/L 1-11) - Limitations** - The facility shall be operated in accordance with the terms and conditions of the permit dated January 24, 2007. Any changes in the facilities subject to this permit or any existing facilities which alter the impact of the permitted facility on air quality may require a permit or a permit revision. (9 VAC 5-80-110 and Condition III.A.2 of 1/24/07 Permit Document)

4. **NOx SIP Call Phase II - (M/L 1-11) - Limitations** - Affected engines subject to emission reductions of the NOx SIP Call to be operated at this facility consist of the following:

Ref. ID	Manufacturer	Model Number	Horsepower (HP)
M/L 1	Cooper	GMW-10	2,500
M/L 2	Cooper	GMW-10	2,500
M/L 3	Cooper	GMW-10	2,500
M/L 4	Cooper	GMW-10	2,500
M/L 5	Cooper	GMW-10	2,500
M/L 6	Cooper	GMWA-10	2,625
M/L 7	Cooper	GMWA-10	2,625
M/L 8	Cooper	GMWC-10	3,400
M/L 9	Cooper	10V-250	3,400
M/L 10	Cooper	10V-250	3,400
M/L 11	Cooper	16V-250	5,500

(9 VAC 5-80-110 and Condition III.B.1 of 1/24/07 Permit Document)

5. **NOx SIP Call Phase II - (M/L 1-11) - Limitations** - The NOx SIP Call emissions reduction requirements for the affected engines (Ref. M/L 1-11) 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 1/24/07 Permit Document)

6. **NOx SIP Call Phase II - (M/L 1-11) – Limitations** - Beginning on May 1, 2007, NOx emissions from the operation of each affected engine shall not exceed the projected emission rates specified below during the ozone season:

Emission Unit ID	Ozone Season Projected NO _x Emission Rate (lb/hr-ozone season)	Ozone Season Projected NO _x Emission Rate (ton/ozone season)
M/L 01	19.29	35.42
M/L 02	19.29	35.42
M/L 03	19.29	35.42
M/L 04	19.29	35.42
M/L 05	19.29	35.42
M/L 06	20.25	37.18
M/L 07	20.25	37.18

M/L 08	26.23	48.16
M/L 09	26.23	48.16
M/L 10	26.23	48.16
M/L 11	42.44	77.92
Total		473.86

(9 VAC 5-80-110 and Condition III.E.1 of 1/24/07 Permit Document)

7. **NOx SIP Call Phase II - (M/L 1-11) - Limitations** - The approved fuel for SRICE engines (Ref. M/L 1-11) is natural gas. A change in the fuel may require a NSR program permit. (9 VAC 5-80-110 and Condition III.E.2 of 1/24/07 Permit Document)
8. **NOx SIP Call Phase II - (M/L 1-11) - Limitations** - The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to each SRICE engine (Ref. Nos. M/L 1-11 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). These procedures shall be based on the manufacturer's recommendations, at minimum.
 - d. Train operators in the proper operation and familiarize the operators with the written operating procedures.

(9 VAC 5-80-110, 9 VAC 5-50-20 E and Condition III.I.4 of 1/24/07 Permit Document)

Monitoring

9. **NOx SIP Call Phase II - (M/L 1-11) - Monitoring** - A Parametric Monitoring Systems (PMS) shall be installed on each affected engine (Ref. M/L 1-11) to measure and record the operating performance indicators as analytical monitoring for NOx emissions. 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. M/L 1-11) is operating. During each ozone season, beginning in 2007, the PMS shall collect and record at a minimum four or more data points equally spaced over each hour the following parameters at the following frequencies:
 - Fuel flow (FF_{SCFM}) in standard cubic feet per minute (SCFM) on an hourly average basis
 - Engine speed (RPM) on an hourly average basis
 - Air manifold temperature (AMT) in degrees F on an hourly average basis

- Critical trapped equivalence ratio (TER_C) on an hourly average basis
- Engine trapped volume (V_{TRAP}) in cubic feet (ft^3) on an hourly average basis
- Actual air manifold pressure (AMP_{ACT}) in inches of mercury (in Hg) on an hourly average basis
- Critical air manifold pressure (AMP_C) in inches of mercury (in Hg) on an hourly average basis

(9 VAC 5-80-110 and Condition III.C.1 of 1/24/07 Permit Document)

10. **NOx SIP Call Phase II - (M/L 1-11) - Monitoring** - If the one (1) hour average actual air manifold pressure (AMP_{ACT}) of each affected engine (Ref. M/L 1-11) is less than the calculated critical air manifold pressure (AMP_C) for that affected engine (Ref. M/L 1-11) for a one-hour period, the permittee shall report a deviation from normal operation.
(9 VAC 5-80-110 and Condition III.C.2 of 1/24/07 Permit Document)
11. **NOx SIP Call Phase II - (M/L 1-11) - Monitoring** - If any three (3) hour average of AMP_{ACT} of each affected engine (Ref. M/L 1-11) 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 5-80-110 and Condition III.C.3 of 1/24/07 Permit Document)
12. **NOx SIP Call Phase II - (M/L 1-11) - Monitoring** - If the three (3) hour average of AMP_{ACT} of any affected engine (Ref. M/L 1-11) is less than the calculated AMP_C for that engine for three (3) times during any ozone season, the permittee shall repeat the testing required in Conditions 15 through 18 to re-establish the correlation between parameter levels that indicate proper operation of the affected engine (Ref. M/L 1-11) and assure compliance with the NOx limit. Testing shall be completed and the results submitted to the Blue Ridge Regional Office within ninety (90) days of the third occurrence.
(9 VAC 5-80-110 and Condition III.C.4 of 1/24/07 Permit Document)

Periodic Monitoring

13. **NOx SIP Call Phase II - (M/L 1-11) - Periodic Monitoring** - At least once per ozone season, beginning with the 2008 Ozone Season, the permittee shall test one affected engine (Ref. M/L 1-11) of each group with a portable analyzer to demonstrate the validity of the PMS and compliance to the ozone season NOx emission limit in Condition 6. Seasonal compliance testing shall be conducted as follows:
 - a. The engine shall be tested in the “as found” condition. The engine 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.
 - b. The permittee shall submit the testing protocol for approval to the Blue Ridge Regional Office at least 30 days prior to the scheduled testing.

- c. The portable analyzer shall be capable of measuring NO_x emissions over the full range of expected engine operating conditions.
- d. 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.
- e. Compliance testing for any one engine shall not be repeated until all engines within the respective engine ID group have been subjected to seasonal testing.
- f. The five engine ID groups are as follows:

Group No.	Ref. ID	Model	Horsepower (HP)
01	M/L 1-5	GMW-10	2,500
02	M/L 6-7	GMWA-10	2,625
03	M/L 8	GMWC-10	3,400
04	M/L 9-10	10V-250	3,400
05	M/L 11	16V-250	5,500

(9 VAC 5-80-110 and Condition III.D of 1/24/07 Permit Document)

Recordkeeping

14. **NO_x SIP Call Phase II - (M/L 1-11) - 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 Blue Ridge Regional Office. For each affected engine (Ref. M/L 1-11), these records shall include, but are not limited to:

- a. The number of hours each affected engine (Ref. M/L 1-11) is operated during the ozone season.
- b. The type and quantity of fuel used during the ozone season for each affected engine (Ref. 1-11).
- c. Results of all emissions tests.
- d. Periodic monitoring records necessary to demonstrate compliance with emission limits in Condition 6.
- e. Calculations demonstrating compliance with the NO_x emissions limits listed in Condition 6.
- f. A summary of any corrective maintenance taken.
- g. Records of the portable analyzer calibration.

- h. The results of the most recent Relative Accuracy tests conducted per Condition 16.
- i. Records to demonstrate that each engine has not been changed in a manner that results in significant changes in the parameters established in Condition 15; and therefore, testing of the engines as stated in Condition 17 is not required.
- j. Records of the training required in Condition 8.d, including the names of trainees, the date of training and the nature of the training.
 (Condition III.I.4.d of 1/24/07 Permit Document)

These records shall be available on site for inspection by the DEQ and shall be current for the most recent (5) years.
 (9 VAC 5-80-110 and Condition III.H of 1/24/07 Permit Document)

Testing

- 15. **NOx SIP Call Phase II - (M/L 1-11) - Initial Testing** - Prior to May 1, 2007 the permittee shall conduct an initial emissions test consistent with 40 CFR Part 60, Appendix A for NOx from each affected engine (Ref. M/L 1-11) using reference method 7(E) to determine compliance with the ozone season allowable NOx emission limits contained in Condition 6. The permittee shall submit the testing protocol for approval to the Blue Ridge Regional Office at least 30 days prior to the scheduled testing. One copy of the test results shall be submitted to the Blue Ridge Regional Office 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.1 of 1/24/07 Permit Document)
- 16. **NOx SIP Call Phase II - (M/L 1-11) - Relative Accuracy Test** - The permittee shall perform a minimum of nine (9) emissions tests runs to establish a correlation between the engine operating parameters in Condition 9 and NOx emissions in Condition 6 from each affected engine (Ref. M/L 1-11) using the following equation and constants A, B, and C referenced below.

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

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 (ft³)
- 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 performance testing of affected unit.

(9 VAC 5-80-110 and Condition III.F.2 of 1/24/07 Permit Document)

17. **NOx SIP Call Phase II - (M/L 1-11) - Future Testing** - If any affected engine is changed in a manner that results in significant changes in the parameters established in Condition 16 the permittee shall repeat the testing required in Condition 16 to re-establish the correlation between parameter levels that indicate proper operation of the affected engine (Ref. M/L 1-11) and assure compliance with the NOx limit. Testing shall be completed and the results submitted to the Blue Ridge Regional Office within ninety (90) days of the engine change. (9 VAC 5-80-110 and Condition III.F.4 of 1/24/07 Permit Document)
18. **NOx SIP Call Phase II - (M/L 1-11) - Testing Protocol** - Tests 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 Blue Ridge Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. One copy of the test results shall be submitted to the Blue Ridge Regional Office 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 1/24/07 Permit Document)

Reporting

19. **NOx SIP Call Phase II - (M/L 1-11) - Reporting** - The permittee shall submit an annual summary report to the Blue Ridge Regional Office 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 of 1/24/07 Permit Document)

General

20. **NOx SIP Call Phase II - (M/L 1-11) - Permit Approval** - The permit dated January 24, 2007 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 1/24/07 Permit Document)

21. **NOx SIP Call Phase II - (M/L 1-11) - Permit Change or Repeal** - The Board may revise (modify, rewrite, change or amend) or repeal the permit dated January 24, 2007 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 1/24/07 Permit Document)

Non-NOx SIP Call Phase II Fuel Burning Equipment Requirements - (M/L 1-11)

Limitations

22. **Fuel Burning Equipment Requirements - (M/L 1-11) - Limitations** - SO₂ emissions from the operation of each auxiliary engine (M/L 1-11) shall not exceed the limits specified below:

Emission Unit ID	Max. Heat Input (Btu/hr)	SO ₂ lb/10 ⁶ Btu	SO ₂ lb/hr	SO ₂ ton/yr
M/L 01	18.0 x 10 ⁶	2.64	47.52	N/A
M/L 02	18.0 x 10 ⁶	2.64	47.52	N/A
M/L 03	18.0 x 10 ⁶	2.64	47.52	N/A
M/L 04	18.0 x 10 ⁶	2.64	47.52	N/A
M/L 05	18.0 x 10 ⁶	2.64	47.52	N/A
M/L 06	18.4 x 10 ⁶	2.64	48.58	N/A
M/L 07	18.4 x 10 ⁶	2.64	48.58	N/A
M/L 08	23.5 x 10 ⁶	2.64	62.04	N/A
M/L 09	23.3 x 10 ⁶	2.64	61.51	N/A
M/L 10	23.3 x 10 ⁶	2.64	61.51	N/A
M/L 11	37.7 x 10 ⁶	2.64	99.53	N/A

(9 VAC 5-80-110 and 9 VAC 5-40-2890)

23. **Fuel Burning Equipment Requirements - (M/L 1-11) - Limitations** - The hydrogen sulfide (H₂S) emissions into the atmosphere from the SRICEs (Ref. Nos. M/L 1-11) shall not exceed a concentration greater than 15 grains per 100 cubic feet of exhaust gas without burning or removing H₂S in excess of this concentration, provided that SO₂ 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)

24. **Fuel Burning Equipment Requirements - (M/L 1-11) - Limitations** - Visible emissions from each engine stack shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60% opacity when the engines are operating.
(9 VAC 5-40-80 and 9 VAC 5-80-110)

Monitoring

25. **Fuel Burning Equipment Requirements - (M/L 1-11) - Monitoring** - Daily observation of the presence of visible emissions from each engine stack shall be made 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 40CFR60 Appendix A) for a minimum of six 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 book.
(9VAC5-80-110)

Recordkeeping

26. **Fuel Burning Equipment Requirements - (M/L 1-11) - Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:
- a. The annual throughput of natural gas (in million cubic feet) for each SRICE (Ref. M/L1-M/L11). The annual throughput shall be calculated as the sum of each consecutive twelve (12) month period.
 - b. The equations, emission factors, origin of emission factors, and all supporting documentation for criteria pollutant emissions, including the sulfur content of the natural gas.
 - c. Develop a maintenance schedule and maintain records of all scheduled and unscheduled maintenance to each SRICE (Ref. M/L1-M/L11) and operator training.

- d. Results of all performance evaluations.
- e. Observation log required by Condition 25.

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)

Fuel Burning Requirements - (AUX 4 - 5)

Invalidation

27. **Fuel Burning Equipment Requirements - (AUX 4 - 5) - Invalidation** - The construction permit for the auxiliary engines AUX 4 - 5 dated December 19, 2012 shall become invalid, unless an extension is granted by the DEQ, if:
- a. A program of continuous construction, reconstruction, or modification is not commenced within 18 months from December 19, 2012; or
 - b. A program of construction, reconstruction, or modification is discontinued for a period of 18 months or more, or is not completed within a reasonable time, except for a DEQ approved period between phases of the phased construction of a new stationary source or project.
- (9 VAC 5-80-110 and Condition 9 of 12/19/12 Permit Document)
28. **Fuel Burning Equipment Requirements - (AUX 4 - 5) - Permit Invalidation** - The construction permit dated December 19, 2012 may be suspended or revoked (and the associated requirements from the construction permit stated in this Federal Operating Permit) 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 emissions unit;
 - d. Causes emissions from the stationary source which result in violations of, or interfere with the attainment and maintenance of, any ambient air quality standard; or
 - e. Fails to operate in conformance with any applicable control strategy, including any emission standards or emissions limitations, in the State Implementation Plan in effect at the time an application for this permit is submitted.

(9 VAC 5-80-110 and Condition 10 of 12/19/12 Permit Document)

Limitations

29. **Fuel Burning Equipment Requirements - (AUX 4 - 5) - Limitations** - NO_x, CO, and VOC emissions from each auxiliary engine shall be controlled by non-selective catalytic reduction (NSCR). The NSCR shall be provided with adequate access for inspection and shall be in operation when the respective engine is operating.
(9 VAC 5-80-110 and Condition 2 of 12/19/12 Permit Document)
30. **Fuel Burning Equipment Requirements - (AUX 4 - 5) - Limitations** - The approved fuel for the auxiliary engines is natural gas. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 4 of 12/19/12 Permit Document)
31. **Fuel Burning Equipment Requirements - (AUX 4 - 5) - Limitations** - Emissions from the operation of each auxiliary engine shall not exceed the limits specified below:
- | | | |
|--|------------|--------------|
| Nitrogen Oxides
(as NO ₂) | 2.4 lbs/hr | 10.5 tons/yr |
| Carbon Monoxide | 4.7 lb/hr | 20.6 tons/yr |
| Volatile Organic
Compounds | 1.4 lb/hr | 6.1 tons/yr |
- (9 VAC 5-80-110 and Condition 5 of 12/19/12 Permit Document)
32. **Fuel Burning Equipment Requirements - (AUX 4 - 5) - Limitations** - Visible emissions from the auxiliary engines stacks shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity when the auxiliary engines are operating. This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-50-80 and 9 VAC 5-80-110)

Monitoring

33. **Fuel Burning Equipment Requirements - (AUX 4 - 5) - Monitoring** - Each non-selective catalytic reduction unit shall be equipped with devices to continuously measure and record the catalyst bed inlet temperature and the catalyst bed differential pressure. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the respective engine is operating.
(9 VAC 5-80-110 and Condition 3 of 12/19/12 Permit Document)

34. **Fuel Burning Equipment Requirements - (AUX 4 - 5) - Monitoring** - Daily observation of the presence of visible emissions from each engine stack shall be made 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 40CFR60 Appendix A) for a minimum of six 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 book.
(9VAC5-80-110)

Maintenance/Operating Procedures

35. **Fuel Burning Equipment Requirements - (AUX 4 - 5) - 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 the auxiliary engines AUX4 - 5 and the respective air pollution control equipment:

- 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 5-80-110 and Condition 12 of 12/19/12 Permit Document)

Recordkeeping

36. **Fuel Burning Equipment Requirements - (AUX 4 - 5) - Recordkeeping** - 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 Blue Ridge Regional Office. These records shall include, but are not limited to:

- a. Records of the hourly catalyst inlet temperature and differential pressure across the catalyst bed for each auxiliary engine.
(Condition 6.a of 12/19/12 Permit Document)
- b. Monthly and annual emissions calculations for NO_x, CO, VOC from each auxiliary engine using calculation methods approved by the Blue Ridge Regional Office to verify compliance with the ton/yr emissions limitations in Condition 31. Annual emissions shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(Condition 6.b of 12/19/12 Permit Document)
- c. The equations, emission factors, origin of emission factors, and all supporting documentation for criteria pollutant emissions.
- d. The annual throughput of natural gas (in million cubic feet) for each auxiliary engine. The annual throughput shall be calculated as the sum of each consecutive twelve (12) month period.
- e. Observation log required by Condition 34.
- f. Copies of all notifications required by Condition 38.
- g. Results of all stack tests and performance evaluations.
(Condition 6.c of 12/19/12 Permit Document)

These records shall be available for inspection by the DEQ and shall be current for the most recent five years
(9 VAC 5-80-110 and Condition 6 of 12/19/12 Permit Document)

Testing

37. **Fuel Burning Equipment Requirements - (AUX 4 - 5) - Stack Test** - Initial performance tests shall be conducted for NO_x, CO, and VOC from each NSCR stack to determine compliance with the emission limits contained in Condition 31. The tests shall be performed and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of the permitted facility. Tests shall be conducted and reported and data reduced as set forth in 9VAC5-50-30, and the test methods and procedures contained in each applicable section or subpart listed in 9VAC5-50-410. The details of the tests are to be arranged with the Blue Ridge Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. One copy of the test results shall be submitted to the Blue Ridge Regional Office 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 7 of 12/19/12 Permit Document)

Notification

38. **Fuel Burning Equipment Requirements - (AUX 4 - 5) - Initial Notifications** - The permittee shall furnish written notification to the Blue Ridge Regional Office of:
- a. The actual date on which construction of the auxiliary engines commenced within 30 days after such date.
 - b. The actual start-up date of each auxiliary engine within 15 days after such date.
 - c. The anticipated date of performance tests of each auxiliary engine postmarked at least 30 days prior to such date

(9 VAC 5-80-110 and Condition 8 of 12/19/12 Permit Document)

General

39. **Fuel Burning Equipment Requirements - (AUX 4 - 5) - Transfer of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current minor NSR permit issued to the previous owner. The new owner shall notify the Blue Ridge Regional Office of the change of ownership within 30 days of the transfer.
(9 VAC5-80-110 and Condition 16 of 12/19/12 Permit Document)
40. **Fuel Burning Equipment Requirements - (AUX 4 - 5) - Permit Copy** - The permittee shall keep a copy of the December 19, 2012 permit on the premises of the facility to which it applies.
(9 VAC5-80-110 and Condition 17 of 12/19/12 Permit Document)

New Source Performance Standard (NSPS) 40 CFR Subpart JJJJ Requirements - (AUX 4 - 5)

Limitations

41. **NSPS Subpart JJJJ Requirements - (AUX 4 - 5) - Limitations** - The permittee may not install stationary SI ICE with a maximum engine power of greater than or equal to 500 HP that do not meet the applicable requirements in §60.4233.
(9 VAC 5-80-110 and 40 CFR 60.4236(b))
42. **NSPS Subpart JJJJ Requirements - (AUX 4 - 5) - Limitations** - The permittee must comply with the applicable emission standards in Subpart JJJJ Table 1. If the SI ICE is manufactured prior to January 1, 2011 and certified to the certification emission standards in 40 CFR part 1048 applicable to engines that are not severe duty engines and if such stationary SI ICE was certified to a carbon monoxide (CO) standard above the standard in Subpart JJJJ's Table 1, then the permittee may meet the CO certification (not field testing) standard for which the engine was certified.
(9 VAC 5-80-110 and 40 CFR 60.4233(e))
43. **NSPS Subpart JJJJ Requirements - (AUX 4 - 5) - Limitations** - The permittee must operate and maintain stationary SI ICE that achieve the emission standards as required in §60.4233 over the entire life of the engine.
(9 VAC 5-80-110 and 40 CFR 60.4236(b))
44. **NSPS Subpart JJJJ Requirements - (AUX 4 - 5) - Limitations** - The air-to-fuel ratio controllers used with the operation of non-selective catalytic reduction system must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.
(9 VAC 5-80-110 and 40 CFR 60.4243(g))

Recordkeeping

45. **NSPS Subpart JJJJ Requirements - (AUX 4 - 5) - Recordkeeping** - The permittee shall maintain the following records:
 - a. All notifications submitted to comply with this subpart and all documentation supporting any notification.
 - b. Maintenance conducted on each engine.
 - c. If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.
 - d. If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards.

(9 VAC 5-80-110 and 40 CFR 60.4245(a))

Notification

46. **NSPS Subpart JJJJ Requirements - (AUX 4 - 5) - Notification** - The permittee shall submit the following notifications, if applicable:

- a. An initial notification as required in §60.7(a)(1), with the information stated in §60.4245(c)(1) through (5), if the engine has not been certified by an engine manufacturer to meet the emission standards in §60.4231.
- b. A copy of each performance test within 60 days after the test has been completed, if the stationary SI ICE is subject to performance testing requirements stated in §60.4244.

(9 VAC 5-80-110 and 40 CFR 60.4245(c) and (d))

Testing

47. **NSPS Subpart JJJJ Requirements - (AUX 4 - 5) - Testing** - If testing is conducted to demonstrate compliance with the applicable Subpart JJJJ emissions standards, the permittee shall follow the test methods and other procedures as stated in §60.4244, including Subpart JJJJ Table 2.

(9 VAC 5-80-110 and Subpart JJJJ)

General

48. **NSPS Subpart JJJJ Requirements - (AUX 4 - 5) - General Provisions** - The permittee shall comply with the applicable requirements of General Provisions in §§60.1 through 60.19 as identified in Subpart JJJJ Table 3.

(9 VAC 5-80-110 and 40 CFR 60.4246)

Compliance

49. **NSPS Subpart JJJJ Requirements - (AUX 4 - 5) - Compliance** - Compliance with the emissions standards required in Condition 41 must be demonstrated by either of the following:

- a. Purchasing a certified engine per §60.4243(b)(1).
- b. Purchasing a noncertified engine and demonstrating compliance per §60.4243(b)(2) as follows:
 - i. Keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
 - ii. Conduct initial and subsequent performance tests following the applicable test methods and procedures as provided in Condition 47. Subsequent performance tests must be performed every 8,760 hours or 3 years, whichever comes first per §60.4243(b)(2)(ii).

(9 VAC 5-80-110)

National Emissions Standards for Hazardous Air Pollutants (NESHAP) MACT Subpart ZZZZ Requirements - (AUX 4 – 5)

Limitations

50. **NESHAP MACT Subpart ZZZZ Requirements - (AUX 4 - 5) - Limitations** - The permittee shall comply with the emission limitations in Subpart ZZZZ Table 1a and the operating limitations in Subpart ZZZZ Table 1b. Compliance with the numerical emission limitations is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Subpart ZZZZ Table 4.
(9 VAC 5-80-110 and 40 CFR 63.6600(a))
51. **NESHAP MACT Subpart ZZZZ Requirements - (AUX 4 - 5) - Limitations** - During periods of startup the permittee shall minimize the engine's time spent at idle during startup 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 applicable emission standards applicable to all times other than startup in Subpart ZZZZ Table 1a apply.
(9 VAC 5-80-110 and 40 CFR 63.6625(h))
52. **NESHAP MACT Subpart ZZZZ Requirements - (AUX 4 - 5) – Limitations** - The applicable emission limitations, operating limitations, and other requirements of Subpart ZZZZ apply at all times. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
(9 VAC 5-80-110 and 40 CFR 63.6605(a) and (b))

Monitoring

53. **NESHAP MACT Subpart ZZZZ Requirements - (AUX 4 - 5) - Monitoring** - The permittee shall install a continuous parameter monitoring system (CPMS) to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b) as specified in Subpart ZZZZ Table 5. The permittee shall install, operate, and maintain each CPMS according to the requirements in §63.6625(b)(1) through (6), and in accordance to procedures in a site-specific prepared monitoring plan. The permittee shall monitor and collect data according to §63.6635.
(9 VAC 5-80-110 and 40 CFR Part 63 Subpart ZZZZ)

Recordkeeping

54. **NESHAP MACT Subpart ZZZZ Requirements - (AUX 4 - 5) – 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 §63.6660.
(9 VAC 5-80-110 and 40 CFR Part 63 Subpart ZZZZ)

Testing

55. **NESHAP MACT Subpart ZZZZ Requirements - (AUX 4 - 5) - Testing** - The permittee shall conduct the initial performance test as required in §63.6610 and in accordance to the applicable requirements of §63.6620 and Subpart ZZZZ Table 4.
(9 VAC 5-80-110 and 40 CFR Part 63 Subpart ZZZZ)

Notifications

56. **NESHAP MACT Subpart ZZZZ Requirements - (AUX 4 - 5) - Notifications** - The permittee shall meet the applicable notification requirements in §63.6645 and in 40 CFR Part 63, Subpart A.
(9 VAC 5-80-110 and 40 CFR 63.6595(c))

Reporting

57. **NESHAP MACT Subpart ZZZZ Requirements - (AUX 4 - 5) - 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 as required by §63.6650(b).
(9 VAC 5-80-110 and 40 CFR 63.6650)

General

58. **NESHAP MACT Subpart ZZZZ Requirements - (AUX 4 - 5) - 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 63.6665)

Compliance

59. **NESHAP MACT Subpart ZZZZ Requirements - (AUX 4 - 5) - Initial Compliance** - The permittee shall demonstrate initial compliance according to the applicable requirements of §63.6630 and Subpart ZZZZ Table 5.
(9 VAC 5-80-110 and 40 CFR Part 63 Subpart ZZZZ)
60. **NESHAP MACT Subpart ZZZZ Requirements - (AUX 4 - 5) - Continuous Compliance** - The permittee shall demonstrate continuous compliance according to the applicable requirements of §63.6640.
(9 VAC 5-80-110 and 40 CFR Part 63 Subpart ZZZZ)

Facility Wide Conditions

Limitations

61. **Process Equipment Requirements - (Fugitive and FUGS) – Limitations** - The permittee shall take the following measures in order to minimize the duration and frequency of fugitive VOC emissions from piping components (valves, flanges, etc), SRICE crankcase vents, compressor packing, pig launching and recovery, and scheduled and emergency pipeline blow downs (Ref. FUGS) which affect such emissions:
- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance to compressor engines and natural gas compressors.
 - b. Have available written operating procedures for pig launching and recovery and scheduled pipeline blow downs.
 - c. Operators shall be trained in the proper operation in sources of fugitive VOC emissions. Training shall consist of a review and familiarization of the manufacturer's operating instructions and company operating procedures, at minimum.

(9 VAC 5-80-110)

Recordkeeping

62. **Facility Wide Conditions - Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

- a. 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), corrective action, preventive measures taken and name of person generating the record.
(Condition 13 of 12/19/12 Permit Document)
- b. Annual VOC emissions (in tons) for facility-wide fugitive emissions, calculated monthly as the sum of each consecutive twelve (12) month period, using calculation methods approved by the Blue Ridge Regional Office.
- c. Information sufficient to calculate actual facility-wide fugitive emissions (VOC and HAPs).
- d. Copies of all notifications, reports and certifications required by this permit.

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 5-50-50 and 9 VAC 5-80-110)

Testing

63. **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 locations.
 (9 VAC 5-40-30, 9 VAC 5-50-30 and 9 VAC 5-80-110)
64. **Facility Wide Conditions - Testing** - If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
 (9 VAC 5-80-110)

General

65. **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 1/24/07 Permit Document and Condition 15 of 12/19/12 Permit Document)

Insignificant Emission Units

66. **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 9 VAC.	Pollutant(s) Emitted (9 VAC 5-80-720B)	Rated Capacity (9 VAC 5-80-720C)
IA6	75-gallon Jacket Water (JW) reclaim tank (located in Auxiliary Building)	5-80-720 B.2	VOC < 5 tons/yr	NA
IA7	49-gallon JW recovery tank	5-80-720 B.2	VOC < 5 tons/yr	NA
IA8	1,100-gallon hydraulic oil storage tank	5-80-720 B.2	VOC < 5 tons/yr	NA
IA9	550-gallon hydraulic oil transfer tank	5-80-720 C.3	NA	< 1,000 gallons
IA10	2,055-gallon antifreeze transfer tank (ethylene glycol)	5-80-720 B.2 & B.5	VOC < 5 tons/yr & HAP ≤ 1,000 lbs/yr	NA
IA11	2,055-gallon antifreeze transfer tank (ethylene glycol)	5-80-720 B.2 & B.5	VOC < 5 tons/ yr & HAP ≤ 1,000 lbs/yr	NA
IA12	6,500-gallon antifreeze transfer tank (ethylene glycol)	5-80-720 B.2 & B.5	VOC < 5 tons/yr & HAP ≤ 1,000 lbs/yr	NA
IA13	3,133-gallon used oil storage tank	5-80-720 B.2	VOC < 5 tons/yr	NA
IA15	733 gallon-lube oil settling sump	5-80-720 C.3	NA	< 1,000 gallons

IA16	1,496-gallon lube oil settling sump	5-80-720 B.2	VOC < 5 tons/yr	NA
IA18	11,628-gallon lube oil storage tank (installed 1950)	5-80-720 B.2	VOC < 5 tons/yr	NA
IA19	446-gallon lube oil day tank	5-80-720 C.3	NA	< 1,000 gallons
IA20, IA21, IA22,	450-gallon each JW surge tanks (Ref M/L 9-11)	5-80-720 B.2	VOC < 5 tons/yr each	NA
IA23	14,300-gallon JW surge tank (installed 1950)	5-80-720 B.2	VOC < 5 tons/yr	NA
IA25, IA26, IA27	337-gallon each lube oil cooling water surge tanks (Ref. M/L 9-11)	5-80-720 B.2	VOC < 5 tons/yr each	NA
IA28	341-gal hydraulic oil surge tank (Ref. M/L 9)	5-80-720 C.3	N/A	< 1,000 gallons
IA29 & IA30	35-gal each hydraulic oil surge tanks (Ref. M/L 10-11)	5-80-720 C.3	N/A	< 1,000 gallons each
IA31	8,820-gallon wastewater storage tank	5-80-720 B.2	VOC < 5 tons/yr	NA
IA32	3,171-gallon NG condensate liquids storage tank	5-80-720 B.2 & B.5	VOC < 5 tons/yr & HAP ≤ 1,000 lbs/yr	NA
IA37	Parts washer	5-80-720 B.2	VOC < 5 tons/yr	N/A
IA38	96-gallon portable diesel storage tank	5-80-720 B.2	VOC < 5 tons/yr	NA
IA42	2,349 gallon lube oil cooling water surge tank	5-80-720 B.2	VOC < 5 tons/yr	NA
IA43	262-gallon diesel storage 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 these emission units in accordance with 9 VAC 5-80-110.

Permit Shield & Inapplicable Requirements

67. **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 63 Subpart HH	National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities	Compressor Station No. 170 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	National Emission Standards for	Compressor Station No. 170 does not include glycol

Subpart HHH	Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities	dehydration facilities and is not subject to this subpart's requirements per 40 CFR 63.1270(c)
40 CFR 63 Subpart EEEE (OLD MACT)	National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)	Compressor Station No. 170 meets the definition of "facility" per 40 CFR 63.1271 (MACT Subpart HHH) and is not subject to the OLD MACT per 40 CFR 63.2334(c)(2).
40 CFR 64	Compliance Assurance Monitoring (CAM)	40 CFR 64.2(a); M/L 1-11 SRICE do not have add-on air pollution control devices as defined in 40 CFR 64.1.
40 CFR 64	Compliance Assurance Monitoring (CAM)	AUX 4 & 5: These units have potential pre-control device NOx emissions equal to or greater than 100 percent of the amount, in tons per year, required for a source to be classified as a major source. The potential pre-control device emissions of all other pollutants from these units are less than 100 percent of the amount, in tons per year, required for a source to be classified as a major source. The NOx emissions from these engines are subject to NOx emission standards under section 111 of the Clean Air Act that were proposed after November 15, 1990 (40 CFR 60 Subpart JJJJ). Pursuant to 40 CFR 64.2(b)(1), these units are not applicable to CAM.
40 CFR 68	Chemical Accident Prevention Provision	Compressor Station 170 is regulated under 40 CFR 192, not a stationary source per 40 CFR 68.3.
CAA Section 112(r)	Risk Management Plans	Compressor Station 170 is regulated under 40 CFR 192, not a stationary source per 40 CFR 68.3.
50 CFR 60 Subpart Kb	New Source Performance Standards (NSPS) for Volatile Organic Liquid Storage Vessels	Compressor Station No. 170's liquid storage vessels have a capacity of less than 75m ³ and are subject to this subpart's requirements per 40 CFR 60.11b(a).
40 CFR 60 Subpart JJJJ	New Source Performance Standards (NSPS) for Stationary Spark Ignited Internal Combustion Engines (SI ICE)	40 CFR 60.4230; each of the M/L 1 through M/L 11 engines SRICE manufactured prior to and have not been modified after 6/12/2006.
40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	Each of the M/L 1 through M/L 11 engines are existing spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of more than 500 brake hp (located at a major source of HAP emissions). Therefore, are not required to meet the requirements of Subpart ZZZZ per 40 CFR 63.6590(b)(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 applicable 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.
 (9 VAC 5-80-140)

General Conditions

68. **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 5-80-110 N)
69. **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)
70. **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 5-80-110 D and 9 VAC 5-80-170 B)
71. **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 5-80-110 D and 9 VAC 5-80-170 B)
72. **General Conditions - Permit Expiration** - No source shall operate after the time that it 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 of 9 VAC 5 Chapter 80.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
73. **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 5-80-110 D and 9 VAC 5-80-170 B)
74. **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 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)

75. **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 measurements;
- b. The date(s) analyses were performed;
- c. The company or entity that performed the analyses;
- d. The analytical techniques or methods used;
- e. The results of such analyses; and
- f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)

76. **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)

77. **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. This 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; and
- b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
 - i. Exceedance of emissions limitations or operational restrictions;
 - ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
 - iii. 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)

78. **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 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 of 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; and
- g. One copy of the annual compliance certification shall be submitted to EPA in 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)

79. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Blue Ridge Regional Office within four daytime business hours after discovery of any deviations from 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 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 77 of this permit. (9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)
80. **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 Blue Ridge Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Blue Ridge Regional Office. (9 VAC 5-20-180 C and Condition III.I.2 of 1/24/07 Permit Document and Condition 14 of 12/19/12 Permit Document)
81. **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)
82. **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)
83. **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 this permit. (9 VAC 5-80-110 G.3)

84. **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 VAC 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)
85. **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)
86. **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 and 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)
87. **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)
88. **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)
89. **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)

90. **General Conditions - Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and 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 5-50-20 E and 9 VAC 5-40-20 E)

91. **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 scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such 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)

92. **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 facilities, 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.

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 5-80-110 K.2, Condition III.I.1 of 1/24/07 Permit Document and Condition 11 of 12/19/12 Permit Document)

93. **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 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 has been extended pursuant to 9 VAC 5-80-80 F. The conditions for reopening a permit are as follows:
- a. The 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 not 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)

94. **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)
95. **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)
96. **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 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
97. **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 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
98. **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 stated in Condition 99 are met.
(9 VAC 5-80-250)
99. **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 exceeded 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 actions taken. The notification may be delivered either orally or in writing. 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)

100. **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)
101. **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)
102. **General Conditions - 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, any applicable requirements, or the applicable 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)
103. **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 a draft permit.
(9 VAC 5-80-80 E)
104. **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, Subparts A to F.
(40 CFR Part 82, Subparts A-F)

105. **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)
106. **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)
107. **General Conditions - Changes to Permits for Emissions Trading** - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (9 VAC 5-80-110 I)
108. **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)