

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 Corporation  
Facility Name: Compressor Station No. 165  
Facility Location: 945 Transco Road  
Chatham, Virginia  
Registration Number: 30864  
Permit Number: SCRO30864

This permit includes the following programs:

**Federally Enforceable Requirements - Clean Air Act (Sections I through IX)**

Permit Number: SCRO30864

\_\_\_\_\_  
November 26, 2008  
Effective Date

\_\_\_\_\_  
November 25, 2013  
Expiration Date

\_\_\_\_\_  
Regional Director, Department of Environmental Quality

\_\_\_\_\_  
September 30, 2008  
Signature Date

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## **I. Facility Information**

### **Permittee**

Transcontinental Gas Pipe Line Corporation  
P. O. Box 1396  
Houston, TX 77251-1396

### **Responsible Official**

Mr. Mark Bisett  
Manager-Environmental Compliance

### **Facility**

Transcontinental Gas Pipe Line Corporation - Compressor Station No. 165  
945 Transco Road  
Chatham, Virginia 24531  
Pittsylvania County

### **Contact Person**

Michael C. Callegari  
Sr. Environmental Scientist  
(713) 215-4584

**County-Plant Identification Number:** 51-143-0120

**Facility Description:** NAICS 486210; SIC Code 4922 – Transco is an interstate natural gas transmission company. Transco's compressor stations are used to compress and move the gas along the system. Transco's Compressor Station No. 165 is one of twelve facilities which is part of the Charlottesville Division. Operations at Station No. 165 began in the late 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). The upstream piping located on site includes pig receivers and gas filters. The on-site downstream piping includes pig launchers. 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 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. Compressor Station No. 165's SRICE are in a source category subject to the provisions of 9 VAC 5 Chapter 40 and 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT), but are not currently subject to any applicable requirements. The NOx SIP Call Rule (63 FR 57356, October 27, 1998 and 69 FR 21604, April 21, 2004), which addresses the interstate transport of ozone, applies to the Station 165's one large SRICE (Ref. M/L 11). A source specific state implementation plan (SIP) revision for the control of NOx emissions during the ozone season (formerly EPA's NOx SIP Call Phase II) from Station 165 was issued on January 24, 2007

## II. Emission Units

Equipment to be operated consists of:

<b>Emission Unit ID</b>	<b>Stack ID</b>	<b>Emission Unit Description</b>	<b>Maximum Rated Capacity*</b>	<b>Ozone Season NOx SIP Call Control Strategy</b>	<b>PCD ID</b>	<b>Pollutant Controlled</b>	<b>Applicable Permit Date*</b>
M/L 1	01	2-cycle, spark-ignited, lean burn, (2SLB) IC reciprocating engine Clark TLA -6, mainline natural gas compressor, (before 1972)	2,100 HP (17.2 MM Btu/hr)	None	None	None	None
M/L 2	02	2SLB IC reciprocating engine, Clark TLA -6, mainline natural gas compressor, (before 1972)	2,100 HP (17.2 MM Btu/hr)	None	None	None	None
M/L 3	03	2SLB IC reciprocating engine, Clark TLA -6, mainline natural gas compressor, (before 1972)	2,100 HP (17.2 MM Btu/hr)	None	None	None	None
M/L 4	04	2SLB IC reciprocating engine, Clark TLA -6, mainline natural gas compressor, (before 1972)	2,100 HP (17.2 MM Btu/hr)	None	None	None	None
M/L 5	05	2SLB IC reciprocating engine, Clark TLA -6, mainline natural gas compressor, (before 1972)	2,100 HP (17.2 MM Btu/hr)	None	None	None	None
M/L 6	06	2SLB IC reciprocating engine, Clark TLA -6, mainline natural gas compressor, (before 1972)	2,100 HP (17.2 MM Btu/hr)	None	None	None	None
M/L 7	07	2SLB IC reciprocating engine, Clark TLA -6, mainline natural gas compressor, (before 1972)	2,100 HP (17.2 MM Btu/hr)	None	None	None	None
M/L 8	08	2SLB IC reciprocating engine, Clark TLA -6, mainline natural gas compressor, (before 1972)	2,100 HP (17.2 MM Btu/hr)	None	None	None	None
M/L 9	09	2SLB IC reciprocating engine, Clark TLA -6, mainline natural gas compressor, (before 1972)	2,100 HP (17.2 MM Btu/hr)	None	None	None	None
M/L 10	10	2SLB IC reciprocating engine, Clark TLA -6, mainline natural gas compressor, (before 1972)	2,100 HP (17.2 MM Btu/hr)	None	None	None	None

Emission Unit ID	Stack ID	Emission Unit Description	Maximum Rated Capacity*	Ozone Season NOx SIP Call Control Strategy	PCD ID	Pollutant Controlled	Applicable Permit Date*
M/L 11	11	2SLB IC reciprocating engine, Clark TCV-10, mainline natural gas compressor, (before 1972)	3,400 HP (27.8 MM Btu/hr)	high pressure fuel injection (HPFi™), internal engine changes, new turbochargers and intercoolers, and instrumentation, and control systems	None	NOx	1/24/2007
AUX 1	12	4 cycle, spark ignited, rich burn (4SRB) IC reciprocating engine, Ingersoll Rand PSVG-6, auxiliary electric power generator (before 1972)	408 HP (5.5 MM Btu/hr)	None	None	None	None
AUX 2	13	4SRB IC reciprocating engine, Ingersoll Rand PSVG-6, auxiliary electric power generator (before 1972)	408 HP (5.5 MM Btu/hr)	None	None	None	None
A/C 1	14	4SRB IC reciprocating engine, Waukesha F-817G, air compressor, (before 1972)	105 HP (1.0 MM Btu/hr)	None	None	None	None

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

### III. Ozone Season definitions:

These definitions apply to the affected facilities identified in Table IV.A.2 during the Ozone Season, as defined below.

**Affected Engine** means any stationary IC engine that is a Large NO<sub>x</sub> SIP Call Engine, or other stationary IC engine that is subject to NO<sub>x</sub> emission reduction requirements under this permit.

**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.

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

**Code** means the Code of Virginia.

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

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

**Large NO<sub>x</sub> SIP Call Engine** means a stationary IC engine identified and designated as “large” in the NO<sub>x</sub> SIP Call Engine Inventory as emitting more than one ton of NO<sub>x</sub> per average ozone season day in 1995.

**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.

**NO<sub>x</sub>** means nitrogen oxides as defined by 9 VAC 5-10-20 of the SAPCB Regulations.

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

**Past NO<sub>x</sub> 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 NO<sub>x</sub> Emission Rate may be determined by the State on a case-by-case basis using, for example, appropriate emission factors or data from the NO<sub>x</sub> SIP Call Engine Inventory. For any affected unit subject to the NO<sub>x</sub> SIP Call, the Past NO<sub>x</sub> Emission Rate is the uncontrolled emission rate.

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

**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.

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

**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.

**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.

**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 permit dated 1/24/2007)

**IV. Fuel Burning Equipment Requirements – (Ref. M/L1-11, AUX 1-2, A/C 1)**

**Table IV.A.1**

Emission Unit ID	Max. Heat Input (Btu/hr)	SO <sub>2</sub> <sup>note 1</sup> lb/10 <sup>6</sup> Btu	SO <sub>2</sub> <sup>note 1</sup> lb/hr	SO <sub>2</sub> ton/yr	Ozone Season Projected NO <sub>x</sub> Emission Rate (lb/hr-ozone season <sup>note 2</sup> )	Ozone Season Projected NO <sub>x</sub> Emission Rate (ton/ozone season <sup>note 2</sup> )
M/L 01	17.2 x 10 <sup>6</sup>	2.64	45.408	N/A	N/A	N/A
M/L 02	17.2 x 10 <sup>6</sup>	2.64	45.408	N/A	N/A	N/A
M/L 03	17.2 x 10 <sup>6</sup>	2.64	45.408	N/A	N/A	N/A
M/L 04	17.2 x 10 <sup>6</sup>	2.64	45.408	N/A	N/A	N/A
M/L 05	17.2 x 10 <sup>6</sup>	2.64	45.408	N/A	N/A	N/A
M/L 06	17.2 x 10 <sup>6</sup>	2.64	45.408	N/A	N/A	N/A
M/L 07	17.2 x 10 <sup>6</sup>	2.64	45.408	N/A	N/A	N/A
M/L 08	17.2 x 10 <sup>6</sup>	2.64	45.408	N/A	N/A	N/A
M/L 09	17.2 x 10 <sup>6</sup>	2.64	45.408	N/A	N/A	N/A
M/L 10	17.2 x 10 <sup>6</sup>	2.64	45.408	N/A	N/A	N/A
M/L 11 <sup>note 3</sup>	27.8 x 10 <sup>6</sup>	2.64	73.39	N/A	19.20	35.25
AUX 1	5.5 x 10 <sup>6</sup>	2.64	14.52	N/A	N/A	N/A
AUX 2	5.5x 10 <sup>6</sup>	2.64	14.52	N/A	N/A	N/A
A/C 1	1.0 x 10 <sup>6</sup>	2.64	2.64	N/A	N/A	N/A
Total for Ozone Season Projected NO <sub>x</sub> Emission Rate (ton/ozone season <sup>note 2</sup> )						35.25

Note 1 9 VAC 5-40-280

Note 2 Condition III.E.1 of permit dated 1/24/2007

Note 3 Only the Clark TCV-10 engine (Ref. M/L 11) is subject to NOx SIP Call emissions reductions.

**Table IV.A. 2**

Affected engine 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
M/L 11	Clark	TCV-10	3,400 HP

(9 VAC 5-80-110 and Condition III.B.1 of the permit dated 1/24/2007)

**A. Limitations**

1. The approved fuel for the spark ignited reciprocating internal combustion engines (SRICE) (Ref. M/L 1-11, AUX 1-2, 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)

2. The hydrogen sulfide (H<sub>2</sub>S) emissions into the atmosphere from the SRICEs (Ref. M/L1-11, AUX 1-2, A/C 1) shall not exceed a concentration greater than 15 grains per 100 cubic feet of exhaust gas without burning or removing H<sub>2</sub>S in excess of this concentration, provided that SO<sub>2</sub> 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)
3. Beginning on May 1, 2007, the owner or operator of any affected engine identified in Table IV.A.2 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 the permit dated 1/24/2007)
4. The NO<sub>x</sub> SIP Call emissions reduction requirements for the affected engines listed in Table IV.A.2 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 the permit dated 1/24/2007)
5. Beginning on May 1, 2007, NO<sub>x</sub> SIP Call emissions from the operation of the affected engine (Ref. M/L 11) shall not exceed the projected emission rates specified in Table IV.A.1 during the ozone season.  
(9 VAC 5-80-110 and Condition III.E.1 of the permit dated 1/24/2007)
6. Visible Emissions from each of the SRICE (Ref. M/L 1- 11, AUX 1-2, A/C 1) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).  
(9 VAC 5-80-110 and 9 VAC 5-40-80)
7. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to each SRICE (Ref. M/L 1-11, AUX 1-2, A/C 1) which affect such emissions:
  - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance for the SRICEs (Ref. M/L 1-11, AUX 1-2, A/C 1).
  - b. Have available written operating procedures for the SRICEs (Ref. M/L 1-11, AUX 1-2, A/C 1). These procedures shall be based on the manufacturer's recommendations, at minimum, if such recommendations exist.
  - c. SRICE-powered engine operators shall be trained in the proper operation of all equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.

(9 VAC 5-80-110 E and 9 VAC 5-40-20 E)

8. 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 the permit dated 1/24/2007)
9. 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 Corporation, for good cause shown by Transcontinental Gas Pipe Line Corporation, 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 the permit dated 1/24/2007)

## **B. Periodic Monitoring**

1. At least one time per calendar week an observation of the presence of visible emissions from each SRICE (Ref. M/L 1-10, AUX 1-2, A/C 1) exhaust stack (Ref. Nos. 01-10, 12-14) shall be made. The presence of visible emissions shall require the permittee to:
  - a. take timely corrective action such that the SRICE (Ref. M/L 1-10, AUX 1-2, A/C 1) exhaust stack (Ref. Nos. 01-10, 12-14) with visible emissions, resumes operation with no visible emissions, or,
  - b. conduct a visible emission evaluation (VEE) on the SRICE (Ref. M/L 1-10, AUX 1-2, A/C 1) exhaust stack (Ref. Nos. 01-14) with visible emissions, 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 SRICE (Ref. M/L 1-10, AUX 1-2, A/C 1) exhaust stack (Ref. Nos. 01-10, 12-14) are 20 percent opacity or less. If any of the observations exceed the opacity limitation of 20 percent, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the SRICE (Ref. M/L 1-10, AUX 1-2, A/C 1) resumes operation within the 20 percent opacity limit.
2. If visible emissions inspections conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

3. The permittee shall maintain a written stack observation log for each SRICE (Ref. M/L 1-10, AUX 1-2, A/C 1) 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 full name of the observer. If an SRICE (Ref. M/L 1-10, AUX 1-2, A/C 1) has not been operated for any period during the week it shall be noted in the log book.

(9 VAC 5-80-110 E and 9 VAC 5-80-110 K)

**C. Ozone Season Parametric Monitoring for the Affected Engine (Ref. M/L 11)**

1. A Parametric Monitoring Systems (PMS) shall be installed on the affected engine (Ref. M/L 11) to measure and record the operating performance indicators as analytical monitoring for NO<sub>x</sub> 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 the affected engine (Ref. M/L 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 the permit dated 1/24/2007)

2. If the one (1) hour average actual air manifold pressure ( $AMP_{ACT}$ ) of the affected engine (Ref. M/L 11) is less than the calculated critical air manifold pressure ( $AMP_C$ ) for that the affected engine (Ref. M/L 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 the permit dated 1/24/2007)

3. If any three (3) hour average of  $AMP_{ACT}$  of the affected engine (Ref. M/L 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 the permit dated 1/24/2007)

4. If the three (3) hour average of  $AMP_{ACT}$  of the affected engine (Ref. M/L 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 Condition IV.E to re-establish the correlation between parameter levels that indicate proper operation of the affected engine (Ref. M/L 11) and assure compliance with the NO<sub>x</sub> limit. Testing shall be completed and the results submitted to the South Central Regional Office within ninety (90) days of the third occurrence.  
(9 VAC 5-80-110 and Condition III.C.4 of the permit dated 1/24/2007)

#### **D. Recordkeeping**

##### **1. Ozone Season On-site Records**

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 Director, South Central Regional Office. For the affected engine (Ref. M/L 11), these records shall include, but are not limited to:

- a. The number of hours the affected engine (Ref. M/L 11) is operated during the ozone season.
- b. The type and quantity of fuel used during the ozone season for the affected engine (Ref. 11).
- c. Results of all emissions tests.
- d. Periodic monitoring records necessary to demonstrate compliance with emission limits in Table IV.A.1.
- e. Calculations demonstrating compliance with the NO<sub>x</sub> emissions limits listed in Table IV.A.1.
- f. A summary of any corrective maintenance taken.
- g. Records of the portable analyzer calibration.

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 the permit dated 1/24/2007)

## E. Testing

### 1. Ozone Season Compliance Testing for Affected Engine (Ref. M/L 11)

- a. Prior to May 1, 2007 the permittee shall conduct an initial emissions test consistent with 40 CFR Part 60, Appendix A for NO<sub>x</sub> from the affected engine (Ref. M/L 11) using reference method 7(E) to determine compliance with the ozone season allowable NO<sub>x</sub> emission limits contained in Table IV.A.1. The permittee shall submit the testing protocol for approval to the South Central Regional Office at least 30 days prior to the scheduled testing. One copy of the test results shall be submitted to the South Central 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 the permit dated 1/24/2007)

- b. The permittee shall perform a minimum of nine (9) emissions tests runs to establish a correlation between the engine operating parameters in Condition IV.C.1 and NO<sub>x</sub> emissions in Table IV.A.1 from the affected engine (Ref. M/L 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 <sub>ST</sub>	= stoichiometric air/fuel ratio
FSG	= fuel gas specific gravity
FF <sub>SCFM</sub>	= 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 <sub>C</sub>	= critical trapped equivalence ratio
V <sub>TRAP</sub>	= engine trapped volume in cubic feet (ft <sup>3</sup> )
AMP <sub>C</sub>	= 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 the permit dated 1/24/2007)

c. 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 South Central 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 South Central 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 the permit dated 1/24/2007)

d. If the affected engine (Ref. M/L 11) is changed in a manner that results in significant changes in the parameters established in Condition IV.E.1.b the permittee shall repeat the testing required in Condition IV.E.1.b to re-establish the correlation between parameter levels that indicate proper operation of the affected engine (Ref. M/L 11) and assure compliance with the NO<sub>x</sub> limit. Testing shall be completed and the results submitted to the South Central Regional Office within ninety (90) days of the engine change.

(9 VAC 5-80-110 and Condition III.F.4 of the permit dated 1/24/2007)

**2. Periodic Ozone Season Testing for Affected Engine (Ref. M/L 11)**

At least once per ozone season, beginning with the 2008 Ozone Season, the permittee shall test the affected engine (Ref. M/L 11) with a portable analyzer to demonstrate the validity of the PMS and compliance to the ozone season NO<sub>x</sub> emission limit in Table IV.A.1. 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 South Central Regional Office at least 30 days prior to the scheduled testing.
- c. The portable analyzer shall be capable of measuring NO<sub>x</sub> 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.

(9 VAC 5-80-110 and Condition III.D of the permit dated 1/24/2007)

**F. Ozone Season NOx Emissions Reporting for Affected Unit (Ref. M/L 11)**

The permittee shall submit an annual summary report to the Director, South Central 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 the permit dated 1/24/2007)

**G. General On-site Records**

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 South Central Regional Office. These records shall include, but are not limited to:

1. The annual throughput of natural gas (in million cubic feet) for each SRICE (Ref. M/L 1-11, AUX 1-2, A/C 1). The annual throughput shall be calculated as the sum of each consecutive twelve (12) month period.
2. The equations, emission factors, origin of emission factors, and all supporting documentation for criteria pollutant emissions.
3. Scheduled and unscheduled maintenance to each SRICE (Ref. M/L 1-11, AUX 1-2, A/C 1) and operator training.
4. Results of all performance evaluations.
5. Copies of all notifications required by Condition IX.C.

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)

**V. Process Equipment Requirements – (FUGS)**

**A. 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:

1. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance to compressor engines and natural gas compressors.

2. Have available written operating procedures for pig launching and recovery and scheduled pipeline blow downs.
3. 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.

**B. Recordkeeping**

The permittee shall maintain information sufficient to calculate actual emissions (VOC and HAPs), and copies of all reports and notifications required by this permit.

(9 VAC 5-80-110)

**VI. Facility Wide Conditions**

1. 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 and Condition III.I.3 of the permit dated 1/24/2007)
2. Where there is a reasonable possibility a project may result in a significant emissions increase and the permittee elects to use the method specified in subdivisions a through c of the definition of "projected actual emissions" in 9 VAC 5-80-1615 for calculating projected actual emissions, the permittee shall comply with 9 VAC 5-80-1785 B, C and E.  
(9 VAC 5-80-110 and 9 VAC 5-80-1785)

## VII. 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:

<b>Emission Unit No.</b>	<b>Emission Unit Description</b>	<b>Citation</b>	<b>Pollutant(s) Emitted (9 VAC 5-80-720 B)</b>	<b>Rated Capacity (9 VAC 5-80-720 C)</b>
IA3	11,600-gallon lube oil storage tank (before 1970)	5-80-720 B.2	VOC < 5 tons/yr	NA
IA4	1,400-gallon lube oil storage tank (B Building Settling Tank)	5-80-720 B.2	VOC < 5 tons/yr	NA
IA5	2,000-gallon used oil storage tank	5-80-720 B.2	VOC < 5 tons/yr	NA
IA6	2,000-gallon NG condensate liquids storage tank	5-80-720 B.2 & B.5	VOC < 5 tons/yr & HAP = 1,000 lbs/yr	NA
IA7	800-gallon portable NG condensate liquids storage tank	5-80-720 B.2 & B.5	VOC < 5 tons/yr & HAP = 1,000 lbs/yr	NA
IA8	80-gallon hydraulic oil expansion tank (M/L 11)	5-80-720 C.3	NA	< 1000 gallons
IA9	458-gallon lube oil transfer tank (A Building Settling Tank)	5-80-720 C.3	NA	< 1000 gallons
IA10	242-gallon lube oil day tank (B Building)	5-80-720 C.3	NA	< 1000 gallons
IA11	564-gallon portable diesel storage tank	5-80-720 B.2	VOC < 5 tons/yr	NA
IA12	8,820-gallon waste water storage tank	5-80-720 B.2	VOC < 5 tons/yr	NA
IA13	9,000-gallon ethylene glycol/water surge vessel	5-80-720 B.2 & B.5	VOC < 5 tons/yr & HAP = 1,000 lbs/yr	NA
IA14	2,000-gallon ethylene glycol/water surge vessel	5-80-720 B.2 & B.5	VOC < 5 tons/yr & HAP = 1,000 lbs/yr	NA
IA15	4,297-gallon ethylene glycol/water transfer tank (outside B Building)	5-80-720 B.2 & B.5	VOC < 5 tons/yr & HAP = 1,000 lbs/yr	NA
IA16	2,750-gallon ethylene glycol/water storage tank (outside B Building)	5-80-720 B.2 & B.5	VOC < 5 tons/yr & HAP = 1,000 lbs/yr	NA
IA18	Parts washer	5-80-720 B.2	VOC < 5 tons/yr	NA
IA19	159-gallon ethylene glycol/water sump	5-80-720 B.2 & B.5	VOC < 5 tons/yr & HAP = 1,000 lbs/yr	NA
IA20	2,000-gallon ethylene glycol/water transfer tank (outside A Building)	5-80-720 B.2 & B.5	VOC < 5 tons/yr & HAP = 1,000 lbs/yr	NA
IA21	661-gallon methanol storage tank	5-80-720 B.2 & B.5	VOC < 5 tons/yr & HAP = 1,000 lbs/yr	NA
IA22	294-gallon jacket water (JW) surge tank (M/L 11)	5-80-720 B.2	VOC < 5 tons/yr	NA
IA23	533-gallon lube oil cooling water surge tank (M/L 11)	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.

### VIII. 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:

<b>Citation</b>	<b>Title of Citation</b>	<b>Description of Applicability</b>
40 CFR 63 Subpart HH	National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities	Compressor Station No. 165 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 No. 165 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 (OLD MACT)	National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)	Compressor Station No. 165 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	40 CFR 64.2(a); M/L 11 SRICE does not have add-on air pollution control devices as defined in 40 CFR 64.1. M/L 1-10, AUX 1-2, & A/C 1 do not have add-on air pollution control devices.
40 CFR 68	Chemical Accident Prevention Provision	Compressor Station 165 is regulated under 40 CFR 192, not a stationary source per 40 CFR 68.3.
CAA Section 112(r)	Risk Management Plans	Compressor Station 165 is regulated under 40 CFR 192, not a stationary source per 40 CFR 68.3.
40 CFR 60 Subpart JJJJ	New Source Performance Standards (NSPS) for Stationary Spark Ignited Internal Combustion Engines (SI ICE)	40 CFR 60.4230; SRICE manufactured prior to and have not been modified after 6/12/2006.

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)

## **IX. General Conditions**

### **A. 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)

### **B. 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.

1. 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.
2. 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.
3. 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.
4. 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.
5. 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)

### C. Recordkeeping and Reporting

1. 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.
  - f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)

2. 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)

3. 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.
- 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)

**D. 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. 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. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
5. 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.
6. Such other facts as the permit may require to determine the compliance status of the source.
7. One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)  
U.S. Environmental Protection Agency, Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

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

**E. Permit Deviation Reporting**

The permittee shall notify the Director, South Central 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 General Condition IX.C.3 of this permit.

(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

**F. 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, South Central 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. 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, South Central Regional Office.

(9 VAC 5-20-180 C and Condition III.I.2 of the permit dated 1/24/2007)

**G. 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)

**H. 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)

**I. 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)

**J. 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, 9 VAC 5-80-260, and Condition III.A.2 of the permit dated 1/24/2007)

**K. Property Rights**

The permit does not convey any property rights of any sort, or any exclusive privilege. (9 VAC 5-80-110 G.5)

**L. Duty to Submit Information**

1. 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)
2. 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)

**M. 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. 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. (9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

**N. 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:

1. 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;
2. 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;
3. 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;
4. 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,
5. 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)

**O. 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)

**P. 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)

**Q. Right of Entry**

The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:

1. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;

2. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;
3. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and
4. To sample or test at reasonable times.

For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.

(9 VAC 5-80-110 K.2 and Condition III.I.1 of the permit dated 1/24/2007)

#### **R. 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.

1. 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.
2. 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.
3. 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)

#### **S. 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)

#### **T. Transfer of Permits**

1. 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)
2. 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 and Condition III.I.6 of the permit dated 1/24/2007)
3. 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)

#### **U. Malfunction as an Affirmative Defense**

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.
2. 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.

3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
4. 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)

**V. 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)

**W. 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)

**X. 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)

**Y. 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)

**Z. 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)

**AA. 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)

**BB. 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:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
2. 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.
3. 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)