



Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

www.deq.virginia.gov

Stefanie K. Taillon
Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus
Director

DRAFT/PROPOSED

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 9VAC5-80-50 through 9VAC5-80-300 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: Colombia Gas Transmission, LLC
Facility Name: Gala Compressor Station
Facility Location: 15971 Botetourt Road, Eagle Rock, VA 24085
Registration Number: 20157
Permit Number: BRRO-20157

This permit includes the following programs:
Federally Enforceable Requirements - Clean Air Act

Effective Date

for Robert J. Weld, BRRO Regional Director

Expiration Date

Signature Date

Table of Contents, page 1
Permit Conditions, pages 4 through 22

Table of Contents

Facility Information.....	2
Emission Units.....	3
Engine Requirements (01203, 01204, 01205, 012G2).....	4
LIMITATIONS.....	4
RECORDKEEPING.....	5
TESTING.....	7
MACT Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (01203, 01204, 01205, 012G2) 	8
GENERAL COMPLIANCE REQUIREMENTS	8
EMISSION AND OPERATING LIMITATIONS	8
TESTING	9
CONTINUOUS COMPLIANCE REQUIREMENTS.....	9
NOTIFICATIONS, REPORTS, AND RECORDKEEPING	9
NSPS Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (012G2).....	10
GENERAL COMPLIANCE REQUIREMENTS	11
EMISSION STANDARDS	11
CONTINUOUS COMPLIANCE REQUIREMENTS.....	11
TESTING	11
RECORDKEEPING.....	12
REPORTING	12
Insignificant Emission Units	12
Permit Shield & Inapplicable Requirements	13
General Conditions	14

Facility Information

Permittee

Columbia Gas Transmission LLC
700 Louisiana Street, Suite 1300
Houston, TX 77002

Responsible Official

Brian Montgomery
Area Manager

Facility

Gala Compressor Station
15971 Botetourt Road
Eagle Rock, VA 24085

Contact Person

Melinda Holdsworth
Air Specialist
(832) 320-5665

County-Plant Identification Number: 51-023-00009

Facility Description: NAICS 486210 – Pipeline Transport of Natural Gas

Columbia Gas Transmission LLC (CGT) owns and operates the Gala Compressor Station, which is a natural gas pipeline compressor station located in Botetourt County, north of Eagle Rock, Virginia. Natural gas is received via gas pipelines from an upstream compressor station, compressed, and pumped into outlet pipes for transmission to a downstream station. The natural gas is compressed using two White-Superior 8GTLA 4-stroke lean burn reciprocating internal combustion engines (RICE) and one Superior 16SGTB 4-stroke lean burn RICE. Each of the three compressor engines utilize oxidation catalyst control devices, installed in November 2013, for carbon monoxide reduction. On-site auxiliary equipment includes one Waukesha VGF-H24GL four-stroke lean burn emergency generator. All fuel burning equipment is natural gas-fired.

The station has the potential to operate seven days per week, twenty-four hours per day and fifty-two weeks per year. The facility is a Title V Major source of CO and area source for HAPs; and is subsequently subject to MACT ZZZZ and NSPS JJJJ. The source is located in an attainment or area for pollutants and is not a PSD major source. Botetourt County is an emissions control area for NOx and VOC per 9VAC5-20-206, but there are no applicable requirements for this facility associated with being located within an emissions control area.

Emission Units

Process Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description*	PCD ID	Pollutant Controlled	Applicable Permit Date
01203	E03	White-Superior 8GTLA Reciprocating Engine/Compressor; spark ignition, 4 stroke, lean burn; installed 1983; engine rebuilt 2016	1,100 hp	Oxidation Catalyst	C03	CO	March 7, 2011
01204	E04	White-Superior 8GTLA Reciprocating Engine/Compressor; spark ignition, 4 stroke, lean burn; installed 1983	1,100 hp	Oxidation Catalyst	C04	CO	March 7, 2011
01205	E05	Superior 16SGTB Reciprocating Engine/Compressor; spark ignition, 4 stroke, lean burn; installed 1997	2,650 hp	Oxidation Catalyst	C05	CO	May 23, 2011
012G2	G2	Waukesha VGF-H24GL Reciprocating Engine/Emergency Generator; spark ignition, 4 stroke, lean burn; installed 2017	585 hp	-	-	-	-

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

Engine Requirements (01203, 01204, 01205, 012G2)

Limitations

1. **Engine Requirements (01203, 01204) – Emission Controls** - Nitrogen Oxide and Volatile Organic Compound emissions from each Engine/Compressor (01203, 01204) shall be controlled by low-emission combustion using Clean-Burn technology (lean ratio engines equipped with pre-combustion chambers and automatic controls for fuel/air mixture, ignition timing and intake manifold temperature). Each Engine/Compressor shall be provided with adequate access for inspection.
(9VAC5-80-110 and Condition 2 of the 3/7/2011 Permit Document)

2. **Engine Requirements (01203, 01204) - Fuel** - The approved fuel for the Engines/Compressors (01203, 01204) is natural gas. A change in the fuel may require a permit to modify and operate.
(9VAC5-80-110 and Condition 4 of the 3/7/2011 Permit Document)

3. **Engine Requirements (01203, 01204) – Process Emission Limits** - Emissions from the operation of each Engine/Compressor (01203, 01204) shall not exceed the limits specified below:

Nitrogen Oxides (as NO ₂)	4.4 lbs/hr	19.1 tons/yr
Carbon Monoxide	7.3 lbs/hr	31.8 tons/yr
Volatile Organic Compounds	3.7 lbs/hr	15.9 tons/yr

These emissions are derived from the estimated overall emission contribution from the Operating Limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions No. 12.

(9VAC5-80-110 and Condition 5 of the 3/7/2011 Permit Document)

4. **Engine Requirements (01203, 01204) – Visible Emission Limit** - Visible emissions from each Engine/Compressor (01203, 01204) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9VAC5-80-110 and Condition 6 of the 3/7/2011 Permit Document)

5. **Engine Requirements (01205) – Emission Controls** - Nitrogen oxide and volatile organic compound emissions from the Superior 16SGTB reciprocating engine shall be controlled by low-emissions combustion using Clean-Burn technology. The Superior 16SGTB reciprocating engine shall be provided with adequate access for inspection.
(9VAC5-80-110 and Condition 4 of the 5/23/2011 Permit Document)

6. **Engine Requirements (01205) - Fuel** - The approved fuel for the Superior 16SGTB reciprocating engine is natural gas. A change in the fuel may require a permit to construct and operate.
(9VAC5-80-110 and Condition 5 of 5/23/2011 Permit Document)
7. **Engine Requirements (01205) - Limitations** - The annual throughput of natural gas to the Superior 16SGTB reciprocating engine shall not exceed 212 MMscf/yr, calculated monthly as the sum of each consecutive 12 month period.
(9VAC5-80-110 and Condition 7 of the 5/23/2011 Permit Document)
8. **Engine Requirements (01205) – Process Emission Limits** - Emissions from the operation of the Superior 16SGTB reciprocating engine shall not exceed the limits specified below:
- | | | |
|---------------------------------------|-------------|--------------|
| PM | 0.8 lbs/hr | 3.1 tons/yr |
| PM10 | 0.8 lbs/hr | 3.1 tons/yr |
| Nitrogen Oxides (as NO ₂) | 10.1 lbs/hr | 38.4 tons/yr |
| Carbon Monoxide | 10.8 lbs/hr | 40.9 tons/yr |
| Volatile Organic Compounds | 4.0 lbs/hr | 15.4 tons/yr |
- (9VAC5-80-110 and Condition 10 of 5/23/2011 Permit Document)
9. **Engine Requirements (01205) – Visible Emission Limit** - Visible emissions from the Superior 16SGTB reciprocating engine shall not exceed 5 percent opacity except for one six-minute period in any one hour of not more than 10 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9VAC5-80-110 and Condition 11 of the 5/23/2011 Permit Document)
10. **Engine Requirements (012G2) – Visible Emission Limit** - Visible emissions from the Emergency Engine shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity.
(9VAC5-80-110 and 9VAC5-50-80)
11. **Engine Requirements (012G2) - Fuel** - The approved fuel for the Emergency Engine is natural gas. A change in the fuel may require a permit to modify and operate.
(9VAC5-80-110 C)

Recordkeeping

12. **Engine Requirements (01203, 01204) – On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance

with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

- a. Annual throughput of natural gas for each Engine/Compressor (01203, 01204), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- b. Scheduled and unscheduled maintenance and operator training.
- c. Results of all stack tests, visible emission evaluations and performance evaluations.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9VAC5-80-110, 9VAC5-50-50, and Condition 7 of the 3/7/2011 Permit Document)

13. **Engine Requirements (01203, 01204, 1205) - Maintenance/Operating Procedures** - At all times, including periods of start-up, shutdown and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance;
- b. Maintain an inventory of spare parts;
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum; and
- 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.

(9VAC5-80-110, Condition 11 of the 3/7/2011 Permit Document, and Conditions 17 and 18 of the 5/23/2011 Permit Document)

14. **Engine Requirements (01205) - Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of 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 yearly throughput of natural gas to the Superior 16SGTB reciprocating engine, calculated monthly as the sum of each consecutive 12 month period.

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

(9VAC5-80-110, 9VAC5-50-50, and Condition 13 of the 5/23/2011 Permit Document)

15. **Engine Requirements (012G2) - Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. These records shall include, but are not limited to:

- a. Annual throughput of natural gas for Emergency Engine (012G2), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

- b. Results of all stack tests, visible emission evaluations and performance evaluations.

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

(9VAC5-80-110 K)

Testing

16. **Engine Requirements (01203, 01204, 01205) – Emissions Testing** - The facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested and safe sampling platforms and access shall be provided. (9VAC5-80-110, Condition 3 of the 3/7/2011 Permit Document, and Condition 6 of the 5/23/2011 Permit Document)

17. **Engine Requirements (012G2) – Emissions Testing** – The Emergency Engine shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the DEQ, test ports shall be provided at the appropriate locations. (9VAC5-80-110 and [9VAC5-40-30 or 9VAC5-50-30])

18. **Engine Requirements (01203, 01204, 01205, 012G2) - 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.
(9VAC5-80-110)

MACT Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (01203, 01204, 01205, 012G2)

General Compliance Requirements

19. **MACT Subpart ZZZZ (01203, 01204, 01205, 012G2)** – The permittee shall comply with the applicable requirements of National Emission Standards for Hazardous Air Pollutants for Source Categories 40 CFR 63 Subpart ZZZZ.
(9VAC5-80-110 and 40 CFR 63.6585)
20. **MACT Subpart ZZZZ (01203, 01204, 01205, 012G2)** - The permittee shall be in compliance with the emission limitations, operating limitations and other requirements in Subpart ZZZZ that apply to the source at all times. At all times the permittee shall operate and maintain the affected source in a manner consistent with safety and good air pollution control practices for minimizing emissions. 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.
(9VAC5-80-110 and 40 CFR 63.6605)
21. **MACT Subpart ZZZZ (012G2)** - For the engine 012G2, the permittee shall comply with 40 CFR 63 Subpart ZZZZ by complying with the applicable requirements of 40 CFR 60 Subpart JJJJ.
(9VAC5-80-110 and 40 CFR 63.6590(c))
22. **MACT Subpart ZZZZ (01203, 01204, 01205)** - The permittee shall comply with the applicable general provisions in Table 8 to Subpart ZZZZ.
(9VAC5-80-110 and 40 CFR 63.6665)

Emission and Operating Limitations

23. **MACT Subpart ZZZZ (01203, 01204, 01205)** - The permittee shall comply with the requirements in Item 9 in Table 2d of 40 CFR 63 Subpart ZZZZ.
(9VAC5-80-110 and 40 CFR 63.6603(a))

24. **MACT Subpart ZZZZ (01203, 01204, 01205)** - 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.
(9VAC5-80-110 and 40 CFR 63.6625(h))

Testing

25. **MACT Subpart ZZZZ (01203, 01204, 01205)** - The permittee shall comply with the performance testing requirements in Item 1 of Table 4 to 40 CFR 63 Subpart ZZZZ. Results of the performance test must be submitted according to 40 CFR 63.6620(j).
(9VAC5-80-110 and 40 CFR 63.6620)

Continuous Compliance Requirements

26. **MACT Subpart ZZZZ (01203, 01204, 01205)** - Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, the permittee shall continuously monitor that the stationary RICE is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities may not be used in data averages and calculations used to report emission or operating levels.
(9VAC5-80-110 and 40 CFR 63.6635)
27. **MACT Subpart ZZZZ (01203, 01204, 01205)** - The permittee shall demonstrate continuous compliance with each emission limit, operation limit, and other applicable requirements in Table 2d to Subpart ZZZZ according to the methods specified in 40 CFR 63.6640, including the annual compliance demonstration required in 40 CFR 63.6640(c) and the requirements in Item 14 of Table 6 to Subpart ZZZZ.
(9VAC5-80-110 and 40 CFR 63.6640)

Notifications, Reports, and Recordkeeping

28. **MACT Subpart ZZZZ (01203, 01204, 01205)** - The permittee shall report each instance in which the source did not meet an applicable operating limitation in Table 2d to Subpart ZZZZ, and any applicable requirement included in Table 8 to Subpart ZZZZ. The permittee shall report all deviations in the semiannual monitoring reports as outlined in Condition 49.
(9VAC5-80-110, 40 CFR 63.6640(b) and (e), and 40 CFR 63.6650(f))
29. **MACT Subpart ZZZZ (01203, 01204, 01205)** - The permittee shall comply with the reporting requirements of 40 CFR 63.6645, 40 CFR 63.6650 and Item 3 of Table 7 to Subpart ZZZZ. Reports shall be submitted electronically in accordance with 40 CFR 63.6645(h) and 40 CFR 63.6650(i).
(9VAC5-80-110, 40 CFR 63.6645, and 40 CFR 63.6650)
30. **MACT Subpart ZZZZ (01203, 01204, 01205)** - The permittee shall keep the following records:

- a. A copy of each notification and report that the permittee submitted to comply with Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that the permittee submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv).
- b. Records of the occurrence and duration of each malfunction of operation (i.e. process equipment) or the air pollution control and monitoring equipment.
- c. Records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).
- d. Records of all required maintenance performed on the air pollution control and monitoring equipment.
- e. Records of all actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- f. Records required in Table 6 of 40 CFR 63 Subpart ZZZZ to show continuous compliance with each emission or operating limitation that applies to the permittee.
- g. Records of the maintenance conducted on the stationary RICE in order to demonstrate that the source operated and maintained the stationary RICE and after-treatment control device (if any) according to the permittee's maintenance plan.

(9VAC5-80-110 and 40 CFR 63.6655)

31. **MACT Subpart ZZZZ (01203, 01204, 01205)** - The permittee's records shall be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1).

- a. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- b. The permittee must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action report, or record, according to 40 CFR 63.10(b)(1).

(9VAC5-80-110 and 40 CFR 63.6660)

NSPS Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (012G2)

General Compliance Requirements

32. **NSPS Subpart JJJJ (012G2)** - The permittee shall comply with the applicable requirements of Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60 Subpart JJJJ. (9VAC5-80-110 and 40 CFR 60.4230)
33. **NSPS Subpart JJJJ (012G2)** - The permittee shall comply with the General Provisions (40 CFR 60.1 through 60.19) as applicable according to Table 3 to 40 CFR 60 Subpart JJJJ. (9VAC5-80-110 and 40 CFR 60.4246)

Emission Standards

34. **NSPS Subpart JJJJ (012G2)** - The permittee shall comply with the emission standards in Table 1 to 40 CFR 60 Subpart JJJJ. The permittee shall comply with the applicable emission standards over the entire life of the engine. (9VAC5-80-110, 40 CFR 60.4233(e) and (h), and 40 CFR 60.4234)

Continuous Compliance Requirements

35. **NSPS Subpart JJJJ (012G2)** - The permittee shall demonstrate compliance according to one of the methods specified in 40 CFR 60.4243(b) (1) and (2). (9VAC5-80-110 and 40 CFR 60.4243(b))
36. **NSPS Subpart JJJJ (012G2)** - The permittee shall operate the engine according to the requirements in 40 CFR 60.4243(d) (1) through (3). In order for the engine to be considered an emergency stationary ICE under 40 CFR 60 Subpart JJJJ, any operation other than as described in 40 CFR 60.4243(d) (1) through (d) (3), is prohibited. If the permittee does not operate the engine according to the requirements in 40 CFR 60.4243(d) (1), (2) or (3), the engine will not be considered an emergency engine under 40 CFR 60 Subpart JJJJ and shall meet all requirements for non-emergency engines. Emergency operation exceeding 500 hours per year per engine (including maintenance and readiness testing) or operation for non-emergency purposes may require a permit to modify and operate pursuant to 9VAC5-80 Article 6. (9VAC5-80-110 and 40 CFR 60.4243(d))
37. **NSPS Subpart JJJJ (012G2)** - The permittee may operate the engine using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations but shall keep records of such use. (9VAC5-80-110 and 40 CFR 60.4243(e))

Testing

38. **NSPS Subpart JJJJ (012G2)** - If propane is used in the engine(s) for more than 100 hours per year and the engine is not certified to the emission standards when using propane, the

permittee is required to conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233.
 (9VAC5-80-110 and 40 CFR 60.4243(e))

39. **NSPS Subpart JJJJ (012G2)** - If the permittee conducts performance tests on the engine(s), it shall follow the procedures in 40 CFR 60.4244(a) through (f).
 (9VAC5-80-110 and 40 CFR 60.4244)

Recordkeeping

40. **NSPS Subpart JJJJ (012G2)** - The permittee shall keep records of the information specified in 40 CFR 60.4245(a) (1) through (4).
 (9VAC5-80-110 and 40 CFR 60.4245(a))
41. **NSPS Subpart JJJJ (012G2)** - If the engine does not meet the standards applicable to non-emergency engines, the permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.
 (9VAC5-80-110 and 40 CFR 60.4245(b))

Reporting

42. **NSPS Subpart JJJJ (012G2)** - The permittee shall submit a copy of each performance test as conducted in 40 CFR 60.4244 within 60 days after the test has been completed. Performance test reports using EPA Method 18, EPA Method 320, or ASTM D6348-03 (incorporated by reference - see 40 CFR 60.17) to measure VOC require reporting of all QA/QC data. For Method 18, report results from sections 8.4 and 11.1.1.4; for Method 320, report results from sections 8.6.2, 9.0, and 13.0; and for ASTM D6348-03 report results of all QA/QC procedures in Annexes 1-7. Reports shall be submitted electronically in accordance with 40 CFR 60.4245(f).
 (9VAC5-80-110 and 40 CFR 60.4245(d))

Insignificant Emission Units

43. Insignificant Emission Units - The following emission units at the facility are identified in the application as insignificant emission units under 9VAC5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9VAC5-80-720B)	Rated Capacity (9VAC5-80-720C)
BLR3	Heating system boiler, natural gas fired	9VAC5-80-720C	-	0.85 MMBtu/hr
HTR1	Line heater number 1	9VAC5-80-720C	-	2.0 MMBtu/hr
A10	Used oil tank	9VAC5-80-720C	-	550 gal

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9VAC5-80-720B)	Rated Capacity (9VAC5-80-720C)
A11	Pipeline liquids tank	9VAC5-80-720B	VOC	-
A12	Used glycol tank	9VAC5-80-720B	VOC	-
A14	Glycol tank	9VAC5-80-720B	VOC	-
A15	Lube oil tank	9VAC5-80-720C	-	550 gal

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 9VAC5-80-110. (9VAC5-80-110)

Permit Shield & Inapplicable Requirements

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

Citation	Title of Citation	Description of Applicability
40 CFR 60 Subpart OOOO	Standards of Performance for Crude Oil and Natural Gas Facilities for Which Construction, Modification, or Reconstruction Commenced After August 23, 2011, and on or Before September 18, 2015	There are no affected facilities that commenced construction, modification, or reconstruction after August 23, 2011, and on or before September 18, 2015.
40 CFR 60 Subpart OOOOa	Standards of Performance for Crude Oil and Natural Gas Facilities for Which Construction, Modification, or Reconstruction Commenced After September 18, 2015, and on or Before December 6, 2022	There are no affected facilities that commenced construction, modification, or reconstruction after September 18, 2015, and on or before December 6, 2022.
40 CFR 60 Subpart OOOOb	Standards of Performance for Crude Oil and Natural Gas Facilities for Which Construction, Modification, or Reconstruction Commenced After December 6, 2022	There are no affected facilities that commenced construction, modification, or reconstruction after December 6, 2022.
40 CFR 64	Compliance Assurance Monitoring	This standard is not applicable to any emission units at the facility. Oxidation catalysts were installed to control CO in accordance with MACT Subpart ZZZZ. No emissions units utilize a control device to achieve compliance with VOC or NOx emission limits.

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 or (ii) the DEQ pursuant to §10.1-1307.3 or §10.1-1315 of the Virginia Air Pollution Control Law.
(9VAC5-80-110 and 9VAC5-80-140)

General Conditions

45. **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.
(9VAC5-80-110)
46. **General Conditions - Permit Expiration**
- a. 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 9VAC5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
 - b. 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.
 - c. If an applicant submits a timely and complete application for an initial permit or renewal under 9VAC5-80-80 F, 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 9VAC5 Chapter 80, until the DEQ takes final action on the application under 9VAC5-80-150.
 - d. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9VAC5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9VAC5 Chapter 80.
 - e. If an applicant submits a timely and complete application under section 9VAC5-80-80 for a permit renewal but the DEQ 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 9VAC5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.

- f. The protection under subsections F 1 and F 5 (ii) of section 9VAC5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9VAC5-80-80 D, the applicant fails to submit by the deadline specified in writing by the DEQ any additional information identified as being needed to process the application.

(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)

47. **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.

(9VAC5-80-110)

48. **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.

(9VAC5-80-110)

49. **General Conditions - Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to the DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9VAC5-80-80 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. Exceedances of emissions limitations or operational restrictions;

- ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring or 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 semiannual reporting period."

(9VAC5-80-110)

50. **General Conditions - Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to the Environmental Protection Agency (EPA) and the 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 9VAC5-80-80 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 9VAC5-80-110, 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 the EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov

(9VAC5-80-110)

51. **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 semiannual compliance monitoring report pursuant to Condition 49 of this permit.
(9VAC5-80-110 F. 2)
52. **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 no later than four daytime business hours after the malfunction is discovered, notify the Blue Ridge Regional Office of such failure or malfunction and within 14 days 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.
(9VAC5-80-110, 9VAC5-20-180, Condition 8 of the 3/7/2011 Permit Document, and Condition 16 of the 5/23/2011 Permit Document)
53. **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.
(9VAC5-80-110)
54. **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.
(9VAC5-80-110)
55. **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.

(9VAC5-80-110)

56. **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 9VAC5-80-50, 9VAC5-80-1100, 9VAC5-80-1605, or 9VAC5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9VAC80-110, 9VAC5-80-190, and 9VAC5-80-260)
57. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.
(9VAC5-80-110)
58. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the DEQ, within a reasonable time, any information that the DEQ 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 DEQ 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 DEQ along with a claim of confidentiality.
(9VAC5-80-110)
59. **General Conditions - Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the DEQ shall contain a certification by a responsible official that meets the requirements of 9VAC5-80-80 G.
(9VAC5-80-110)
60. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit was issued under 9VAC5-80-50 through 9VAC5-80-300 shall pay annual emissions fees, as applicable, consistent with the requirements of 9VAC5-80-310 through 9VAC5-80-350 and annual maintenance fees, as applicable, consistent with the requirements of 9VAC5-80-2310 through 9VAC5-80-2350.
(9VAC5-80-110, 9VAC5-80-310 et seq., and 9VAC5-80-2310 et seq.)
61. **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.

(9VAC5-80-110 and 9VAC5-50-90)

62. **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 DEQ, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
(9VAC5-80-110 and 9VAC5-50-20 E)

63. **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 9VAC5-80-140 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 9VAC5 Chapter 80, Article 1.
(9VAC5-80-110)

64. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow the 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.

(9VAC5-80-110)

65. **General Conditions - Reopening for Cause** - The permit shall be reopened by the DEQ 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 9VAC5-80-80 F. The conditions for reopening a permit are as follows:

- a. The permit shall be reopened if the DEQ 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 DEQ 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 DEQ if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9VAC5-80-110 D.

(9VAC5-80-110)

66. **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 the DEQ upon request.
(9VAC5-80-110 and 9VAC5-80-150)

67. **General Conditions - Permit Availability** - The permittee shall keep a copy of the 3/7/2011 Permit Document and the 5/23/2011 Permit Document on the premises of the facility.
(9VAC5-80-110, Condition 15 of the 3/7/2011 Permit Document, and Condition 22 of the 5/23/2011 Permit Document)
68. **General Conditions - Transfer of Permits**
- a. No person shall transfer a permit from one location to another, unless authorized under 9VAC5-80-130, or from one piece of equipment to another.
 - b. 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 DEQ of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9VAC5-80-200.
 - c. 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 DEQ of the change in source name within 30 days of the name change and shall comply with the requirements of 9VAC5-80-200.
- (9VAC5-80-110 and 9VAC5-80-160)
69. **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 9VAC5 Chapter 80 Article 1. The DEQ may suspend, under such conditions and for such period of time as the DEQ may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.
(9VAC5-80-110, 9VAC5-80-190 C, and 9VAC5-80-260)
70. **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.
(9VAC5-80-110 and 9VAC5-80-80 E)
71. **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.

(9VAC5-80-110 and 40 CFR Part 82)

72. **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). (9VAC5-60-70 and 9VAC5-80-110)
73. **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. (9VAC5-80-110 and 40 CFR Part 68)
74. **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. (9VAC5-80-110)
75. **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 9VAC5-80-110, except subsection N, shall be included to determine compliance.
 - b. The permit shield described in 9VAC5-80-140 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 9VAC5-80-50 through 9VAC5-80-300.

(9VAC5-80-110)