

West Virginia Department of Environmental Protection  
*Division of Air Quality*

*Joe Manchin III*  
Governor

*Stephanie R. Timmermeyer*  
Cabinet Secretary

# Permit to Operate



*Pursuant to*  
**Title V**  
of the Clean Air Act

*Issued to:*  
**Dominion Transmission, Inc.**  
**Wilsonburg Compressor Station**  
R30-03300011-2006

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*John A. Benedict*  
Director

*Issued: July 10, 2006 • Effective: July 24, 2006*  
*Expiration: July 10, 2011 • Renewal Application Due: January 10, 2011*

Permit Number: **R30-03300011-2006**  
Permittee: **Dominion Transmission, Inc**  
Facility Name: **Wilsonburg Compressor Station**  
Mailing Address: **445 West Main Street**  
**Clarksburg, WV 26301**

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*This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 — Requirements for Operating Permits. The permittee identified at the above-referenced facility is authorized to operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.*

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Facility Location:	Wilsonburg, Harrison County, West Virginia
Mailing Address:	500 Davisson Run Road, Clarksburg, WV 26301
Telephone Number:	(304) 627-3798
Type of Business Entity:	Corporation
Facility Description:	Natural gas transmission facility
SIC Codes:	4922
UTM Coordinates:	549.9 km Easting • 4348.7 km Northing • Zone 17

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

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*Issuance of this Title V Operating Permit does not supersede or invalidate any existing permits under 45CSR13, 14 or 19, although all applicable requirements from such permits governing the facility's operation and compliance have been incorporated into the Title V Operating Permit.*

## Table of Contents

<b><u>1.0</u></b>	<b><u>Emission Units and Active R13, R14, and R19 Permits.....</u></b>	<b><u>5</u></b>
1.1.	Emission Units.....	5
1.2.	Active R13, R14, and R19 Permits.....	5
<del>1.0</del>	<del>Emission Units.....</del>	<del>5</del>
<b>2.0</b>	<b>General Conditions.....</b>	<b>6</b>
2.1.	Definitions.....	6
2.2.	Acronyms.....	6
2.3.	Permit Expiration and Renewal.....	7
2.4.	Permit Actions.....	7
2.5.	Reopening for Cause.....	7
2.6.	Administrative Permit Amendments.....	8
2.7.	Minor Permit Modifications.....	8
2.8.	Significant Permit Modification.....	8
2.9.	Emissions Trading.....	8
2.10.	Off-Permit Changes.....	8
2.11.	Operational Flexibility.....	9
2.12.	Reasonably Anticipated Operating Scenarios.....	10
2.13.	Duty to Comply.....	10
2.14.	Inspection and Entry.....	10
2.15.	Schedule of Compliance.....	11
2.16.	Need to Halt or Reduce Activity not a Defense.....	11
2.17.	Emergency.....	11
2.18.	Federally-Enforceable Requirements.....	12
2.19.	Duty to Provide Information.....	12
2.20.	Duty to Supplement and Correct Information.....	12
2.21.	Permit Shield.....	12
2.22.	Credible Evidence.....	13
2.23.	Severability.....	13
2.24.	Property Rights.....	13
2.25.	Acid Deposition Control.....	13
<b>3.0</b>	<b>Facility-Wide Requirements.....</b>	<b>15</b>
3.1.	Limitations and Standards.....	15
3.2.	Monitoring Requirements.....	16
3.3.	Testing Requirements.....	16
3.4.	Recordkeeping Requirements.....	17
3.5.	Reporting Requirements.....	17
3.6.	Compliance Plan.....	19
3.7.	Permit Shield.....	19
3.8.	Emergency Operating Scenario.....	19
<b>4.0</b>	<b>Source-Specific Requirements [RBR01].....</b>	<b>21</b>
4.1.	Limitations and Standards.....	21
4.2.	Monitoring Requirements.....	21
4.3.	Testing Requirements.....	21

4.4.	Recordkeeping Requirements .....	21
4.5.	Reporting Requirements .....	21
4.6.	Compliance Plan .....	21
<b>5.0</b>	<b>Source-Specific Requirements [DEHY, DEHY01] .....</b>	<b>22</b>
5.1.	Limitations and Standards .....	22
5.2.	Monitoring Requirements .....	23
5.3.	Testing Requirements .....	24
5.4.	Recordkeeping Requirements .....	24
5.5.	Reporting Requirements .....	24
5.6.	Compliance Plan .....	24
<b>6.0</b>	<b><u>Source-Specific Requirements- [Emergency Generators] .....</u></b>	<b><u>25</u></b>
<u>6.1.</u>	<u>Limitations and Standards .....</u>	<u>25</u>
<u>6.2.</u>	<u>Monitoring Requirements .....</u>	<u>27</u>
<u>6.3.</u>	<u>Testing Requirements .....</u>	<u>27</u>
<u>6.4.</u>	<u>Recordkeeping Requirements .....</u>	<u>29</u>
<u>6.5.</u>	<u>Reporting Requirements .....</u>	<u>30</u>
<u>6.6.</u>	<u>Compliance Plan .....</u>	<u>30</u>

~~1.0 Emission Units~~

**1.0 [Emission Units and Active R13, R14, and R19 Permits](#)**

**1.1. [Emission Units](#)**

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
001-01*	EN01	Reciprocating Engine/Integral Compressor; Clark HMA-8	1974	350 HP	N/A
001-02*	EN02	Reciprocating Engine/Integral Compressor; Ajax DPC-360	1987	360 HP	N/A
001-03*	EN03	Reciprocating Engine/Integral Compressor; Ajax DPC-800	1983	800 HP	N/A
<a href="#">005-01</a>	<a href="#">EG01</a>	<a href="#">Emergency Generator</a>	<a href="#">2010</a>	<a href="#">192.5 HP</a>	<a href="#">N/A</a>
<a href="#">005-02</a>	<a href="#">EG02</a>	<a href="#">Emergency Generator</a>	<a href="#">2010</a>	<a href="#">192.5 HP</a>	<a href="#">N/A</a>
003-01*	DEHY01	Dehydration Unit Still	1984	13.5 mmscf/day	Flare
004-01*	RBR01	Dehydration Reboiler; Natco 5GR-750	1984	0.75 MMBtu/hr	N/A
DEHY*	DEHY	Dehydration unit flare; 95% destruction efficiency	1984	26.1 acf/min	N/A
TK01	TK01	Horizontal Ethylene Glycol Storage Tank	1972	2000 gallons	N/A
TK02	TK02	Horizontal Tri-ethylene Glycol Storage Tank	1983	1000 gallons	N/A
TK03	TK03	Horizontal Produced Fluids Tank	1971	5000 gallons	N/A
TK04	TK04	Horizontal Engine Oil Tank	1971	3000 gallons	N/A
TK05	TK05	Vertical Wastewater Tank	1971	500 gallons	N/A
TK06	TK06	Horizontal Used Ethylene Glycol Tank	1972	230 gallons	N/A
TK07	TK07	Horizontal Used Oil Tank	1972	3,000 gallons	N/A

\* This equipment burns or combusts pipeline quality natural gas only.

**1.2. [Active R13, R14, and R19 Permits](#)**

[The underlying authority for any conditions from R13, R14, and/or R19 permits contained in this operating permit is cited using the original permit number \(e.g. R13-1234\). The current applicable version of such permit\(s\) is listed below.](#)

<a href="#">Permit Number</a>	<a href="#">Date of Issuance</a>
<a href="#">R13-2856</a>	<a href="#">January 31, 2011</a>

## 2.0 General Conditions

### 2.1. Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

### 2.2. Acronyms

<b>CAAA</b>	Clean Air Act Amendments	<b>PM</b>	Particulate Matter
<b>CBI</b>	Confidential Business Information	<b>PM<sub>10</sub></b>	Particulate Matter less than 10µm in diameter
<b>CEM</b>	Continuous Emission Monitor	<b>pph</b>	Pounds per Hour
<b>CES</b>	Certified Emission Statement	<b>ppm</b>	Parts per Million
<b>C.F.R. or CFR</b>	Code of Federal Regulations	<b>PSD</b>	Prevention of Significant Deterioration
<b>CO</b>	Carbon Monoxide	<b>psi</b>	Pounds per Square Inch
<b>C.S.R. or CSR</b>	Codes of State Rules	<b>SIC</b>	Standard Industrial Classification
<b>DAQ</b>	Division of Air Quality	<b>SIP</b>	State Implementation Plan
<b>DEP</b>	Department of Environmental Protection	<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>FOIA</b>	Freedom of Information Act	<b>TAP</b>	Toxic Air Pollutant
<b>HAP</b>	Hazardous Air Pollutant	<b>TPY</b>	Tons per Year
<b>HON</b>	Hazardous Organic NESHAP	<b>TRS</b>	Total Reduced Sulfur
<b>HP</b>	Horsepower	<b>TSP</b>	Total Suspended Particulate
<b>lbs/hr or lb/hr</b>	Pounds per Hour	<b>USEPA</b>	United States Environmental Protection Agency
<b>LDAR</b>	Leak Detection and Repair	<b>UTM</b>	Universal Transverse Mercator
<b>M</b>	Thousand	<b>VEE</b>	Visual Emissions Evaluation
<b>MACT</b>	Maximum Achievable Control Technology	<b>VOC</b>	Volatile Organic Compounds
<b>MM</b>	Million		
<b>MMBtu/hr or mmbtu/hr</b>	Million British Thermal Units per Hour		
<b>MMCF/hr or mmcf/hr</b>	Million Cubic Feet Burned per Hour		
<b>NA</b>	Not Applicable		
<b>NAAQS</b>	National Ambient Air Quality Standards		
<b>NESHAPS</b>	National Emissions Standards for Hazardous Air Pollutants		
<b>NO<sub>x</sub></b>	Nitrogen Oxides		
<b>NSPS</b>	New Source Performance Standards		

### **2.3. Permit Expiration and Renewal**

- 2.3.1. Permit duration. This permit is issued for a fixed term of five (5) years and shall expire on the date specified on the cover of this permit, except as provided in 45CSR§30-6.3.b. and 45CSR§30-6.3.c.  
**[45CSR§30-5.1.b.]**
- 2.3.2. A permit renewal application is timely if it is submitted at least six (6) months prior to the date of permit expiration.  
**[45CSR§30-4.1.a.3.]**
- 2.3.3. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 45CSR§30-6.2. and 45CSR§30-4.1.a.3.  
**[45CSR§30-6.3.b.]**
- 2.3.4. If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time.  
**[45CSR§30-6.3.c.]**

### **2.4. Permit Actions**

- 2.4.1. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.  
**[45CSR§30-5.1.f.3.]**

### **2.5. Reopening for Cause**

- 2.5.1. This permit shall be reopened and revised under any of the following circumstances:
- a. Additional applicable requirements under the Clean Air Act or the Secretary's legislative rules become applicable to a major source with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 45CSR§§30-6.6.a.1.A. or B.
  - b. Additional requirements (including excess emissions requirements) become applicable to an affected source under Title IV of the Clean Air Act (Acid Deposition Control) or other legislative rules of the Secretary. Upon approval by U.S. EPA, excess emissions offset plans shall be incorporated into the permit.
  - c. The Secretary or U.S. EPA 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.
  - d. The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.

**[45CSR§30-6.6.a.]**

## **2.6. Administrative Permit Amendments**

- 2.6.1. The permittee may request an administrative permit amendment as defined in and according to the procedures specified in 45CSR§30-6.4.  
[45CSR§30-6.4.]

## **2.7. Minor Permit Modifications**

- 2.7.1. The permittee may request a minor permit modification as defined in and according to the procedures specified in 45CSR§30-6.5.a.  
[45CSR§30-6.5.a.]

## **2.8. Significant Permit Modification**

- 2.8.1. The permittee may request a significant permit modification, in accordance with 45CSR§30-6.5.b., for permit modifications that do not qualify for minor permit modifications or as administrative amendments.  
[45CSR§30-6.5.b.]

## **2.9. Emissions Trading**

- 2.9.1. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit and that are in accordance with all applicable requirements.  
[45CSR§30-5.1.h.]

## **2.10. Off-Permit Changes**

- 2.10.1. Except as provided below, a facility may make any change in its operations or emissions that is not addressed nor prohibited in its permit and which is not considered to be construction nor modification under any rule promulgated by the Secretary without obtaining an amendment or modification of its permit. Such changes shall be subject to the following requirements and restrictions:
- a. The change must meet all applicable requirements and may not violate any existing permit term or condition.
  - b. The permittee must provide a written notice of the change to the Secretary and to U.S. EPA within two (2) business days following the date of the change. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
  - c. The change shall not qualify for the permit shield.
  - d. The permittee shall keep records describing all changes made at the source that result in emissions of regulated air pollutants, but not otherwise regulated under the permit, and the emissions resulting from those changes.
  - e. No permittee may make any change subject to any requirement under Title IV of the Clean Air Act (Acid Deposition Control) pursuant to the provisions of 45CSR§30-5.9.

- f. No permittee may make any changes which would require preconstruction review under any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) pursuant to the provisions of 45CSR§30-5.9.

**[45CSR§30-5.9.]**

## **2.11. Operational Flexibility**

- 2.11.1. The permittee may make changes within the facility as provided by § 502(b)(10) of the Clean Air Act. Such operational flexibility shall be provided in the permit in conformance with the permit application and applicable requirements. No such changes shall be a modification under any rule or any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) promulgated by the Secretary in accordance with Title I of the Clean Air Act and the change shall not result in a level of emissions exceeding the emissions allowable under the permit.

**[45CSR§30-5.8]**

- 2.11.2. Before making a change under 45CSR§30-5.8., the permittee shall provide advance written notice to the Secretary and to U.S. EPA, describing the change to be made, the date on which the change will occur, any changes in emissions, and any permit terms and conditions that are affected. The permittee shall thereafter maintain a copy of the notice with the permit, and the Secretary shall place a copy with the permit in the public file. The written notice shall be provided to the Secretary and U.S. EPA at least seven (7) days prior to the date that the change is to be made, except that this period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard. If less than seven (7) days notice is provided because of a need to respond more quickly to such unanticipated conditions, the permittee shall provide notice to the Secretary and U.S. EPA as soon as possible after learning of the need to make the change.

**[45CSR§30-5.8.a.]**

- 2.11.3. The permit shield shall not apply to changes made under 45CSR§30-5.8., except those provided for in 45CSR§30-5.8.d. However, the protection of the permit shield will continue to apply to operations and emissions that are not affected by the change, provided that the permittee complies with the terms and conditions of the permit applicable to such operations and emissions. The permit shield may be reinstated for emissions and operations affected by the change:

- a. If subsequent changes cause the facility's operations and emissions to revert to those authorized in the permit and the permittee resumes compliance with the terms and conditions of the permit, or
- b. If the permittee obtains final approval of a significant modification to the permit to incorporate the change in the permit.

**[45CSR§30-5.8.c.]**

- 2.11.4. "Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

**[45CSR§30-2.39]**

## **2.12. Reasonably Anticipated Operating Scenarios**

- 2.12.1. The following are terms and conditions for reasonably anticipated operating scenarios identified in this permit.
- a. Contemporaneously with making a change from one operating scenario to another, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating and to document the change in reports submitted pursuant to the terms of this permit and 45CSR30.
  - b. The permit shield shall extend to all terms and conditions under each such operating scenario; and
  - c. The terms and conditions of each such alternative scenario shall meet all applicable requirements and the requirements of 45CSR30.

**[45CSR§30-5.1.i.]**

## **2.13. Duty to Comply**

- 2.13.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

**[45CSR§30-5.1.f.1.]**

## **2.14. Inspection and Entry**

- 2.14.1. The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:
- a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
  - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - c. Inspect at reasonable times (including all times in which the facility is in operation) 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 to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

**[45CSR§30-5.3.b.]**

## **2.15. Schedule of Compliance**

- 2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:
- a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
  - b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.

**[45CSR§30-5.3.d.]**

## **2.16. Need to Halt or Reduce Activity not a Defense**

- 2.16.1. 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. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

**[45CSR§30-5.1.f.2.]**

## **2.17. Emergency**

- 2.17.1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

**[45CSR§30-5.7.a.]**

- 2.17.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of 45CSR§30-5.7.c. are met.

**[45CSR§30-5.7.b.]**

- 2.17.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The permitted facility was at the time being properly operated;
- c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

- d. Subject to the requirements of 45CSR§30-5.1.c.3.C.1, the permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice, report, and variance request fulfills the requirement of 45CSR§30-5.1.c.3.B. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

**[45CSR§30-5.7.c.]**

- 2.17.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

**[45CSR§30-5.7.d.]**

- 2.17.5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.

**[45CSR§30-5.7.e.]**

## **2.18. Federally-Enforceable Requirements**

- 2.18.1. All terms and conditions in this permit, including any provisions designed to limit a source's potential to emit and excepting those provisions that are specifically designated in the permit as "State-enforceable only", are enforceable by the Secretary, USEPA, and citizens under the Clean Air Act.

**[45CSR§30-5.2.a.]**

- 2.18.2. Those provisions specifically designated in the permit as "State-enforceable only" shall become "Federally-enforceable" requirements upon SIP approval by the USEPA.

## **2.19. Duty to Provide Information**

- 2.19.1. The permittee shall furnish to the Secretary within a reasonable time any information the Secretary 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 Secretary copies of records required to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

**[45CSR§30-5.1.f.5.]**

## **2.20. Duty to Supplement and Correct Information**

- 2.20.1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

**[45CSR§30-4.2.]**

## **2.21. Permit Shield**

- 2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and

are specifically identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof.

**[45CSR§30-5.6.a.]**

2.21.2. Nothing in this permit shall alter or affect the following:

- a. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; or
- b. The applicable requirements of the Code of West Virginia and Title IV of the Clean Air Act (Acid Deposition Control), consistent with § 408 (a) of the Clean Air Act.
- c. The authority of the Administrator of U.S. EPA to require information under § 114 of the Clean Air Act or to issue emergency orders under § 303 of the Clean Air Act.

**[45CSR§30-5.6.c.]**

## **2.22. Credible Evidence**

2.22.1. Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee including but not limited to any challenge to the credible evidence rule in the context of any future proceeding.

**[45CSR§30-5.3.e.3.B. and 45CSR38]**

## **2.23. Severability**

2.23.1. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid by a court of competent jurisdiction, the remaining permit terms and conditions or their application to other circumstances shall remain in full force and effect.

**[45CSR§30-5.1.e.]**

## **2.24. Property Rights**

2.24.1. This permit does not convey any property rights of any sort or any exclusive privilege.

**[45CSR§30-5.1.f.4]**

## **2.25. Acid Deposition Control**

2.25.1. Emissions shall not exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act (Acid Deposition Control) or rules of the Secretary promulgated thereunder.

- a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.

- b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.
- c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.

**[45CSR§30-5.1.d.]**

- 2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA.

**[45CSR§30-5.1.a.2.]**

### 3.0 Facility-Wide Requirements

#### 3.1 Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.  
[45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.  
[45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). A copy of this notice is required to be sent to the USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health.  
[40 C.F.R. 61 and 45CSR15]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.  
[45CSR§4-3.1 State-Enforceable only.]
- 3.1.5. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11.  
[45CSR§11-5.2]
- 3.1.6. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality.  
[W.Va. Code § 22-5-4(a)(14)]
- 3.1.7. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.

- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.

**[40 C.F.R. 82, Subpart F]**

- 3.1.8. **Risk Management Plan.** Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71.

**[40 C.F.R. 68]**

- 3.1.9. No person shall cause, suffer, allow or permit fugitive particulate matter to be discharged beyond the boundary lines of the property on which the discharge originates or at any public or residential location, which causes or contributes to statutory air pollution.

**[45CSR§17-3.1; State Enforceable Only]**

### **3.2. Monitoring Requirements**

N/A

### **3.3. Testing Requirements**

- 3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.
- b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit.
- c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include

the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

[WV Code § 22-5-4(a)(15) and 45CSR13]

### 3.4. Recordkeeping Requirements

- 3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:
- a. The date, place as defined in this 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 the analyses; and
  - f. The operating conditions existing at the time of sampling or measurement.

[45CSR§30-5.1.c.2.A., [45CSR13 - Permit No. R13-2856 §4.4.1.](#)]

- 3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. 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. Where appropriate, records may be maintained in computerized form in lieu of the above records.

[45CSR§30-5.1.c.2.B.]

- 3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.

[45CSR§30-5.1.c. State-Enforceable only.]

### 3.5. Reporting Requirements

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

[45CSR§§30-4.4. and 5.1.c.3.D.]

- 3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.

[45CSR§30-5.1.c.3.E.]

- 3.5.3. All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, mailed first class or by private carrier with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

**If to the DAQ:**

Director  
WVDEP  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
  
Phone: 304/926-0475  
FAX: 304/926-0478

**If to the US EPA:**

Associate Director  
Office of Enforcement and Permits Review  
(3AP12)  
U. S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

- 3.5.4. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality.  
**[45CSR§30-8.]**
- 3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification.  
**[45CSR§30-5.3.e.]**
- 3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4.  
**[45CSR§30-5.1.c.3.A.]**
- 3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.
- 3.5.8. **Deviations.**
- a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:
    1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the

probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.

2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.
3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

**[45CSR§30-5.1.c.3.C.]**

- b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary.

**[45CSR§30-5.1.c.3.B.]**

- 3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.

**[45CSR§30-4.3.h.1.B.]**

**3.6. Compliance Plan**

N/A

**3.7. Permit Shield**

- 3.7.1. The permittee is hereby granted a permit shield in accordance with 45CSR§30-5.6. The permit shield applies provided the permittee operates in accordance with the information contained within this permit.

- 3.7.2. The following requirements specifically identified are not applicable to the source based on the determinations set forth below. The permit shield shall apply to the following requirements provided the conditions of the determinations are met.

N/A

**3.8. Emergency Operating Scenario**

For emergency situations which interrupt the critical supply of natural gas to the public, and which pose a life threatening circumstance to the customer, the permittee is allowed to temporarily replace failed engine(s) as long as all of the following conditions are met:

- a. The replacement engine(s) is only allowed to operate until repair of the failed engine(s) is complete, but under no circumstance may the replacement engine(s) operate in excess of sixty (60) days;
- b. Both the replacement engine(s) and the repaired failed engine(s) shall not operate at the same time with the

- exception of any necessary testing of the repaired engine(s) and this testing may not exceed five (5) hours;
- c. Potential hourly emissions from the replacement engine(s) are less than or equal to the potential hourly emissions from the engine(s) being replaced;
  - d. Credible performance emission test data verifying the emission rates associated with the operation of the substitute engine shall be submitted to the Director within five (5) days;
  - e. The permittee must provide written notification to the Director within five (5) days of the replacement. This notification must contain:
    - i. Information to support the claim of life threatening circumstances to justify applicability of this emergency provision;
    - ii. Identification of the engine(s) being temporarily replaced;
    - iii. The design parameters of the replacement engine(s) including, but not limited to, the design horsepower and emission factors;
    - iv. Projected duration of the replacement engine(s); and
    - v. The appropriate certification by a responsible official.

**[45CSR§30-12.7]**

## **4.0 Source-Specific Requirements [RBR01]**

### **4.1. Limitations and Standards**

- 4.1.1. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average.  
[45CSR§2-3.1]

### **4.2. Monitoring Requirements**

N/A

### **4.3. Testing Requirements**

N/A

### **4.4. Recordkeeping Requirements**

N/A

### **4.5. Reporting Requirements**

N/A

### **4.6. Compliance Plan**

N/A

## 5.0 Source-Specific Requirements [DEHY, DEHY01]

### 5.1 Limitations and Standards

- 5.1.1. No person shall cause, suffer, allow or permit particulate matter to be discharged from any incinerator into the open air in excess of the quantity determined by use of the following formula:

Emissions (lb/hr) = F x Incinerator Capacity (tons/hr)

Where, the factor, F, is as indicated in Table I below:

Table I: Factor, F, for Determining Maximum Allowable Particulate Emissions

Incinerator Capacity: Factor F

A. Less than 15,000 lbs/hr 5.43

B. 15,000 lbs/hr or greater 2.72

*Calculation for PM Emissions:*

$(5.43) \times (26.1 \text{ cf/min}) \times (60 \text{ min/hr}) \times (0.05032 \text{ lb/cf}) \times (\text{ton}/2000 \text{ lb})$

$= 0.21395 \text{ lb/hr}$

**[45CSR§6-4.1][DEHY]**

- 5.1.2. Emission of Visible Particulate Matter --No person shall cause, suffer, allow or permit emission of smoke into the atmosphere from any incinerator which is twenty (20%) percent opacity or greater.

**[45CSR§6-4.3][DEHY]**

- 5.1.3. No person shall cause, suffer, allow or permit the emission of particles of unburned or partially burned refuse or ash from any incinerator which are large enough to be individually distinguished in the open air.

**[45CSR§6-4.5][DEHY]**

- 5.1.4. Incinerators, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors.

**[45CSR§6-4.6][DEHY]**

- 5.1.5. The permittee has defined the facility as a minor source of HAPs for existing source MACT applicability purposes. As a result, the subject facility shall conduct monitoring, testing, and reporting as specified below in order to provide adequate justification for maintaining minor source status. This requirement shall in no way restrict the permittee from conducting more frequent testing to quantify emissions increases.

**[40CFR§63.10(b)(3); (Subpart HH)] [DEHY]**

- 5.1.6. No person shall cause, suffer, allow or permit the emission into the open air from any source operation an in-stack sulfur dioxide concentration exceeding 2,000 parts per million by volume from existing source operations, except as provided in 45CSR§10-4.1.a through 45CSR§10-4.1.e.

**[45CSR§10-4.1] [DEHY01, DEHY]**

- 5.1.7. No person shall cause, suffer, allow or permit the combustion of any refinery process gas stream or any other process gas stream that contains hydrogen sulfide in a concentration greater than 50 grains per 100 cubic feet of gas except in the case of a person operating in compliance with an emission control and mitigation plan approved by the Director and U. S. EPA. In certain cases very small units may be considered exempt from this requirement if, in the opinion of the Director, compliance would be economically unreasonable and if the contribution of the unit to the surrounding air quality could be considered negligible.

**[45CSR§10-5.1] [DEHY01, DEHY]**

## 5.2. Monitoring Requirements

5.2.1. In order to demonstrate compliance with the minor source status claimed within 5.1.5 the permittee shall use GRI-GLYCalc V3 or higher to estimate emissions from the dehydration system. The dehydration system must be accurately defined by actual operating parameters. The WV Division of Air Quality recommends the following actual operating parameters be measured to correspond with the testing and monitoring requirements of 5.3.1 when using the Gas Analysis and Process Data, GLYCalc emission modeling method:

- Natural Gas Flowrate: annual, per day, and maximum design capacity (MMscf/time)
- Dry Gas water content at a point directly after exiting the dehydration column and before any additional separation points
- Absorber temperature and pressure
- Lean glycol circulation rate
- Lean glycol water content
- Glycol pump type
- Flash tank temperature and pressure
- Stripping Gas flow rate, if applicable
- Wet gas composition (upstream of the absorber – dehydration column) Sampled in accordance with GPA method 2166 and analyzed consistent with GPA extended method 2286 as well as the procedures presented in the GRI-GLYCalc Technical Reference User Manual and Handbook V4.

As an alternative to the “Gas Analysis and Process Data”, emission estimating method discussed above, the permittee may elect to incorporate the following alternative calculation methods as provided by GLYCalc V4: [Gas Analysis and ARL Method (R/L+Gas)] or the [GRI ARL Method (for TEG units only)]

These alternative methods can be used to demonstrate compliance with 5.1.5, provided emissions are determined using the procedures documented in the Gas Research Institute (GRI) report entitled “Atmospheric Rich/Lean Method for Determining Glycol Dehydrator Emissions” (GRI-95/0368.1). Additionally, the alternative methods shall also adhere to the recommendations for sampling and analysis of the wet glycol stream as presented in the GLYCalc Technical Reference User Manual and Handbook V4 when applicable.

**[45CSR§30-5.1.c]**

5.2.2. Visual emission checks of each emission point specified shall be conducted monthly. If during these checks or at any other time visible emissions are observed at any emission point, compliance shall be determined by conducting tests in accordance with Method 9 of 40 C.F.R. 60, Appendix A. Records shall be maintained on site or at a reasonably available location stating the date and time of each visible emission check and whether visible emissions were observed. Visible emission checks shall not be required during start-ups, shut-downs and malfunctions.

**[45CSR§30-5.1.c] [DEHY]**

5.2.3. At a minimum of once per year, sample and analyze the inlet gas stream to the station utilizing gas chromatography for the presence of Sulfur. Proof of compliance with the 2000 ppm<sub>v</sub> limit will be considered demonstrated if the gas chromatograph shows a total sulfur content of 2.3672 grains/100ft<sup>3</sup> or less. Records shall be maintained on site or at a reasonable available location for a period of no less than five (5) years stating the date and time of analysis and the sulfur content of the gas sampled.

**[45CSR§30-5.1.c] [DEHY, DEHY01]**

5.2.4. At a minimum of once per year, sample and analyze the inlet gas stream to the station utilizing gas chromatography for the presence of H<sub>2</sub>S. Proof of compliance with the 50 grains/100ft<sup>3</sup> limit will be considered demonstrated if the gas chromatograph shows a total H<sub>2</sub>S content of 0.216 grains/100ft<sup>3</sup> or less. Records shall be maintained on site or at a reasonably available location stating the date of analysis and the hydrogen sulfide content of the gas sampled.

**[45CSR§30-5.1.c] [DEHY, DEHY01]**

### **5.3. Testing Requirements**

- 5.3.1. Within 180 days of permit issuance or startup, whichever comes later and once within the last 2 years of this permit term, prior to submitting the permit renewal application, the permittee shall determine the composition of the wet natural gas by sampling in accordance with GPA Method 2166 and analyzing according to extended GPA Method 2286 analysis as specified in the GRI-GLYCalc V4 Technical Reference User Manual and Handbook. As specified in the handbook, the permittee shall sample the wet gas stream at a location prior to the glycol dehydration contactor column, but after any type of separation device, in accordance with GPA method 2166. The permittee may utilize other equivalent methods provided they are approved in advance by DAQ as part of a testing protocol. If alternative methods are proposed, a test protocol shall be submitted for approval no later than 60 days before the scheduled test date.

[45CSR§30-5.1.c]

### **5.4. Recordkeeping Requirements**

- 5.4.1. For the purpose of demonstrating compliance with 5.1.2 & 5.2.2, the permittee shall maintain records of all monitoring data documenting the date and time of each visible emission check, the emission point or equipment/source identification number, the name or means of identification of the observer, and the results of the check(s). The permittee shall also record the general weather conditions (i.e. sunny, approximately 80°F, 6-10 mph NE wind) during the visual emission check(s). Should a visible emission observation be required to be performed per the requirements specified in Method 9, the data records of each observation shall be maintained per the requirements of Method 9. For an emission unit out of service during the normal monthly evaluation, the record of observation may note “out of service” (O/S) or equivalent.

[45CSR§30-5.1.c]

### **5.5. Reporting Requirements**

- 5.5.1. Any violation(s) of the allowable visible emission requirement for any emission source discovered during observations using 40CFR Part 60, Appendix A, Method 9 must be reported in writing to the Director of the Division of Air Quality as soon as practicable, but within ten (10) calendar days, of the occurrence and shall include, at a minimum, the following information: the results of the visible determination of opacity of emissions, the cause or suspected cause of the violation(s), and any corrective measures taken or planned.

[45CSR§30-5.1.c]

- 5.5.2. The permittee shall submit a report of the sampling required by 5.3.1 to DAQ enforcement within 90 days of conducting said sampling. The permittee shall also supply a copy of the most recent report within the facility’s subsequent Title V renewal application. This report shall include a potential to emit (PTE) estimate modeled using GLYCalc V3 or higher software, which incorporates site specific parameters measured in accordance with 5.2.1. The emission estimate shall also incorporate a copy of the lab analysis obtained from the wet gas as well as a description of how and where the sample was taken. The report shall include a reference to all sampling and analytical methods utilized and identification of where the compressor station is located before or after the liquids extraction plant.

[45CSR§30-5.1.c]

### **5.6. Compliance Plan**

N/A

**6.0 Source-Specific Requirements- Emergency Generators [EG01, EG02]**

**6.1. Limitations and Standards**

- 6.1.1. Minor Source of Hazardous Air Pollutants (HAP). HAP emissions from the affected facility shall be less than 10 ton/yr of any single HAP and 25 ton/yr of any combination of HAPs. Compliance with this Section shall ensure that the affected facility is a minor HAP source. [45CSR13 - Permit No. R13-2856 §4.1.1.]
- 6.1.2. For the two (2) emergency generators (Emission Unit IDs 005-01 and 005-02) with stationary spark ignition (SI) internal combustion engines (ICE) manufactured after January 1, 2009, each having maximum engine power greater than 19 KW (25 HP), the permittee shall comply with all applicable provisions of 40 CFR 60, Subpart JJJJ. [45CSR13 - Permit No. R13-2856 §4.1.2., 45CSR16, 40 CFR§60.4230(a)(3)(iv)]
- 6.1.3. For the two (2) emergency generators (Emission Unit ID's 005-01 and 005-02) with maximum engine power greater than or equal to 100 HP, the permittee must comply with the emission standards in 40 CFR 60, Subpart JJJJ, Table 1.

<u>Table 1 to Subpart JJJJ of Part 60: NO<sub>x</sub>, CO, and VOC Emission Standards for Stationary Emergency Engines &gt; 25 HP.</u>					
<u>Engine Type and Fuel</u>	<u>Maximum Engine Power</u>	<u>Manufacturer Date</u>	<u>Emission Standards (g/HP-hr)</u>		
			<u>NO<sub>x</sub></u>	<u>CO</u>	<u>VOC*</u>
<u>Emergency</u>	<u>HP &gt;130</u>	<u>1/1/2009</u>	<u>2.0</u>	<u>4.0</u>	<u>1.0</u>
* <u>For purposes of this subpart [i.e. 40 CFR 60 Subpart JJJJ], when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.</u>					

[45CSR13 - Permit No. R13-2856 §4.1.3., 45CSR16, 40 CFR§60.4231(e)]

- 6.1.4. The permittee must operate and maintain the two (2) stationary SI ICE that achieve the emission standards as required in §60.4233 over the entire life of the engine. [45CSR13 - Permit No. R13-2856 §4.1.4., 45CSR16, 40 CFR§60.4234]
- 6.1.5. For emergency stationary SI ICE with a maximum engine power of greater than 19 KW (25 HP), the permittee may not install engines that do not meet the applicable requirements in §60.4233 after January 1, 2011. [45CSR13 - Permit No. R13-2856 §4.1.5., 45CSR16, 40 CFR§60.4236(c)]
- 6.1.6. For a stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP), the permittee must comply with the emission standards specified in §60.4233(e) by demonstrating compliance according to one of the methods specified below:
  - a. Purchasing an engine certified according to procedures specified in this subpart (40CFR60 Subpart JJJJ), for the same model year and demonstrating compliance according to one of the two methods specified below:

1. If you operate and maintain the certified stationary SI ICE and control device according to the manufacturer’s emission-related written instructions, you must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if you are an owner or operator.

[40 CFR §60.4243(a)(1)]

2. If you do not operate and maintain the certified stationary SI ICE and control device according to the manufacture’s emission-related written instructions, your engine will be considered a non-certified engine, and you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test within 1 year of engine startup to demonstrate compliance.

[40 CFR §60.4243(a)(2)(ii)]

- b. Purchasing a non-certified engine and demonstrating compliance with the emission standards according to the requirements specified in §60.4244, as applicable, and by keeping a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

[40 CFR §60.4243(b)(2)(ii)]

[45CSR13 - Permit No. R13-2856 §4.1.6., 45CSR16, 40 CFR §§60.4243(b)(1) &(b)(2)]

- 6.1.7. Emissions from the two (2) emergency generators (Emission Point ID’s EG01 & EG02) shall not exceed the hourly and annual limitations given below in permit Table 2:

<u>Permit Table 2: Emissions from Dominion’s Two (2) Emergency, NG-fired Engines.</u>				
<u>Pollutant</u>		<u>Maximum Emissions (Uncontrolled)</u>		
		<u>Hourly (lb/hr)</u>		<u>Annual <sup>(4)</sup> (ton/yr)</u>
		<u>One Engine Operation</u>	<u>Two Engine Operation <sup>(3)</sup></u>	
<u>Criteria Pollutants</u>	<u>Nitrogen Oxides (NOx)</u>	<u>0.03 <sup>(1)</sup></u>	<u>0.06</u>	<u>0.02</u>
	<u>Carbon Monoxide (CO)</u>	<u>0.39 <sup>(1)</sup></u>	<u>0.78</u>	<u>0.20</u>
	<u>Volatile Organic Compounds (VOC)</u>	<u>0.19 <sup>(1)</sup></u>	<u>0.38</u>	<u>0.10</u>
<u>HAP</u>	<u>Formaldehyde</u>	<u>0.03 <sup>(2)</sup></u>	<u>0.06</u>	<u>0.02</u>
<u>(1) Estimated using Manufacturer’s Information.</u> <u>(2) Estimated using AP-42 factors.</u> <u>(3) Two Engine Operation (lb/hr) = One Engine Operation (lb/hr) x 2</u> <u>(4) Based on operating each generator 500 hr/yr.</u>				

[45CSR13 - Permit No. R13-2856 §4.1.7.]

- 6.1.8. Each of the two (2) emergency generator engines (Emission Unit ID's 005-01 and 005-02) shall not be operated more than 500 hr/yr. [45CSR13 - Permit No. R13-2856 §4.1.8.]

## **6.2. Monitoring Requirements**

- 6.2.1. [Reserved]

## **6.3. Testing Requirements**

- 6.3.1. Owners and operators of stationary SI ICE who conduct performance tests must follow the procedures in paragraphs (a) through (g) of this section.
- a. Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in §60.8 and under the specific conditions that are specified by Table 2 to this subpart. [40 CFR§60.4244(a)]
- b. You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §60.8(c). If your stationary SI internal combustion engine is non-operational, you do not need to startup the engine solely to conduct a performance test; however, you must conduct the performance test immediately upon startup of the engine. [40 CFR§60.4244(b)]
- c. You must conduct three separate test runs for each performance test required in this section, as specified in §60.8(f). Each test run must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour. [40 CFR§60.4244(c)]
- d. To determine compliance with the NO<sub>x</sub> mass per unit output emission limitation, convert the concentration of NO<sub>x</sub> in the engine exhaust using Equation 1 of this section:

$$ER = \frac{C_d \times 1.912 \times 10^{-3} \times Q \times T}{HP - hr} \quad (\text{Eq. 1})$$

Where:

- ER ≡ Emission rate of NO<sub>x</sub> in g/HP-hr.
- C<sub>d</sub> ≡ Measured NO<sub>x</sub> concentration in parts per million by volume (ppmv).
- 1.912 x 10<sup>-3</sup> ≡ Conversion constant for ppm NO<sub>x</sub> to grams per standard cubic meter at 20 degrees Celsius.
- Q ≡ Stack gas volumetric flow rate, in standard cubic meter per hour, dry basis.
- T ≡ Time of test run, in hours.
- HP - hr ≡ Break work of the engine, horsepower-hour (HP-hr).

- e. To determine compliance with the CO mass per unit output emission limitation, convert the concentration of CO in the engine exhaust using Equation 2 of this section:

$$ER = \frac{C_d \times 1.164 \times 10^{-3} \times Q \times T}{HP - hr} \quad (\text{Eq. 2})$$

Where:

<u>ER</u>	≡	<u>Emission rate of CO in g/HP-hr.</u>
<u>C<sub>d</sub></u>	≡	<u>Measured CO concentration in parts per million by volume (ppmv).</u>
<u>1.164 x 10<sup>-3</sup></u>	≡	<u>Conversion constant for ppm CO to grams per standard cubic meter at 20 degrees Celsius.</u>
<u>Q</u>	≡	<u>Stack gas volumetric flow rate, in standard cubic meter per hour, dry basis.</u>
<u>T</u>	≡	<u>Time of test run, in hours.</u>
<u>HP - hr</u>	≡	<u>Break work of the engine, horsepower-hour (HP-hr).</u>

- f. For purposes of this subpart, when calculating emissions of VOC, emission of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, convert the concentration of VOC in the engine exhaust using Equation 3 of this section:

$$ER = \frac{C_d \times 1.833 \times 10^{-3} \times Q \times T}{HP - hr} \quad (\text{Eq. 3})$$

Where:

<u>ER</u>	≡	<u>Emission rate of VOC in g/HP-hr.</u>
<u>C<sub>d</sub></u>	≡	<u>Measured VOC concentration in parts per million by volume (ppmv).</u>
<u>1.833 x 10<sup>-3</sup></u>	≡	<u>Conversion constant for ppm VOC to grams per standard cubic meter at 20 degrees Celsius.</u>
<u>Q</u>	≡	<u>Stack gas volumetric flow rate, in standard cubic meter per hour, dry basis.</u>
<u>T</u>	≡	<u>Time of test run, in hours.</u>
<u>HP - hr</u>	≡	<u>Break work of the engine, horsepower-hour (HP-hr).</u>

- g. If the owner/operator chooses to measure VOC emissions using either Method 18 or 40 CFR part 60, appendix A, or Method 320 of 40 CFR part 63, appendix A, then it has the option of correcting the measured VOC emissions to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 and Method 320 can be corrected for response factor differences using Equations 4 and 5 of this section. The corrected VOC concentration can then be placed on a propane basis using Equation 6 of this section.

$$RF_i = \frac{C_{Mi}}{C_{Ai}} \quad (\text{Eq. 4})$$

Where:

<u>RF<sub>i</sub></u>	≡	<u>Response factor of compound i when measured with EPA Method 25A.</u>
<u>C<sub>Mi</sub></u>	≡	<u>Measured concentration of compound i in ppmv as carbon.</u>
<u>C<sub>Ai</sub></u>	≡	<u>True concentration of compound i in ppmv as carbon.</u>

$$C_{i\text{corr}} = RF_i \times C_{i\text{meas}} \quad (\text{Eq. 5})$$

Where:

<u>C<sub>icorr</sub></u>	≡	<u>Concentration of compound i corrected to the value that would have been measured by EPA Method 25A, ppmv as carbon.</u>
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$C_{imeas}$   $\equiv$  Concentration of compound i measured by EPA Method 320, ppmv as carbon.

$$C_{P_{eq}} = 0.6098 \times C_{i_{corr}} \quad (\text{Eq. 6})$$

Where:

$C_{P_{eq}}$   $\equiv$  Concentration of compound i in mg of propane equivalent per DSCM.

**[45CSR13 - Permit No. R13-2856 §4.3.1., 45CSR16, 40 CFR §§60.4244(a)-(g)]**

#### **6.4. Recordkeeping Requirements**

6.4.1. Minor Source of Hazardous Air Pollutants (HAP). The registrant shall maintain records of annual HAP emissions using AP-42 emission factors, GRI-GLY Calc model outputs, manufacturer guaranteed values, sample and/or test data, or other methods approved by DAQ demonstrating that facility-wide emissions are less than those specified in Section 6.1.1.

**[45CSR13 - Permit No. R13-2856 §4.4.4.]**

6.4.2. For the two (2) emergency generators (Emission Unit IDs 005-01 and 005-02) with stationary SI ICE, the permittee must keep records of:

- a. All notifications submitted to comply with 40 CFR 60, Subpart JJJJ and all documentation supporting any notification.
- b. Maintenance conducted on the engine.
- c. If the stationary SI ICE is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90 and 1048 as applicable.
- d. If the stationary SI ICE is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards.

**[45CSR13 - Permit No. R13-2856 §4.4.5., 45CSR16, 40 CFR §60.4245(a)]**

6.4.3. To demonstrate compliance with Sections 6.1.7 and 6.1.8, the permittee of stationary SI ICE shall keep a log detailing the date, time, number of hours operated and twelve-month rolling total (of hours of operation) for each of the emergency generator engines.

**[45CSR13 - Permit No. R13-2856 §4.4.6.]**

6.4.4. **Retention of records.** The permittee shall maintain records of all information (including monitoring data, support information, reports and notifications) required by this permit (i.e., R13-2856) recorded in a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the permittee may

[maintain records electronically \(on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks\), on microfilm, or on microfiche.](#)  
[\[45CSR13 - Permit No. R13-2856 §3.4.1.\]](#)

## **6.5. [Reporting Requirements](#)**

- 6.5.1. [The permittee of stationary SI ICE that are subject to performance testing must submit a copy of each performance test as conducted in §60.4244 within 60 days after the test has been completed.](#)  
[\[45CSR13 - Permit No. R13-2856 §4.4.7., 45CSR16, 40 CFR §60.4245\(d\)\]](#)

## **6.6. [Compliance Plan](#)**

- 6.6.1. [\[Reserved\]](#)