

West Virginia Department of Environmental Protection  
Division of Air Quality

*Earl Ray Tomblin*  
Governor

*Randy C. Huffman*  
Cabinet Secretary

# Permit to Operate



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

*Issued to:*  
**Dominion Transmission, Inc.**  
Law Compressor Station  
R30-03300014-2011

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*John A. Benedict*  
Director

*Issued: May 24, 2011 • Effective: June 7, 2011*  
*Expiration: May 24, 2016 • Renewal Application Due: November 24, 2015*

Permit Number: **R30-03300014-2011**  
Permittee: **Dominion Transmission, Inc.**  
Facility Name: **Law Compressor Station**  
Permittee 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:	Good Hope, Harrison County, West Virginia
Facility Mailing Address:	P.O. Box 190, Route 90, McWhorter, WV 26401
Telephone Number:	(304) 884-8240
Type of Business Entity:	Corporation
Facility Description:	Natural Gas Transmission Facility
SIC Codes:	4922
UTM Coordinates:	545.88 km Easting • 4335.35 km Northing • Zone 17

Permit Writer: Rex Compston

*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.*

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## 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
EN01*	EN01	Reciprocating Engine/Integral Compressor; Cooper GMXE-8	1973	660 HP	N/A
EN02*	EN02	Reciprocating Engine/Integral Compressor Cooper GMXE-8	1973	660 HP	N/A
<a href="#">EG01*</a>	<a href="#">EG01</a>	<a href="#">Cummins GM8.1L</a>	<a href="#">2012</a>	<a href="#">192.5 HP</a>	<a href="#">N/A</a>
<a href="#">EG02*</a>	<a href="#">EG02</a>	<a href="#">Cummins GM8.1L</a>	<a href="#">2012</a>	<a href="#">192.5 HP</a>	<a href="#">N/A</a>
CPR01*	CPR01	Air compressor; Ingersoll Rand 15-T	1990	15 HP	N/A
<del>DEHY01*</del>	<del>DEHY01</del>	<del>Dehydration unit still; Nateo 5GR-1000-DX5</del>	<del>1973</del>	<del>12.6 mmsef/day</del>	<del>Flare</del>
<del>DEHY*</del>	<del>DEHY</del>	<del>Dehydration unit flare</del>	<del>1973</del>	<del>22.1 cfm</del>	<del>N/A</del>
<del>RBR01*</del>	<del>RBR01</del>	<del>Dehydration unit Reboiler; Production Equipment, Inc., 1513R</del>	<del>1973</del>	<del>1.7 MMBTU/hr</del>	<del>N/A</del>
<a href="#">DEHY02*</a>	<a href="#">DEHY02</a>	<a href="#">Dehydration unit still; Cameron</a>	<a href="#">2013</a>	<a href="#">9 mmscf/day</a>	<a href="#">Fl</a>
<a href="#">RBR02*</a>	<a href="#">RBR02</a>	<a href="#">Dehydration unit Reboiler; Cameron</a>	<a href="#">2013</a>	<a href="#">0.77 MMBTU/hr</a>	<a href="#">N/A</a>
<a href="#">F1*</a>	<a href="#">F1</a>	<a href="#">Dehydration unit flare; QTI, Q100</a>	<a href="#">2013</a>	<a href="#">4.0 MMBTU/hr</a>	<a href="#">N/A</a>
TK01	TK01	Vertical, above ground tank containing lube oil	1973	4,200 gallon	N/A
TK02	TK02	Vertical, above ground tank containing lube oil	1973	4,200 gallon	N/A
TK03	TK03	Horizontal, above ground tank containing drip gas	1989	2,000 gallon	N/A
TK04	TK04	Vertical, above ground tank containing used oil	1972	5,075 gallon	N/A
TK05	TK05	Vertical, above ground tank containing produced fluids	1973	4,200 gallon	N/A
TK06	TK06	Vertical, above ground tank containing wastewater	2003	500 gallon	N/A
TK07	TK07	Horizontal, above ground tank containing triethylene glycol	1973	1,000 gallon	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="#">G60-C041</a>	<a href="#">10/13/2011</a>
<a href="#">R13-2963</a>	<a href="#">4/3/2013</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.
- 2.1.4. Unless otherwise specified in a permit condition or underlying rule or regulation, all references to a "rolling yearly total" shall mean the sum of the monthly data, values or parameters being measured, monitored, or recorded, at any given time for the previous twelve (12) consecutive calendar months.

### 2.2. Acronyms

<b>CAAA</b>	Clean Air Act Amendments	<b>NSPS</b>	New Source Performance Standards
<b>CBI</b>	Confidential Business Information	<b>PM</b>	Particulate Matter
<b>CEM</b>	Continuous Emission Monitor	<b>PM<sub>10</sub></b>	Particulate Matter less than 10µm in diameter
<b>CES</b>	Certified Emission Statement	<b>pph</b>	Pounds per Hour
<b>C.F.R. or CFR</b>	Code of Federal Regulations	<b>ppm</b>	Parts per Million
<b>CO</b>	Carbon Monoxide	<b>PSD</b>	Prevention of Significant Deterioration
<b>C.S.R. or CSR</b>	Codes of State Rules	<b>psi</b>	Pounds per Square Inch
<b>DAQ</b>	Division of Air Quality	<b>SIC</b>	Standard Industrial Classification
<b>DEP</b>	Department of Environmental Protection	<b>SIP</b>	State Implementation Plan
<b>FOIA</b>	Freedom of Information Act	<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>HAP</b>	Hazardous Air Pollutant	<b>TAP</b>	Toxic Air Pollutant
<b>HON</b>	Hazardous Organic NESHAP	<b>TPY</b>	Tons per Year
<b>HP</b>	Horsepower	<b>TRS</b>	Total Reduced Sulfur
<b>lbs/hr or lb/hr</b>	Pounds per Hour	<b>TSP</b>	Total Suspended Particulate
<b>LDAR</b>	Leak Detection and Repair	<b>USEPA</b>	United States Environmental Protection Agency
<b>m</b>	Thousand	<b>UTM</b>	Universal Transverse Mercator
<b>MACT</b>	Maximum Achievable Control Technology	<b>VEE</b>	Visual Emissions Evaluation
<b>mm</b>	Million	<b>VOC</b>	Volatile Organic Compounds
<b>mmBtu/hr</b>	Million British Thermal Units per Hour		
<b>mmft<sup>3</sup>/hr or mmcf/hr</b>	Million Cubic Feet Burned per Hour		
<b>NA or N/A</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		

### **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 no later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions 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 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 or allow 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, owner, or operator 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). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.  
[40 C.F.R. §61.145(b) and 45CSR34]
- 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. ~~When emissions on an annual basis of one or more of the greenhouse gases listed below are greater than the de minimis amounts listed below, all greenhouse gases emitted above the de minimis amounts shall be reported to the Secretary under 45CSR§42-4. (see Section 3.5.):~~

<del>Greenhouse Gas Compound</del>	<del>tons/year</del>
<del>carbon dioxide</del>	<del>10,000</del>
<del>methane</del>	<del>476</del>
<del>nitrous oxide</del>	<del>32.6</del>
<del>hydrofluorocarbons</del>	<del>0.855</del>
<del>perfluorocarbons</del>	<del>1.09</del>
<del>sulfur hexafluoride</del>	<del>0.42</del>

~~[45CSR§42-3.1, State Enforceable only.]~~

~~**Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.~~

~~[45CSR13, Permit No. R13-2963 (Condition 4.1.3)]~~

- 3.1.10. 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

- 3.2.1. 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.
- d. The permittee shall submit a report of the results of the stack test within 60 days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:
  1. The permit or rule evaluated, with the citation number and language.
  2. The result of the test for each permit or rule condition.
  3. A statement of compliance or non-compliance with each permit or rule condition.

[WV Code §§ 22-5-4(a)(14-15) 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. R13-2963 \(Condition 4.4.1.\)](#)]

- 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.]

- 3.4.4. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.

[45CSR13, Permit No. R13-2963 (Condition 4.4.2.)]

- 3.4.5. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:

- a. The equipment involved.
- b. Steps taken to minimize emissions during the event.
- c. The duration of the event.
- d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

- e. The cause of the malfunction.
- f. Steps taken to correct the malfunction.
- g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

[45CSR13, Permit No. R13-2963 (Condition 4.4.3.)]

### 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. Except for the electronic submittal of the annual certification to the USEPA as required in 3.5.5 below, 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 annual certification to the USEPA shall be submitted in electronic format only. It shall be submitted by e-mail to the following address: R3\_APD\_Permits@epa.gov. 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.]

~~3.5.10. **Greenhouse Gas Reporting Requirements.** When applicable, as determined in permit section 3.1., greenhouse gas emissions shall be reported pursuant to 45CSR§42-4. as follows:~~

- ~~a. In accordance with a reporting cycle provided by the Secretary, affected sources shall report to the Secretary the quantity of all greenhouse gases emitted above *de minimis* amounts in the years specified by the Secretary.  
[45CSR§42-4.1., State Enforceable only.]~~
- ~~b. Affected sources shall only be required to report annual quantities of anthropogenic non mobile source greenhouse gases emitted at the stationary source, and shall not be required to report biogenic emissions of greenhouse gases.  
[45CSR§42-4.2., State Enforceable only.]~~

~~e. Reports of greenhouse gas emissions submitted to the Secretary under 45CSR§42-4 shall be signed by a responsible official and shall include the following certification statement: "I, the undersigned, hereby certify that the data transmitted to the West Virginia Department of Environmental Protection is true, accurate, and complete, based upon information and belief formed after reasonable inquiry. [45CSR§42-4.5, State Enforceable only.]"~~

### 3.6. Compliance Plan

3.6.1. 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.

a. ~~45CSR10—To Prevent and Control Air Pollution from the Emissions of Sulfur Oxides: The flare (F1) is exempt from this rule according to 45CSR§10-2.8; the flare does not meet the definition of a fuel-burning unit in 45CSR§10-2.8.~~

~~40 CFR 64 Compliance Assurance Monitoring. This is the second permit renewal for this facility. At the time of the first renewal, CAM was determined not to be applicable to the sources at this facility. Therefore, a CAM applicability determination is not required.~~

b. ~~40 C.F.R § 60.18. Flare is used only to control the odor. Even without flare the facility is not a major source of HAPs. Therefore, 40 C.F.R § 60.18 is not applicable.~~

### 3.8. Emergency Operating Scenario

3.8.1. 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 [RBR042]

##### 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; 45CSR13, Permit No. R13-2963 (Condition 5.1.2.)]

4.1.2. The reboiler shall be installed, maintained, and operated so as to minimize any fugitive escape of pollutants, shall not exceed the listed maximum design capacities, shall use the specified control devices, and shall not exceed the emission limits given in the following table:

<u>Emission Point ID</u>	<u>Emission Unit ID</u>	<u>Emission Unit Description</u>	<u>Regulated Pollutant</u>	<u>Maximum Potential Controlled Emissions</u>	
				<u>lb/hr</u>	<u>tpy</u>
<u>RBR02</u>	<u>RBR02</u>	<u>Dehydrator Unit Reboiler</u>	<u>PM<sub>2.5</sub></u>	<u>0.01</u>	<u>0.01</u>
			<u>NO<sub>x</sub></u>	<u>0.03</u>	<u>0.13</u>
			<u>CO</u>	<u>0.02</u>	<u>0.09</u>
			<u>SO<sub>2</sub></u>	<u>0.01</u>	<u>0.01</u>
			<u>VOC</u>	<u>0.03</u>	<u>0.15</u>
			<u>Total HAP</u>	<u>0.01</u>	<u>0.01</u>

[45CSR13, Permit No. R13-2963 (Condition 5.1.1.)]

##### 4.2. Monitoring Requirements

4.2.1. At such reasonable times as the Secretary may designate, the registrant shall conduct Method 9 emission observations for the purpose of demonstrating compliance with condition 4.1.1. Method 9 shall be conducted in accordance with 40 CFR 60, Appendix A.

[45CSR13, Permit No. R13-2963 (Condition 5.2.1.)]

##### 4.3. Testing Requirements

4.3.1. N/A

##### 4.4. Recordkeeping Requirements

4.4.1. To demonstrate compliance with the emission limits established in 4.1.2, the permittee shall maintain records of actual operating hours on a monthly and annual basis.

[45CSR13, Permit No. R13-2963 (Condition 5.4.1.)]

#### **4.5. Reporting Requirements**

- 4.5.1. Any deviation(s) from the allowable visible emission requirement for any emission source discovered during observations using 40CFR Part 60, Appendix A, Method 9 or 22 shall be reported in writing to the Director of the Division of Air Quality as soon as practicable, but in any case within ten (10) calendar days of the occurrence and shall include at least 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.  
[45CSR13, Permit No. R13-2963 (Condition 5.5.1.)]

#### **4.6. Compliance Plan**

- 4.6.1. N/A

## 5.0 Source-Specific Requirements [~~DEHYF1~~, DEHY012]

### 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:*

$(5.43) \times (22.1 \text{ 9 cf/min}) \times (60 \text{ min/hr}) \times (0.0399 \text{ lb/cf}) \times (\text{ton}/2000 \text{ lb})$

$= 0.1439 \text{ 0.0585 lb/hr}$

[45CSR§6-4.1][~~DEHYF1~~]

- 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.

The provisions of this condition shall not apply to smoke which is less than forty (40%) percent opacity, for a period or periods aggregating no more than eight (8) minutes per start-up, or six (6) minutes in any sixty (60)-minute period for stoking operations.

[45CSR§§6-4.3 and 4.4; 45CSR13, Permit No. R13-2963 (Condition 6.1.4.)][~~DEHYF1~~]

- 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][~~DEHYF1~~]

- 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; 45CSR13, Permit No. R13-2963 (Condition 6.1.4.)][~~DEHYF1~~]

- 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 TEG dehydration unit facility shall not emit HAPs to the atmosphere equaling or exceeding the major source thresholds of 10 tpy of any individual HAP or 25 tpy of aggregate HAPs. Therefore, the subject facility shall conduct monitoring, testing, and reporting as specified below in order to provide adequate justification for maintaining minor source status. These requirements shall in no way restrict the permittee from conducting more frequent testing to quantify emissions increases.

[40CFR§63.10(b)(3); (Subpart HH); 45CSR13, Permit No. R13-2963 (Condition 4.1.2.)] [~~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] [DEHY012, ~~DEHYF1~~]

- 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] [DEHY042, DEHYF1]

- 5.1.8. If the annual emissions for 2010 or any year thereafter reaches or exceeds 1 tpy of benzene for the dehydration unit, the permittee shall comply with the following:

Each owner or operator of an area source not located in a UA plus offset and UC boundary (as defined in 40 CFR §63.761) shall comply with the following:

- a. Determine the optimum glycol circulation rate using the following equation:

$$L_{OPT} = 1.15 * 3.0 \frac{\text{gal TEG}}{\text{lb H}_2\text{O}} * \left( \frac{F * (I - O)}{24 \text{ hr/day}} \right)$$

Where:

$L_{OPT}$  = Optimal circulation rate, gal/hr.

F = Gas flowrate (MMSCF/D).

I = Inlet water content (lb/MMSCF).

O = Outlet water content (lb/MMSCF).

3.0 = The industry accepted rule of thumb for a TEG-to water ratio (gal TEG/lb H<sub>2</sub>O).

1.15 = Adjustment factor included for a margin of safety.

- b. Operate the TEG dehydration unit such that the actual glycol circulation rate does not exceed the optimum glycol circulation rate determined in accordance with 40 CFR §63.764(d)(2)(i). If the TEG dehydration unit is unable to meet the sales gas specification for moisture content using the glycol circulation rate determined in accordance with 40 CFR §63.764(d)(2)(i), the owner or operator must calculate an alternate circulation rate using GRI-GLYCalc™, Version 3.0 or higher. The owner or operator must document why the TEG dehydration unit must be operated using the alternate circulation rate and submit this documentation with the initial notification in accordance with 40 CFR §63.775(c)(7).
- c. Maintain a record of the determination specified in 40 CFR §63.764(d)(2)(ii) in accordance with the requirements in 40 CFR §63.774(f) and submit the Initial Notification in accordance with the requirements in 40 CFR §63.775(c)(7). If operating conditions change and a modification to the optimum glycol circulation rate is required, the owner or operator shall prepare a new determination in accordance with 40 CFR §§63.764 (d)(2)(i) or (ii) and submit the information specified under 40 CFR §63.775(c)(7)(ii) through (v).

[40 C.F.R. §§63.764(d)(2) and (e)(1)(ii)]

5.1.9. The following equipment shall be installed, maintained, and operated so as to minimize any fugitive escape of pollutants, shall not exceed the listed maximum design capacities, shall use the specified control devices, and shall not exceed the emission limits given in the following table:

<u>Emission Point ID</u>	<u>Emission Unit ID</u>	<u>Emission Unit Description</u>	<u>Regulated Pollutant</u>	<u>Maximum Potential Controlled Emissions</u>	
				<u>lb/hr</u>	<u>tpy</u>
<u>DEHY02</u>	<u>DEHY02</u>	<u>Dehydrator Unit Still</u>	<u>VOC</u>	<u>2.43</u>	<u>10.63</u>
			<u>Benzene</u>	<u>0.04</u>	<u>0.18</u>
			<u>Toluene</u>	<u>0.10</u>	<u>0.43</u>
			<u>Ethylbenzene</u>	<u>0.02</u>	<u>0.10</u>
			<u>Xylene</u>	<u>0.15</u>	<u>0.65</u>
			<u>Total HAP</u>	<u>0.34</u>	<u>1.48</u>
<u>F1</u>	<u>F1</u>	<u>Dehydration Unit Flare (combustion emissions)</u>	<u>VOC</u>	<u>0.01</u>	<u>0.01</u>
			<u>NO<sub>x</sub></u>	<u>0.12</u>	<u>0.50</u>
			<u>CO</u>	<u>0.02</u>	<u>0.09</u>
			<u>PM<sub>2.5</sub></u>	<u>0.03</u>	<u>0.13</u>

**[45CSR13, Permit No. R13-2963 (Condition 6.1.1.)]**

5.1.10. Maximum Throughput Limitations. The maximum wet natural gas throughput to the glycol dehydration unit/still column shall not exceed 9 mmscf/day (3,285 mmscf/yr). Compliance with the maximum throughput limitation shall be determined using a twelve month rolling total. A twelve month rolling total shall mean the sum of the monthly throughput at any given time during the previous twelve consecutive calendar months.

**[45CSR13, Permit No. R13-2963 (Condition 6.1.2.)]**

5.1.11. The dehydration unit flare [F1] shall be designed and operated in accordance with the following:

- a. The flare [F1] shall be non-assisted.
- b. The flare [F1] shall be designed for and operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.
- c. The flare [F1] shall be operated with a flame present at all times except during SSM (Startup, Shutdown, Malfunctions) events.
- d. The flare [F1] shall be used only where the net heating value of the gas being combusted is 7.45 MJ/scm (200 Btu/scf) or greater if the flare is non-assisted. The net heating value of the gas being combusted in a flare shall be calculated using the following equation:

$$H_T = \sum_{i=1}^n C_i H_i$$

Where:

H<sub>T</sub>=Net heating value of the sample, MJ/scm; where the net enthalpy per mole of off gas is based on combustion at 25 °C and 760 mm Hg, but the standard temperature for determining the volume corresponding to one mole is 20 °C.

$$K = \text{Constant} = 1.740 \times 10^{-7} \left( \frac{1}{\text{ppmv}} \right) \left( \frac{\text{g-mole}}{\text{scm}} \right) \left( \frac{\text{MJ}}{\text{kcal}} \right)$$

where the standard temperature for (g-mole/scm) is 20 °C.

C<sub>i</sub>=Concentration of sample component i in ppmv on a wet basis, which may be measured for organics by Test Method 18, but is not required to be measured using Method 18 (unless designated by the Director).

H<sub>i</sub>=Net heat of combustion of sample component i, kcal/g-mole at 25 °C and 760 mm Hg. The heats of combustion may be determined using ASTM D2382-76 or 88 or D4809-95 if published values are not available or cannot be calculated.

n=Number of sample components.

- e. Nonassisted flares shall be designed for and operated with an exit velocity less than 18.3 m/sec (60 ft/sec) as determined by the methods specified in 5.3.2 of this permit except as provided in conditions 5.1.11.f and g.
- f. Nonassisted flares designed for and operated with an exit velocity, as determined by the method specified in 5.3.2 of this permit, equal to or greater than 18.3 m/sec (60 ft/sec) but less than 122 m/sec (400 ft/sec), are allowed if the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1,000 Btu/scf).
- g. Nonassisted flares designed for and operated with an exit velocity, as determined by the method specified in 5.3.2. of this permit, less than the velocity V<sub>max</sub>, as determined by the calculation specified in this paragraph, but less than 122 m/sec (400 ft/sec) are allowed. The maximum permitted velocity, V<sub>max</sub>, for flares complying with this paragraph shall be determined by the following equation:

$$\text{Log}_{10}(V_{\text{max}}) = (H_T + 28.8) / 31.7$$

Where:

V<sub>max</sub>=Maximum permitted velocity, m/sec.

28.8=Constant.

31.7=Constant.

H<sub>T</sub>=The net heating value as determined in condition 5.1.11.d

**[40 C.F.R. §60.18; 45CSR13, Permit No. R13-2963 (Condition 6.1.3.)]**

5.1.12. The group of all equipment, except compressors, within the glycol dehydration process unit is subject to the requirements of 40 CFR 60, Subpart OOOO including but not limited to the following:

- a. Addition or replacement of equipment for the purpose of process improvement that is accomplished without a capital expenditure shall not by itself be considered a modification under 40 C.F.R. 60, Subpart OOOO.

**[40 CFR § 60.5365(f)(1)]**

- b. Equipment associated with a compressor station, dehydration unit, sweetening unit, underground storage vessel, field gas gathering system, or liquefied natural gas unit is covered by 40 C.F.R. §§60.5400, 60.5401, 60.5402, 60.5421, and 60.5422 if it is located at an onshore natural gas processing plant. Equipment not located at the onshore natural gas processing plant site is exempt from the provisions of §§60.5400, 60.5401, 60.5402, 60.5421, and 60.5422.  
[40 CFR § 60.5365(f)(2)]
- c. The equipment within a process unit of an affected facility located at onshore natural gas processing plants and described in 40 C.F.R. § 63.5635(f) are exempt from 40 C.F.R. 60, Subpart OOOO if they are subject to and controlled according to subparts VVa, GGG or GGGa of 40 C.F.R. 60.  
[40 CFR § 60.5365(f)(3)]
- d. Compliance Requirements.
- The permittee must be in compliance with the standards of 40 C.F.R. 60, Subpart OOOO no later than October 15, 2012 or upon startup, whichever is later.
  - The provisions for exemption from compliance during periods of startup, shutdown, and malfunctions provided for in 40 CFR § 60.8(c) do not apply to 40 C.F.R. 60, Subpart OOOO.  
[40 CFR § 60.5370]
- e. This section applies to the group of all equipment, except compressors, within a process unit.
- The permittee must comply with the requirements of 40 C.F.R. §§60.482–1a(a), (b), and (d), 60.482–2a, and 60.482–4a through 60.482–11a, except as provided in 40 C.F.R. §60.5401.
  - The permittee may elect to comply with the requirements of 40 C.F.R. §§60.483–1a and 60.483–2a, as an alternative.
  - The permittee may apply to the Administrator for permission to use an alternative means of emission limitation that achieves a reduction in emissions of VOC at least equivalent to that achieved by the controls required in 40 C.F.R. 60, Subpart OOOO according to the requirements of 40 C.F.R. §60.5402.
  - The permittee must comply with the provisions of 40 C.F.R. §60.485a except as provided in condition 5.1.12.e.6.
  - The permittee must comply with the provisions of 40 C.F.R. §§60.486a and 60.487a except as provided in 40 C.F.R. §§60.5401, 60.5421, and 60.5422.
  - The permittee must use the following provision instead of 40 C.F.R. §60.485a(d)(1): Each piece of equipment is presumed to be in VOC service or in wet gas service unless an owner or operator demonstrates that the piece of equipment is not in VOC service or in wet gas service. For a piece of equipment to be considered not in VOC service, it must be determined that the VOC content can be reasonably expected never to exceed 10.0 percent by weight. For a piece of equipment to be considered in wet gas service, it must be determined that it contains or contacts the field gas before the extraction step in the process. For purposes of determining the percent VOC content of the process fluid that is contained in or contacts a piece of equipment, procedures that conform to the methods described in ASTM E169–93, E168–92, or E260–96 (incorporated by reference as specified in 40 C.F.R. §60.17) must be used.

[40 CFR §60.5400]

- f. Exceptions to the equipment leak standards.
1. The permittee may comply with the following exceptions to the provisions of 40 C.F.R. §60.5400(a) and (b).
  2. Each pressure relief device in gas/vapor service may be monitored quarterly and within 5 days after each pressure release to detect leaks by the methods specified in 40 C.F.R. §60.485a(b) except as provided in 40 C.F.R. §60.5400(c) and in 40 C.F.R. §60.5401(b)(4), and 40 C.F.R. §60.482–4a(a) through (c) of subpart VVa.
  3. If an instrument reading of 500 ppm or greater is measured, a leak is detected.
  4. When a leak is detected, it must be repaired as soon as practicable, but no later than 15 calendar days after it is detected, except as provided in 40 C.F.R. §60.482–9a.
  5. A first attempt at repair must be made no later than 5 calendar days after each leak is detected.
  6. Any pressure relief device that is located in a nonfractionating plant that is monitored only by non-plant personnel may be monitored after a pressure release the next time the monitoring personnel are on-site, instead of within 5 days as specified in 40 C.F.R. §60.5401(b)(1) and 40 C.F.R. §60.482–4a(b)(1) of subpart VVa.
  7. No pressure relief device described in paragraph 40 C.F.R. §60.5401(b)(4)(i) must be allowed to operate for more than 30 days after a pressure release without monitoring.
  8. Sampling connection systems are exempt from the requirements of 40 C.F.R. §60.482–5a.
  9. Pumps in light liquid service, valves in gas/vapor and light liquid service, and pressure relief devices in gas/vapor service that are located at a nonfractionating plant that does not have the design capacity to process 283,200 standard cubic meters per day (scmd) (10 million standard cubic feet per day) or more of field gas are exempt from the routine monitoring requirements of 40 C.F.R. §§60.482–2a(a)(1) and 60.482–7a(a), and 40 C.F.R. §60.5401(b)(1).
  10. Pumps in light liquid service, valves in gas/vapor and light liquid service, and pressure relief devices in gas/vapor service within a process unit that is located in the Alaskan North Slope are exempt from the routine monitoring requirements of 40 C.F.R. §§60.482–2a(a)(1), 60.482–7a(a), and 40 C.F.R. §60.5401(b)(1).
  11. An owner or operator may use the following provisions instead of 40 C.F.R. §60.485a(e):
    - i. Equipment is in heavy liquid service if the weight percent evaporated is 10 percent or less at 150 °C (302 °F) as determined by ASTM Method D86–96 (incorporated by reference as specified in §60.17).
    - ii. Equipment is in light liquid service if the weight percent evaporated is greater than 10 percent at 150 °C (302 °F) as determined by ASTM Method D86–96 (incorporated by reference as specified in §60.17).
  12. An owner or operator may use the following provisions instead of 40 C.F.R. §60.485a(b)(2): A calibration drift assessment shall be performed, at a minimum, at the end of each monitoring day. Check the instrument using the same calibration gas(es) that were used to calibrate the instrument before use. Follow the procedures specified in Method 21 of appendix A–7 of this part, Section 10.1, except do not adjust the meter readout to correspond to the calibration gas value. Record the instrument reading for each scale used as specified in 40 C.F.R. §60.486a(e)(8). Divide these

readings by the initial calibration values for each scale and multiply by 100 to express the calibration drift as a percentage. If any calibration drift assessment shows a negative drift of more than 10 percent from the initial calibration value, then all equipment monitored since the last calibration with instrument readings below the appropriate leak definition and above the leak definition multiplied by (100 minus the percent of negative drift/divided by 100) must be re-monitored. If any calibration drift assessment shows a positive drift of more than 10 percent from the initial calibration value, then, at the owner/operator's discretion, all equipment since the last calibration with instrument readings above the appropriate leak definition and below the leak definition multiplied by (100 plus the percent of positive drift/divided by 100) may be re-monitored.

**[40 CFR §60.5401]**

- g. Alternative emission limitations for equipment leaks.
1. If, in the Administrator's judgment, an alternative means of emission limitation will achieve a reduction in VOC emissions at least equivalent to the reduction in VOC emissions achieved under any design, equipment, work practice or operational standard, the Administrator will publish, in the Federal Register, a notice permitting the use of that alternative means for the purpose of compliance with that standard. The notice may condition permission on requirements related to the operation and maintenance of the alternative means.
  2. Any notice under condition 5.1.12.g.1 must be published only after notice and an opportunity for a public hearing.
  3. The Administrator will consider applications under this section from either owners or operators of affected facilities, or manufacturers of control equipment.
  4. The Administrator will treat applications under this section according to the following criteria, except in cases where the Administrator concludes that other criteria are appropriate:
    - i. The applicant must collect, verify and submit test data, covering a period of at least 12 months, necessary to support the finding in condition 5.1.12.g.1.
    - ii. If the applicant is an owner or operator of an affected facility, the applicant must commit in writing to operate and maintain the alternative means so as to achieve a reduction in VOC emissions at least equivalent to the reduction in VOC emissions achieved under the design, equipment, work practice or operational standard.

**[40 CFR §60.5402]**

- h. Affirmative defense for violations of emission standards during malfunction. In response to an action to enforce the standards set forth in 40 C.F.R. §60.5400, the permittee may assert an affirmative defense to a claim for civil penalties for violations of such standards that are caused by malfunction, as defined at 40 C.F.R. §60.2. Appropriate penalties may be assessed, however, if the permittee fails to meet the burden of proving all of the requirements in the affirmative defense. The affirmative defense shall not be available for claims for injunctive relief.
1. To establish the affirmative defense in any action to enforce such a standard, the permittee must timely meet the reporting requirements in 40 C.F.R. §60.5420(a), and must prove by a preponderance of evidence that:
    - i. The violation:
      - A. Was caused by a sudden, infrequent, and unavoidable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner; and

- B. Could not have been prevented through careful planning, proper design or better operation and maintenance practices; and
  - C. Did not stem from any activity or event that could have been foreseen and avoided, or planned for; and
  - D. Was not part of a recurring pattern indicative of inadequate design, operation, or maintenance; and
- ii. Repairs were made as expeditiously as possible when a violation occurred. Off-shift and overtime labor were used, to the extent practicable to make these repairs; and
  - iii. The frequency, amount and duration of the violation (including any bypass) were minimized to the maximum extent practicable; and
  - iv. If the violation resulted from a bypass of control equipment or a process, then the bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
  - v. All possible steps were taken to minimize the impact of the violation on ambient air quality, the environment and human health; and
  - vi. All emissions monitoring and control systems were kept in operation if at all possible, consistent with safety and good air pollution control practices; and
  - vii. All of the actions in response to the violation were documented by properly signed, contemporaneous operating logs; and
  - viii. At all times, the affected source was operated in a manner consistent with good practices for minimizing emissions; and
  - ix. A written root cause analysis has been prepared, the purpose of which is to determine, correct, and eliminate the primary causes of the malfunction and the violation resulting from the malfunction event at issue. The analysis shall also specify, using best monitoring methods and engineering judgment, the amount of any emissions that were the result of the malfunction.
2. Report. The owner or operator seeking to assert an affirmative defense shall submit a written report to the Administrator with all necessary supporting documentation, that it has met the requirements set forth in condition 5.1.12.h.1. This affirmative defense report shall be included in the first periodic compliance, deviation report or excess emission report otherwise required after the initial occurrence of the violation of the relevant standard (which may be the end of any applicable averaging period). If such compliance, deviation report or excess emission report is due less than 45 days after the initial occurrence of the violation, the affirmative defense report may be included in the second compliance, deviation report or excess emission report due after the initial occurrence of the violation of the relevant standard.

**[40 CFR §60.5415 (h)]**

- i. NSPS General Provisions. Attachment A shows which parts of the General Provisions in §§60.1 through 40 C.F.R. 60.19 apply to this facility. [40 CFR §60.5425]

**[40 C.F.R. 60, Subpart OOOO; 45CSR16; 45CSR13, Permit No. R13-2963 (Condition 6.1.5.)]**

- 5.1.13. The dehydration plant is subject to 40 CFR 63, Subpart HH, “National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities”, the amendments of which became effective October 15, 2012. The provisions set forth in 40 C.F.R. 63, Subpart HH shall apply at all times. [40 C.F.R. 63, Subpart HH; 40 CFR §§ 63.760 and 63.762(a) ; 45CSR13, Permit No. R13-2963 (Condition 6.1.6.)]
- 5.1.14. The actual annual benzene emission limit established in condition 5.1.9 meets the exemption criteria of <0.9 Mg/yr (<1.0 Tons/yr) that is listed in 40 C.F.R. §63.764(e)(1)(ii) and as determined by condition 5.1.16 of this permit. The actual annual benzene emissions shall be determined within 14 months of start-up and verified annually thereafter. [45CSR13, Permit No. R13-2963 (Condition 6.1.7.)]
- 5.1.15. Attachment B specifies the provisions of subpart A (General Provisions) of 40 CFR 63 that apply and those that do not apply to owners and operators of affected sources subject to 40 CFR 63, Subpart HH. The only affected source is the Glycol Dehydration Unit [DEHY02]. [40 C.F.R. 63, Subpart HH; §63.764 (a); 45CSR13, Permit No. R13-2963 (Condition 6.1.8.)]
- 5.1.16. Determination of benzene emissions. The procedures of this condition shall be used by an owner or operator to determine glycol dehydration unit natural gas benzene emissions to show compliance with the benzene emission limits established in condition 5.1.9 and the exemption requirement in condition 5.1.14. The determination of actual average benzene emissions from a glycol dehydration unit shall be made using either of the following procedures. Emissions shall be determined either uncontrolled, or with federally enforceable controls in place.
- a. The owner or operator shall determine actual average benzene emissions using the model GRI-GLYCalc™, Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalc™ Technical Reference Manual. Inputs to the model shall be representative of actual operating conditions of the glycol dehydration unit and may be 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); or
- b. The owner or operator shall determine an average mass rate of benzene emissions in kilograms per hour through direct measurement using the methods in 40 C.F.R. §63.772(a)(1)(i) or (ii), or an alternative method according to 40 C.F.R. §63.7(f). Annual emissions in kilograms per year shall be determined by multiplying the mass rate by the number of hours the unit is operated per year. This result shall be converted to megagrams per year.
- [40 C.F.R. 63, Subpart HH; 40 CFR §63.772 (b)(2); 45CSR13, Permit No. R13-2963 (Condition 6.1.9.)]

## 5.2. Monitoring Requirements

- 5.2.1. **In order to demonstrate compliance with the area source status, claimed within 5.1.5, and the benzene emission exemption, claimed within 5.1.14,** using GRI-GLYCalc V3 or higher, the dehydration system must be accurately defined by **monitoring and recording actual operating parameters associated with the dehydration system.** These parameters shall be measured periodically in order to define annual average values or if monitoring is not practical some parameters may be assigned default values as listed below. Periodically, shall be interpreted as sufficient enough to reflect annual variation and therefore, this term is operating parameter and site dependant.

The WV Division of Air Quality requires the following **actual** operating parameters be measured or assumed to equal the default values listed below in order to satisfy this monitoring requirement when using **the Gas Analysis and Process Data, GLYCalc emission modeling method:**

- Natural Gas Flowrate:
  - number of days operated per year,
  - annual daily average (MMscf/day), and
  - maximum design capacity (MMscf/day)
- Absorber temperature and pressure
- Lean glycol circulation rate
- Glycol pump type
- Flash tank temperature and pressure, if applicable
- 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.

The following operating parameter(s) may be assigned default values when using GRI-GLYCalc:

- Dry Gas water content at a point directly after exiting the dehydration column and before any additional separation points or assume pipeline quality at 7 lb H<sub>2</sub>O / MMscf.
- Lean glycol water content if not directly measured may use the default value of 1.5 % water as established by GRI.
- Lean glycol circulation rate may be estimated using the recirculation ratio of 3 gal TEG / lb H<sub>2</sub>O removed.

**[45CSR§30-5.1.c.; 45CSR13, Permit No. R13-2963 (Condition 6.2.1.)] [DEHYF1]**

- 5.2.2. ~~Visual emission checks of each emission point specified shall be conducted monthly. To demonstrate compliance with the visible emission and opacity limitations established in 5.1.2 and 5.1.11, the permittee shall conduct monthly visual emission checks.~~ 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 (July 1, 1994). ~~Records shall be maintained on site for a period of no less than five (5) years stating the date and time of each visible emission check, whether visible emissions were observed, the opacity observed, and the corrective measures taken.~~ Visible emission checks shall not be required during start-ups, shut-downs and malfunctions.

**[45CSR§30-5.1.c.; 45CSR§6-4.3, 45CSR13, Permit No. R13-2963 (Condition 6.2.3.)] [DEHYF1]**

- 5.2.3. At a minimum of once per permit term, 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 2.149 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; 45CSR10§10-4.1] [DEHYF1, DEHY042]**

- 5.2.4. At a minimum of once per permit term, 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 0.2652 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; 45CSR10§10-5.1] [DEHYF1, DEHY042]**

- 5.2.5. **Commencement of operation.** The permittee shall conduct the monitoring required under 40 CFR Part 64 upon issuance of this permit that includes such monitoring, or by the initial start-up date of the flare (F1) that requires such monitoring, whichever is later.

**[40 CFR §§ 64.7(a) and 64.6(d); 45CSR§30-5.1.c.]**

5.2.6. Proper Maintenance – At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.  
[40 CFR § 64.7(b); 45CSR§30-5.1.c.]

5.2.7. Continued Operation – Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of 40 CFR Part 64, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.  
[40 CFR § 64.7(c); 45CSR§30-5.1.c.]

5.2.8. Documentation of Need for Improved Monitoring – After approval of monitoring under 40 CFR Part 64, if the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the Director and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.  
[40 CFR § 64.7(e); 45CSR§30-5.1.c.]

5.2.9. Quality Improvement Plan (QIP) – Based on the results of a determination made under 40 C.F.R. §64.7(d)(2) (permit condition 5.2.11.b), the Administrator or the Director may require the permittee to develop and implement a QIP. If a QIP is required, then it shall be developed, implemented, and modified as required according to 40 C.F.R. §§ 64.8(b) through (e).  
[40 CFR § 64.8; 45CSR§30-5.1.c.]

5.2.10. Excursions – Pilot flame absence indicates an excursion.  
[40 CFR § 64.6(c)(2); 45CSR§30-5.1.c.]

5.2.11. Response to Excursions or Exceedances

- a. Upon detecting an excursion or exceedance, the permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

- b. Determination of whether the permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

[40 CFR § 64.7(d); 45CSR§30-5.1.c.]

- 5.2.12. The permittee shall monitor the throughput of the wet natural gas feed to the dehydration system on a daily and monthly basis to demonstrate compliance with condition 5.1.10.

[45CSR13, Permit No. R13-2963 (Condition 6.2.2)]

- 5.2.13. To demonstrate compliance with the requirements of 5.1.11.c., the permittee shall monitor the presence or absence of a flare pilot flame using a thermocouple or any other equivalent device to detect the presence of a flame, except during SSM events. The system must also be equipped with a continuous recorder.

[40 C.F.R §64.3(a); 45CSR§30-5.1.c; 45CSR13, Permit No. R13-2963 (Condition 6.2.4)]

- 5.2.14. The permittee shall monitor the flare [F1] to ensure that it is operated and maintained in conformance with its design.

[45CSR13, Permit No. R13-2963 (Condition 6.2.5)]

- 5.2.15. Demonstrating continuous compliance with the standards for affected facilities at onshore natural gas processing plants. For affected facilities at onshore natural gas processing plants, continuous compliance with VOC requirements is demonstrated if the permittee is in compliance with the requirements of 40 C.F.R. §60.5400. [45CSR16; 40 CFR §60.5415 (f); 45CSR13, Permit No. R13-2963 (Condition 6.2.6)]

### 5.3. Testing Requirements

- 5.3.1. ~~At least once per calendar year upon issuance of the permit, the permittee shall determine the contents of the wet natural gas stream by analyzing the sample using GPA Method 2286 extended analysis. As specified in the handbook the permittee shall sample the wet gas stream at a location prior to the glycol dehydration column, but after any type of separation device, in accordance with sampling method GPA 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. In order to demonstrate compliance with condition 5.1.9, upon request of the Director, the permittee shall demonstrate compliance with the HAP emissions thresholds using GLYCalc Version 3.0 or higher. The permittee shall sample in accordance with GPA Method 2166 and analyze the samples utilizing the extended GPA Method 2286 as specified in the GRI-GLYCalc V4 Technical Reference User Manual and Handbook.~~

[45CSR§30-5.1.e] [45CSR13, Permit No. R13-2963 (Condition 6.3.1)]

- 5.3.2. Flare exit velocity. The actual exit velocity of a flare shall be determined by dividing by the volumetric flow rate of gas being combusted (in units of emission standard temperature and pressure), by the unobstructed (free) cross-sectional area of the flare tip, which may be determined by Test Method 2, 2A, 2C, or 2D in appendix A to 40 CFR part 60, as appropriate, but is not required to be determined using these Methods (unless designated by the Director).

[45CSR13, Permit No. R13-2963 (Condition 6.3.2)]

- 5.3.3. Visible emissions.

- a. In order to demonstrate compliance with the flare visible emission and opacity requirements of conditions 5.1.2 and 5.1.11, the permittee shall conduct a visible emissions test for at least two hours.

This test shall demonstrate no visible emissions are observed for more than a total of 5 minutes during any 2 consecutive hour period using 40CFR60 Appendix A Method 22. The applicant shall conduct this test within one (1) year of permit issuance or initial startup whichever is later. The visible emission checks shall determine the presence or absence of visible emissions. At a minimum, the observer must be trained and knowledgeable regarding the effects of background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor) on the visibility of emissions. This training may be obtained from written materials found in the References 1 and 2 from 40 CFR part 60, appendix A, Method 22 or from the lecture portion of 40 CFR part 60, appendix A, Method 9 certification course.

- b. If visible emissions are observed, the permittee shall conduct an opacity test using the procedures and requirements of Method 9 as soon as practicable, but within seventy-two (72) hours of the visual emission check.

**[45CSR13, Permit No. R13-2963 (Condition 6.3.3)]**

- 5.3.4. The Director may require the applicant to conduct a flare compliance assessment to demonstrate compliance with conditions 5.1.11. This compliance assessment testing shall be conducted in accordance with Test Method 18 for organics and Test Method 2, 2A, 2C, or 2D in appendix A to 40 CFR part 60, as appropriate, or other equivalent testing approved in writing by the Director. Also, Test Method 18 may require the applicant to conduct Test Method 4 in conjunction with Test Method 18.

**[45CSR13, Permit No. R13-2963 (Condition 6.3.4)]**

- 5.3.5. Demonstrating initial compliance for equipment leaks. The initial compliance period begins on October 15, 2012 or upon initial startup, whichever is later, and ends no later than one year after the initial startup date for the affected facility or no later than one year after October 15, 2012. The initial compliance period may be less than one full year. For affected facilities at onshore natural gas processing plants, initial compliance with the VOC requirements is demonstrated if the permittee is in compliance with the requirements of 40 C.F.R. §60.5400.

**[40 CFR §60.5410 (f); 45CSR16; 45CSR13, Permit No. R13-2963 (Condition 6.3.5)]**

#### **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.e] Reserved**

- 5.4.2. **Minor Source of Hazardous Air Pollutants (HAP).** For the purpose of demonstrating compliance with the facility wide HAP emissions limit and area source status in condition 5.1.5, the permittee shall maintain records of annual HAP emissions using AP-42 emission factors, GRI-GLYCalc model outputs, manufacturer guaranteed values, sample and/or test data, or other methods approved by DAQ demonstrating that the facility-wide HAP emissions are less than those specified in condition 5.1.5.**[45CSR13, Permit No. R13-2963 (Condition 4.4.4.)]**

- 5.4.3. To demonstrate compliance with the emission limits established in 5.1.9, the permittee shall maintain records of actual operating hours. The permittee shall also maintain records of the operating parameters in accordance with the requirements in 5.2.1.  
[45CSR13, Permit No. R13-2963 (Condition 6.4.1)]
- 5.4.4. To demonstrate compliance with the maximum wet natural gas throughput limitation established in condition 5.1.10 of this permit, the permittee shall maintain a record of the wet natural gas throughput through the dehydration system on a daily basis. Compliance with the maximum throughput limitation shall be determined using a twelve month rolling total. A twelve month rolling total shall mean the sum of the monthly throughput at any given time during the previous twelve consecutive calendar months.  
[45CSR13, Permit No. R13-2963 (Condition 6.4.2)]
- 5.4.5. To demonstrate compliance with the visible emission and opacity requirements in conditions 5.1.2 and 5.1.11, the permittee shall maintain records of the visible emission and opacity observations conducted in accordance with the monitoring requirements in condition 5.2.2 and the testing requirements in 5.3.3.  
[45CSR13, Permit No. R13-2963 (Condition 6.4.3)]
- 5.4.6. To demonstrate compliance with the flare pilot flame requirements in condition 5.1.11, the permittee shall maintain records of the times and duration of all periods when the pilot flame was absent.  
[40 C.F.R. § 64.9(b); 45CSR13, Permit No. R13-2963 (Condition 6.4.4)]
- 5.4.7. For the purpose of demonstrating compliance with conditions 5.1.11 and 5.3.4, the applicant shall maintain a record of the flare design evaluation. The flare design evaluation shall include, net heat value calculations, exit (tip) velocity calculations, and all supporting concentration calculations and other related information requested by the Director.  
[45CSR13, Permit No. R13-2963 (Condition 6.4.5)]
- 5.4.8. To demonstrate compliance with the requirements of condition 5.1.12 of this permit, the permittee shall follow the recordkeeping requirements for their affected facility subject to VOC requirements for onshore natural gas processing plants.
- a. The permittee must comply with the requirements of condition 5.4.8.b in addition to the requirements of 40 C.F.R. §60.486a.
  - b. The following recordkeeping requirements apply to pressure relief devices subject to the requirements of 40 C.F.R. §60.5401(b)(1) of 40 C.F.R. 60, Subpart OOOO.
    1. When each leak is detected as specified in 40 C.F.R. §60.5401(b)(2), a weatherproof and readily visible identification, marked with the equipment identification number, must be attached to the leaking equipment. The identification on the pressure relief device may be removed after it has been repaired.
    2. When each leak is detected as specified in 40 C.F.R. §60.5401(b)(2), the following information must be recorded in a log and shall be kept for 2 years in a readily accessible location:
      - i. The instrument and operator identification numbers and the equipment identification number.
      - ii. The date the leak was detected and the dates of each attempt to repair the leak.
      - iii. Repair methods applied in each attempt to repair the leak.

- iv. “Above 500 ppm” if the maximum instrument reading measured by the methods specified in condition 5.4.8.a after each repair attempt is 500 ppm or greater.
- v. “Repair delayed” and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.
- vi. The signature of the owner or operator (or designate) whose decision it was that repair could not be effected without a process shutdown.
- vii. The expected date of successful repair of the leak if a leak is not repaired within 15 days.
- viii. Dates of process unit shutdowns that occur while the equipment is unrepaired.
- ix. The date of successful repair of the leak.
- x. A list of identification numbers for equipment that are designated for no detectable emissions under the provisions of 40 C.F.R. §60.482–4a(a). The designation of equipment subject to the provisions of 40 C.F.R. §60.482–4a(a) must be signed by the owner or operator.

**[40 C.F.R. §60.5421; 45CSR16; 45CSR13, Permit No. R13-2963 (Condition 6.4.6)]**

- 5.4.9. To demonstrate compliance with conditions 5.1.13, 5.1.14, and 5.1.16 an owner or operator of a glycol dehydration unit that meets the exemption criteria in 40 C.F.R. §63.764(e)(1)(i) or 40 C.F.R. §63.764(e)(1)(ii) shall maintain the records specified below, as appropriate, for that glycol dehydration unit.
- a. The actual annual average natural gas throughput (in terms of natural gas flowrate to the glycol dehydration unit per day) as determined in accordance with 40 C.F.R. §63.772(b)(1), or
  - b. The actual average benzene emissions (in terms of benzene emissions per year) as determined in accordance with 40 C.F.R. §63.772(b)(2).

**[40 C.F.R. §63.774(d)(1); 45CSR13, Permit No. R13-2963 (Condition 6.4.7)]**

**5.4.10. General recordkeeping requirements for 40 CFR Part 64 (CAM)**

The permittee shall comply with the recordkeeping requirements specified in permit conditions 3.4.1. and 3.4.2. The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR §64.8 (5.2.7) and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR Part 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

**[40 CFR § 64.9(b); 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. Any deviation(s) from the allowable visible emission requirements of conditions 5.1.2 or 5.1.11 for any emission source discovered during observations using 40CFR Part 60, Appendix A, Method 9 or 22 shall be reported in writing to the Director of the Division of Air Quality as soon as practicable, but in any case within ten (10) calendar days of the occurrence and shall include at least 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][45CSR13, Permit No. R13-2963 (Condition 6.5.1)]~~

5.5.2. ~~Reserved The permittee shall submit by March 31<sup>st</sup> of the following year, an emission summary for the dehydration unit, which incorporates the wet gas testing results required by 5.3.1. This report shall include an actual annual average emission estimate for the calendar year of the sample, modeled using GLYCalc V3 or higher software, which incorporates site specific parameters measured in accordance with 5.2.1. The permittee shall also supply all supporting documentation where site specific operating parameters are tabulated to define the annual average values. The report shall also incorporate a copy of the lab analysis obtained from the wet gas testing 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. Additionally, the permittee shall identify where the compressor station is located with respect to a custody transfer point, which is referenced within 40 C.F.R. 63, subpart HH as the point where the gas enters into a natural gas transmission and/or storage pipeline. This report shall be signed by a responsible official upon submittal.~~  
~~[45CSR§30-5.1.c]~~

5.5.3. ~~The permittee shall report any malfunction of the monitoring device in Condition 5.2.13. and any instance in which the dehydration system was operated without the flare.~~  
~~[40 C.F.R. §64.9; 45CSR§30-5.1.c] [F1]~~

5.5.4. ~~Any deviation(s) from the flare design and operation criteria in condition 5.1.11 shall be reported in writing to the Director of the Division of Air Quality as soon as practicable, but in any case within ten (10) calendar days of discovery of such deviation.~~  
~~[45CSR13, Permit No. R13-2963 (Condition 6.5.2)]~~

5.5.5. ~~If the permittee is required by the Director to demonstrate compliance with condition 5.3.4, then the permittee shall submit a testing protocol at least thirty (30) days prior to testing and shall submit a notification of the testing date at least fifteen (15) days prior to testing. The permittee shall submit the testing results within sixty (60) days of testing and provide all supporting calculations and testing data.~~  
~~[45CSR13, Permit No. R13-2963 (Condition 6.5.3)]~~

5.5.6. ~~Reporting requirements for an affected facility subject to VOC requirements for onshore natural gas processing plants.~~

a. ~~The permittee must comply with the requirements of conditions 5.5.6.b and c in addition to the requirements of 40 C.F.R. §§60.487a(a), (b), (c)(2)(i) through (iv), and (c)(2)(vii) through (viii).~~

b. ~~An owner or operator must include the following information in the initial semiannual report in addition to the information required in 40 C.F.R. §§60.487a(b)(1) through (4): Number of pressure relief devices subject to the requirements of 40 C.F.R. §60.5401(b) except for those pressure relief devices designated for no detectable emissions under the provisions of 40 C.F.R. §60.482-4a(a) and those pressure relief devices complying with 40 C.F.R. §60.482-4a(c).~~

- c. An owner or operator must include the following information in all semiannual reports in addition to the information required in 40 C.F.R. §§60.487a(c)(2)(i) through (vi):
  - 1. Number of pressure relief devices for which leaks were detected as required in 40 C.F.R. §60.5401(b)(2); and
  - 2. Number of pressure relief devices for which leaks were not repaired as required in 40 C.F.R. §60.5401(b)(3).

**[40 C.F.R. §60.5422; 45CSR16; 45CSR13, Permit No. R13-2963 (Condition 6.5.4)]**

5.5.7. Each owner or operator of a source subject to 40 C.F.R. 63, Subpart HH shall submit a Notification of Compliance Status Report as required under 40 C.F.R. §63.9(h) within 180 days after the compliance date specified in 40 C.F.R. §63.760(f). In addition to the information required under 40 C.F.R. §63.9(h), the Notification of Compliance Status Report shall include the information specified in paragraphs (a) through (l) of this condition. This information may be submitted in an operating permit application, in an amendment to an operating permit application, in a separate submittal, or in any combination of the three. If all of the information required under this paragraph has been submitted at any time prior to 180 days after the applicable compliance dates specified in 40 C.F.R. §63.760(f), a separate Notification of Compliance Status Report is not required. If an owner or operator submits the information specified in paragraphs (a) through (l) of this condition at different times, and/or different submittals, subsequent submittals may refer to previous submittals instead of duplicating and resubmitting the previously submitted information.

- a. If a closed-vent system and a control device other than a flare are used to comply with 40 C.F.R. §63.764, the owner or operator shall submit the information in paragraph (a)(3) of this condition and the information in either paragraph (a)(1) or (2) of this condition.
  - 1. The condenser design analysis documentation specified in 40 C.F.R. §63.772(e)(4) of 40 C.F.R. 63, Subpart HH, if the owner or operator elects to prepare a design analysis.
  - 2. If the owner or operator is required to conduct a performance test, the performance test results including the information specified in paragraphs (a)(2)(i) and (ii) of this condition. Results of a performance test conducted prior to the compliance date of 40 C.F.R. 63, Subpart HH can be used provided that the test was conducted using the methods specified in 40 C.F.R. §63.772(e)(3) and that the test conditions are representative of current operating conditions. If the owner or operator operates a combustion control device model tested under 40 C.F.R. §63.772(h), an electronic copy of the performance test results shall be submitted via email to Oil and Gas\_PT@EPA.GOV unless the test results for that model of combustion control device are posted at the following Web site: [epa.gov/airquality/oilandgas/](http://epa.gov/airquality/oilandgas/)
    - i. The percent reduction of HAP or TOC, or the outlet concentration of HAP or TOC (parts per million by volume on a dry basis), determined as specified in 40 C.F.R. §63.772(e)(3) of 40 C.F.R. 63, Subpart HH; and
    - ii. The value of the monitored parameters specified in 40 C.F.R. §773(d) of 40 C.F.R. 63, Subpart HH, or a site-specific parameter approved by the permitting agency, averaged over the full period of the performance test.
  - 3. The results of the closed-vent system initial inspections performed according to the requirements in 40 C.F.R. §§63.773(c)(2)(i) and (ii).
- b. If a closed-vent system and a flare are used to comply with 40 C.F.R. §63.764, the owner or operator shall submit performance test results including the information in paragraphs (b)(1) and (2) of this

condition. The owner or operator shall also submit the information in paragraph (b)(3) of this condition.

1. All visible emission readings, heat content determinations, flowrate measurements, and exit velocity determinations made during the compliance determination required by 40 C.F.R. §63.772(e)(2) of 40 C.F.R. 63, Subpart HH.
  2. A statement of whether a flame was present at the pilot light over the full period of the compliance determination.
  3. The results of the closed-vent system initial inspections performed according to the requirements in 40 C.F.R. §63.773(c)(2)(i) and (ii).
- c. For each owner or operator subject to the provisions specified in 40 C.F.R. §63.769, the owner or operator shall submit the information required by 40 C.F.R. §61.247(a), except that the initial report required in 40 C.F.R. §61.247(a) shall be submitted as a part of the Notification of Compliance Status. The owner or operator shall also submit the following information:
1. The number of each equipment (e.g., valves, pumps, etc.) excluding equipment in vacuum service, and
  2. Any change in the information submitted in this paragraph shall be provided to the Administrator as a part of subsequent Periodic Reports described in paragraph 40 C.F.R. §63.775(e)(2)(iv).
- d. The owner or operator shall submit one complete test report for each test method used for a particular source.
1. For additional tests performed using the same test method, the results specified in condition 5.5.7.a.2 shall be submitted, but a complete test report is not required.
  2. A complete test report shall include a sampling site description, description of sampling and analysis procedures and any modifications to standard procedures, quality assurance procedures, record of operating conditions during the test, record of preparation of standards, record of calibrations, raw data sheets for field sampling, raw data sheets for field and laboratory analyses, documentation of calculations, and any other information required by the test method.
- e. For each control device other than a flare used to meet the requirements of 40 C.F.R. §63.764, the owner or operator shall submit the following information for each operating parameter required to be monitored in accordance with the requirements of 40 C.F.R. §63.773(d).
1. The minimum operating parameter value or maximum operating parameter value, as appropriate for the control device, established by the owner or operator to define the conditions at which the control device must be operated to continuously achieve the applicable performance requirements of 40 C.F.R. §63.771(d)(1) or (e)(3)(ii).
  2. An explanation of the rationale for why the owner or operator selected each of the operating parameter values established in 40 C.F.R. §63.773(d)(5). This explanation shall include any data and calculations used to develop the value and a description of why the chosen value indicates that the control device is operating in accordance with the applicable requirements of 40 C.F.R. § 63.771(d)(1), (e)(3)(ii) or (f)(1).
  3. A definition of the source's operating day for purposes of determining daily average values of monitored parameters. The definition shall specify the times at which an operating day begins and ends.

4. For each carbon adsorber, the predetermined carbon replacement schedule as required in 40 C.F.R. §63.771(d)(5)(i).
- f. Results of any continuous monitoring system performance evaluations shall be included in the Notification of Compliance Status Report.
- g. After a title V permit has been issued to the owner or operator of an affected source, the owner or operator of such source shall comply with all requirements for compliance status reports contained in the source's title V permit, including reports required under 40 C.F.R. 63, Subpart HH. After a title V permit has been issued to the owner or operator of an affected source, and each time a notification of compliance status is required under 40 C.F.R. 63, Subpart HH, the owner or operator of such source shall submit the notification of compliance status to the appropriate permitting authority following completion of the relevant compliance demonstration activity specified in 40 C.F.R. 63, Subpart HH.
- h. The owner or operator that elects to comply with the requirements of 40 C.F.R. §63.765(b)(1)(ii) shall submit the records required under 40 C.F.R. §63.774(c).
- i. The owner or operator shall submit the analysis performed under 40 C.F.R. §63.760(a)(1).
- j. The owner or operator shall submit a statement as to whether the source has complied with the requirements of 40 C.F.R. 63, Subpart HH.
- k. The owner or operator shall submit the analysis prepared under 40 C.F.R. §63.771(e)(2) to demonstrate the conditions by which the facility will be operated to achieve the HAP emission reduction of 95.0 percent, or the BTEX limit in 40 C.F.R. §63.765(b)(1)(iii), through process modifications or a combination of process modifications and one or more control devices.
- l. If a cover is installed to comply with 40 C.F.R. §63.764, the results of the initial inspection performed according to the requirements specified in 40 C.F.R. §63.773(c)(2)(iii).
- m. If the owner or operator installs a combustion control device model tested under the procedures in 40 C.F.R. §63.772(h), the data listed under 40 C.F.R. §63.772(h)(8).
- n. For each combustion control device model tested under 40 C.F.R. §63.772(h), the following information:
  1. Name, address and telephone number of the control device manufacturer.
  2. Control device model number.
  3. Control device serial number.
  4. Date the model of control device was tested by the manufacturer.
  5. Manufacturer's HAP destruction efficiency rating.
  6. Control device operating parameters, maximum allowable inlet gas flowrate.

**[40 C.F.R. § 63.775(d); 45CSR13, Permit No. R13-2963 (Condition 6.5.5)]**

- 5.5.8. Notification of process change. Whenever a process change is made, or a change in any of the information submitted in the Notification of Compliance Status Report, the owner or operator shall submit a report within 180 days after the process change is made or as a part of the next Periodic Report as required under 40 C.F.R. §63.775(e), whichever is sooner. The report shall include:

- a. A brief description of the process change;
- b. A description of any modification to standard procedures or quality assurance procedures;
- c. Revisions to any of the information reported in the original Notification of Compliance Status Report; and
- d. Information required by the Notification of Compliance Status Report under 5.5.7 for changes involving the addition of processes or equipment.

**[40 C.F.R. §63.775(f); 45CSR13, Permit No. R13-2963 (Condition 6.5.6)]**

**5.5.9. Electronic reporting.**

- a. Within 60 days after the date of completing each performance test (defined in § 63.2) as required by 40 C.F.R. 63, Subpart HH the permittee must submit the results of the performance tests required by 40 C.F.R. 63, Subpart HH to EPA's WebFIRE database by using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) ( [www.epa.gov/cdx](http://www.epa.gov/cdx) ). Performance test data must be submitted in the file format generated through use of EPA's Electronic Reporting Tool (ERT) (see <http://www.epa.gov/ttn/chief/ert/index.html> ). Only data collected using test methods on the ERT Web site are subject to this requirement for submitting reports electronically to WebFIRE. Owners or operators who claim that some of the information being submitted for performance tests is confidential business information (CBI) must submit a complete ERT file including information claimed to be CBI on a compact disk or other commonly used electronic storage media (including, but not limited to, flash drives) to EPA. The electronic media must be clearly marked as CBI and mailed to U.S. EPA/OAQPS/CORE CBI Office, Attention: WebFIRE Administrator, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same ERT file with the CBI omitted must be submitted to EPA via CDX as described earlier in this paragraph. At the discretion of the delegated authority, the permittee must also submit these reports, including the confidential business information, to the delegated authority in the format specified by the delegated authority.
- b. All reports required by 40 C.F.R. 63, Subpart HH not subject to the requirements in paragraph (a) of this condition must be sent to the Administrator at the appropriate address listed in § 63.13. The Administrator or the delegated authority may request a report in any form suitable for the specific case (e.g., by commonly used electronic media such as Excel spreadsheet, on CD or hard copy). The Administrator retains the right to require submittal of reports subject to paragraph (a) of this condition in paper format.

**[40 C.F.R. §63.775(g); 45CSR13, Permit No. R13-2963 (Condition 6.5.7)]**

**5.5.10. General reporting requirements for 40 C.F.R. Part 64 (CAM)**

- a. On and after the date specified in 40 CFR §64.7(a) by which the permittee must use monitoring that meets the requirements of 40 CFR 64, the permittee shall submit CAM monitoring reports with the semi-annual monitoring report under permit condition 3.5.6. Incorporation by reference within the semi-annual monitoring report is not acceptable.

b. A report for monitoring under 40 CFR 64 shall include, at a minimum, the information required under permit condition 3.5.8. and the following information, as applicable:

1. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
2. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
3. A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR §64.8. Upon completion of a QIP, the permittee shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

[40 CFR § 64.9(a); 45CSR§30-5.1.c.]

## **5.6. Compliance Plan**

5.6.1. N/A

**6.0. Source-Specific Requirements [EN01, EN02, CPR01]**

**6.1 Limitations and Standards**

6.1.1. As stated in 40 C.F.R. §63.6603, the permittee must comply with the following requirements from Table 2d 40 C.F.R. 63, Subpart ZZZZ for existing stationary RICE located at area sources of HAP emissions:

<b>For each . . .</b>	<b>The permittee must meet the following requirements, except during periods of startup . . .</b>
Non-emergency, non-black start 2SLB stationary RICE (EN01, EN02)	Change oil and filter every 4,320 hours of operation or annually, whichever comes first; <sup>1</sup>
	Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first; and
	Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.
Non-emergency, non-black start 4SRB stationary RICE ≤500 HP (CPR01)	Change oil and filter every 1,440 hours of operation or annually, whichever comes first; <sup>1</sup>
	Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and
	Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.

<sup>1</sup>Sources have the option to utilize an oil analysis program as described in 40 C.F.R. §63.6625(i) in order to extend the specified oil change requirement in Table 2d of this subpart.

**[40 C.F.R. § 63.6603(a), and Table 2d]**

6.1.2. The permittee must comply with the applicable emission limitations and operating limitations in this section no later than October 19, 2013.

**[40 C.F.R. § 63.6595(a)]**

6.1.3. The permittee shall comply with the following requirements:

- a. The permittee must be in compliance with the emission limitations and operating limitations in this subpart that apply to the permittee at all times.
- b. At all times the permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if required levels have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

**[40 C.F.R. § 63.6605]**

6.1.4. The permittee shall demonstrate continuous compliance by doing the following:

- a. The permittee must demonstrate continuous compliance with each emission limitation and operating limitation in Table 2d to 40 C.F.R. 63, Subpart ZZZZ that apply to the permittee according to methods specified in Table 6 to 40 C.F.R. 63, Subpart ZZZZ.

Table 6 states that for work or management practices the permittee shall operate and maintain the stationary RICE according to the manufacture's emission related operation and maintenance instructions; or develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

- b. The permittee must report each instance in which you did not meet each emission limitation or operating limitation in and Table 2d to 40 C.F.R. 63, Subpart ZZZZ that apply. These instances are deviations from the emission and operating limitations. These deviations must be reported according to the requirements in 40 C.F.R. §63.6650.
- c. The permittee must also report each instance in which the applicable requirements in Table 8 to 40 C.F.R. 63, Subpart ZZZZ were not met.

**[40 C.F.R. §§ 63.6640(a), (b), and (e), Equipment ID (EN01 & EN02)]**

- 6.1.5. The permittee shall comply with all General Provisions which apply according to Table 8 to 40 C.F.R., Part 63, Subpart ZZZZ.

**[40 C.F.R. § 63.6665]**

## **6.2. Monitoring Requirements**

- 6.2.1. This facility is subject to the following requirements:

- a. The permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:  
[40 C.F.R. §63.6625(e)(5)]
- b. If the permittee operates a new, reconstructed, or existing stationary engine, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to 40 C.F.R., Part 63, Subpart ZZZZ apply.  
[40 C.F.R. §63.6625(h)]
- c. If the permittee owns or operates a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to 40 C.F.R., Part 63, Subpart ZZZZ or in items 5, 6, 7, 9, or 11 of Table 2d to 40 C.F.R., Part 63, Subpart ZZZZ, the permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to 40 C.F.R., Part 63, Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to 40 C.F.R., Part 63, Subpart ZZZZ. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil

when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[40 C.F.R. §63.6625(j)]

**[40 C.F.R. § 63.6625]**

**6.3. Testing Requirements**

6.3.1. Reserved

**6.4. Recordkeeping Requirements**

6.4.1. If the permittee must comply with the emission and operating limitations, the permittee must keep the following records:

- a. A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status 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 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.

**[40 CFR §63.6655(a)]**

6.4.2. The permittee must keep records of the maintenance conducted on each stationary RICE in order to demonstrate that the permittee operated and maintained each stationary RICE and after-treatment control device (if any) according to the permittee's own maintenance plan.

**[40 CFR §63.6655(e)]**

6.4.3. Records of the monitoring required in Condition 6.2.1. shall be kept.

**[40 CFR §63.6655(d)]**

**6.5. Reporting Requirements**

6.5.1. Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR §70.6(a)(3)(iii)(A) or 40 CFR §71.6(a)(3)(iii)(A). If an affected source submits a Compliance report

pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR §70.6(a)(3)(iii)(A) or 40 CFR §71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.

**[40 CFR §63.6650(f)]**

- 6.5.2. For each deviation from an emission or operating limitation that occurs for a stationary RICE not using a CMS to comply with the emission or operating limitations in 40 C.F.R. 63, Subpart ZZZZ, the Compliance report must contain the information specified in 40 CFR §§ 63.6650(c)(1) through (4) in addition to the following information:
- a. The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
  - b. Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

**[40 CFR §63.6650(d)]**

**6.6. Compliance Plan**

- 6.6.1. N/A

## 7.0. Emergency Generators [emission point ID(s): EG01 & EG02]

### 7.1. Limitations and Standards

7.1.1. Sections 5 and 8 of Class II General Permit G60-C apply to the emergency generators. [45CSR13, Permit No. G60-C041]

7.1.2. Maximum emissions to the atmosphere for each Emergency Generator shall not exceed the following values:

<u>Pollutant</u>	<u>Maximum Hourly Emissions (lb/hr)</u>	<u>Maximum Annual Emissions (tpy)</u>
<u>CO</u>	<u>0.39</u>	<u>0.10</u>
<u>NO<sub>x</sub></u>	<u>0.03</u>	<u>0.01</u>
<u>VOCs</u>	<u>0.19</u>	<u>0.05</u>
<u>SO<sub>2</sub></u>	<u>&lt;0.01</u>	<u>&lt;0.01</u>
<u>PM<sub>10</sub></u>	<u>0.02</u>	<u>&lt;0.01</u>
<u>Formaldehyde</u>	<u>0.03</u>	<u>0.01</u>

[45CSR13, Permit No. G60-C041]

### 7.2. Monitoring Requirements

7.2.1. Monitoring requirements shall be based on requirements set forth in Class II General Permit G60-C (Attachment C).

### 7.3. Testing Requirements

7.3.1. Testing requirements shall be based on requirements set forth in Class II General Permit G60-C (Attachment C).

### 7.4. Recordkeeping Requirements

7.4.1. Recordkeeping requirements shall be based on requirements set forth in Class II General Permit G60-C (Attachment C).

### 7.5. Reporting Requirements

7.5.1. Reporting requirements shall be based on requirements set forth in Class II General Permit G60-C (Attachment C).

### 7.6. Compliance Plan

7.6.1. None

**ATTACHMENT A**  
**Table 3 to Subpart OOOO of Part 60—Applicability of General Provisions to Subpart OOOO**

As stated in § 60.5425, the permittee must comply with the following applicable General Provisions:

<u>General provisions citation</u>	<u>Subject of citation</u>	<u>Applies to subpart?</u>	<u>Explanation</u>
<a href="#">§ 60.1</a>	<a href="#">General applicability of the General Provisions</a>	<a href="#">Yes.</a>	
<a href="#">§ 60.2</a>	<a href="#">Definitions</a>	<a href="#">Yes</a>	<a href="#">Additional terms defined in § 60.5430.</a>
<a href="#">§ 60.3</a>	<a href="#">Units and abbreviations</a>	<a href="#">Yes.</a>	
<a href="#">§ 60.4</a>	<a href="#">Address</a>	<a href="#">Yes.</a>	
<a href="#">§ 60.5</a>	<a href="#">Determination of construction or modification</a>	<a href="#">Yes.</a>	
<a href="#">§ 60.6</a>	<a href="#">Review of plans</a>	<a href="#">Yes.</a>	
<a href="#">§ 60.7</a>	<a href="#">Notification and record keeping</a>	<a href="#">Yes</a>	<a href="#">Except that § 60.7 only applies as specified in § 60.5420(a).</a>
<a href="#">§ 60.8</a>	<a href="#">Performance tests</a>	<a href="#">Yes</a>	<a href="#">Performance testing is required for control devices used on storage vessels and centrifugal compressors.</a>
<a href="#">§ 60.9</a>	<a href="#">Availability of information</a>	<a href="#">Yes.</a>	
<a href="#">§ 60.10</a>	<a href="#">State authority</a>	<a href="#">Yes.</a>	
<a href="#">§ 60.11</a>	<a href="#">Compliance with standards and maintenance requirements</a>	<a href="#">No</a>	<a href="#">Requirements are specified in subpart OOOO.</a>
<a href="#">§ 60.12</a>	<a href="#">Circumvention</a>	<a href="#">Yes.</a>	
<a href="#">§ 60.13</a>	<a href="#">Monitoring requirements</a>	<a href="#">Yes</a>	<a href="#">Continuous monitors are required for storage vessels.</a>
<a href="#">§ 60.14</a>	<a href="#">Modification</a>	<a href="#">Yes.</a>	
<a href="#">§ 60.15</a>	<a href="#">Reconstruction</a>	<a href="#">Yes.</a>	
<a href="#">§ 60.16</a>	<a href="#">Priority list</a>	<a href="#">Yes.</a>	
<a href="#">§ 60.17</a>	<a href="#">Incorporations by reference</a>	<a href="#">Yes.</a>	
<a href="#">§ 60.18</a>	<a href="#">General control device requirements</a>	<a href="#">Yes</a>	<a href="#">Except that § 60.18 does not apply to flares.</a>
<a href="#">§ 60.19</a>	<a href="#">General notification and reporting requirement</a>	<a href="#">Yes.</a>	

**ATTACHMENT B**

**Table 2 to Subpart HH of Part 63—Applicability of 40 CFR Part 63 General Provisions to Subpart HH**

<u>General provisions reference</u>	<u>Applicable to subpart HH</u>	<u>Explanation</u>
<a href="#">§ 63.1(a)(1)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.1(a)(2)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.1(a)(3)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.1(a)(4)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.1(a)(5)</a>	<a href="#">No</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.1(a)(6)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.1(a)(7) through (a)(9)</a>	<a href="#">No</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.1(a)(10)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.1(a)(11)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.1(a)(12)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.1(b)(1)</a>	<a href="#">No</a>	<a href="#">Subpart HH specifies applicability.</a>
<a href="#">§ 63.1(b)(2)</a>	<a href="#">No</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.1(b)(3)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.1(c)(1)</a>	<a href="#">No</a>	<a href="#">Subpart HH specifies applicability.</a>
<a href="#">§ 63.1(c)(2)</a>	<a href="#">Yes</a>	<a href="#">Subpart HH exempts area sources from the requirement to obtain a Title V permit unless otherwise required by law as specified in § 63.760(h).</a>
<a href="#">§ 63.1(c)(3) and (c)(4)</a>	<a href="#">No</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.1(c)(5)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.1(d)</a>	<a href="#">No</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.1(e)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.2</a>	<a href="#">Yes</a>	<a href="#">Except definition of major source is unique for this source category and there are additional definitions in subpart HH.</a>
<a href="#">§ 63.3(a) through (c)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.4(a)(1) through (a)(2)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.4(a)(3) through (a)(5)</a>	<a href="#">No</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.4(b)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.4(c)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.5(a)(1)</a>	<a href="#">Yes.</a>	

<u>General provisions reference</u>	<u>Applicable to subpart HH</u>	<u>Explanation</u>
<a href="#">§ 63.5(a)(2)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.5(b)(1)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.5(b)(2)</a>	<a href="#">No</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.5(b)(3)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.5(b)(4)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.5(b)(5)</a>	<a href="#">No</a>	<a href="#">Section Reserved.</a>
<a href="#">§ 63.5(b)(6)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.5(c)</a>	<a href="#">No</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.5(d)(1)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.5(d)(2)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.5(d)(3)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.5(d)(4)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.5(e)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.5(f)(1)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.5(f)(2)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(a)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(b)(1)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(b)(2)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(b)(3)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(b)(4)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(b)(5)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(b)(6)</a>	<a href="#">No</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.6(b)(7)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(c)(1)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(c)(2)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(c)(3) through (c)(4)</a>	<a href="#">No</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.6(c)(5)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(d)</a>	<a href="#">No</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.6(e)(1)(i)</a>	<a href="#">No</a>	<a href="#">See § 63.764(j) for general duty requirement.</a>

<u>General provisions reference</u>	<u>Applicable to subpart HH</u>	<u>Explanation</u>
<a href="#">§ 63.6(e)(1)(ii)</a>	<a href="#">No.</a>	
<a href="#">§ 63.6(e)(1)(iii)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(e)(2)</a>	<a href="#">No</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.6(e)(3)</a>	<a href="#">No.</a>	
<a href="#">§ 63.6(f)(1)</a>	<a href="#">No.</a>	
<a href="#">§ 63.6(f)(2)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(f)(3)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(g)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(h)(1)</a>	<a href="#">No.</a>	
<a href="#">§ 63.6(h)(2) through (h)(9)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(i)(1) through (i)(14)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(i)(15)</a>	<a href="#">No</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.6(i)(16)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.6(j)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.7(a)(1)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.7(a)(2)</a>	<a href="#">Yes</a>	<a href="#">But the performance test results must be submitted within 180 days after the compliance date.</a>
<a href="#">§ 63.7(a)(3)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.7(a)(4)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.7(c)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.7(d)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.7(e)(1)</a>	<a href="#">No.</a>	
<a href="#">§ 63.7(e)(2)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.7(e)(3)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.7(e)(4)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.7(f)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.7(g)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.7(h)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(a)(1)</a>	<a href="#">Yes.</a>	

<u>General provisions reference</u>	<u>Applicable to subpart HH</u>	<u>Explanation</u>
<a href="#">§ 63.8(a)(2)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(a)(3)</a>	<a href="#">No</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.8(a)(4)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(b)(1)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(b)(2)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(b)(3)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(c)(1)</a>	<a href="#">No.</a>	
<a href="#">§ 63.8(c)(1)(i)</a>	<a href="#">No.</a>	
<a href="#">§ 63.8(c)(1)(ii)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(c)(1)(iii)</a>	<a href="#">No.</a>	
<a href="#">§ 63.8(c)(2)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(c)(3)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(c)(4)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(c)(4)(i)</a>	<a href="#">No</a>	<a href="#">Subpart HH does not require continuous opacity monitors.</a>
<a href="#">§ 63.8(c)(4)(ii)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(c)(5) through (c)(8)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(d)(1)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(d)(2)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(d)(3)</a>	<a href="#">Yes</a>	<a href="#">Except for last sentence, which refers to an SSM plan. SSM plans are not required.</a>
<a href="#">§ 63.8(e)</a>	<a href="#">Yes</a>	<a href="#">Subpart HH does not specifically require continuous emissions monitor performance evaluation, however, the Administrator can request that one be conducted.</a>
<a href="#">§ 63.8(f)(1) through (f)(5)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(f)(6)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.8(g)</a>	<a href="#">No</a>	<a href="#">Subpart HH specifies continuous monitoring system data reduction requirements.</a>
<a href="#">§ 63.9(a)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.9(b)(1)</a>	<a href="#">Yes.</a>	

<u>General provisions reference</u>	<u>Applicable to subpart HH</u>	<u>Explanation</u>
<a href="#">§ 63.9(b)(2)</a>	<u>Yes</u>	<a href="#">Existing sources are given 1 year (rather than 120 days) to submit this notification. Major and area sources that meet § 63.764(e) do not have to submit initial notifications.</a>
<a href="#">§ 63.9(b)(3)</a>	<u>No</u>	<a href="#">Section reserved.</a>
<a href="#">§ 63.9(b)(4)</a>	<u>Yes.</u>	
<a href="#">§ 63.9(b)(5)</a>	<u>Yes.</u>	
<a href="#">§ 63.9(c)</a>	<u>Yes.</u>	
<a href="#">§ 63.9(d)</a>	<u>Yes.</u>	
<a href="#">§ 63.9(e)</a>	<u>Yes.</u>	
<a href="#">§ 63.9(f)</a>	<u>Yes.</u>	
<a href="#">§ 63.9(g)</a>	<u>Yes.</u>	
<a href="#">§ 63.9(h)(1) through (h)(3)</a>	<u>Yes</u>	<a href="#">Area sources located outside UA plus offset and UC boundaries are not required to submit notifications of compliance status.</a>
<a href="#">§ 63.9(h)(4)</a>	<u>No</u>	<a href="#">Section reserved.</a>
<a href="#">§ 63.9(h)(5) through (h)(6)</a>	<u>Yes.</u>	
<a href="#">§ 63.9(i)</a>	<u>Yes.</u>	
<a href="#">§ 63.9(j)</a>	<u>Yes.</u>	
<a href="#">§ 63.10(a)</a>	<u>Yes.</u>	
<a href="#">§ 63.10(b)(1)</a>	<u>Yes</u>	<a href="#">§ 63.774(b)(1) requires sources to maintain the most recent 12 months of data on-site and allows offsite storage for the remaining 4 years of data.</a>
<a href="#">§ 63.10(b)(2)</a>	<u>Yes.</u>	
<a href="#">§ 63.10(b)(2)(i)</a>	<u>No.</u>	
<a href="#">§ 63.10(b)(2)(ii)</a>	<u>No</u>	<a href="#">See § 63.774(g) for recordkeeping of (1) occurrence and duration and (2) actions taken during malfunctions.</a>
<a href="#">§ 63.10(b)(2)(iii)</a>	<u>Yes.</u>	
<a href="#">§ 63.10(b)(2)(iv) through (b)(2)(v)</a>	<u>No.</u>	
<a href="#">§ 63.10(b)(2)(vi) through (b)(2)(xiv)</a>	<u>Yes.</u>	
<a href="#">§ 63.10(b)(3)</a>	<u>Yes</u>	<a href="#">§ 63.774(b)(1) requires sources to maintain the most recent 12 months of data on-site and allows offsite storage for the remaining 4 years of data.</a>
<a href="#">§ 63.10(c)(1)</a>	<u>Yes.</u>	
<a href="#">§ 63.10(c)(2) through</a>	<u>No</u>	<a href="#">Sections reserved.</a>

<u>General provisions reference</u>	<u>Applicable to subpart HH</u>	<u>Explanation</u>
<a href="#">(c)(4)</a>		
<a href="#">§ 63.10(c)(5) through (c)(8)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.10(c)(9)</a>	<a href="#">No</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.10(c)(10) through (11)</a>	<a href="#">No</a>	<a href="#">See § 63.774(g) for recordkeeping of malfunctions.</a>
<a href="#">§ 63.10(c)(12) through (14)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.10(c)(15)</a>	<a href="#">No.</a>	
<a href="#">§ 63.10(d)(1)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.10(d)(2)</a>	<a href="#">Yes</a>	<a href="#">Area sources located outside UA plus offset and UC boundaries do not have to submit performance test reports.</a>
<a href="#">§ 63.10(d)(3)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.10(d)(4)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.10(d)(5)</a>	<a href="#">No</a>	<a href="#">See § 63.775(b)(6) or (c)(6) for reporting of malfunctions.</a>
<a href="#">§ 63.10(e)(1)</a>	<a href="#">Yes</a>	<a href="#">Area sources located outside UA plus offset and UC boundaries are not required to submit reports.</a>
<a href="#">§ 63.10(e)(2)</a>	<a href="#">Yes</a>	<a href="#">Area sources located outside UA plus offset and UC boundaries are not required to submit reports.</a>
<a href="#">§ 63.10(e)(3)(i)</a>	<a href="#">Yes</a>	<a href="#">Subpart HH requires major sources to submit Periodic Reports semi-annually. Area sources are required to submit Periodic Reports annually. Area sources located outside UA plus offset and UC boundaries are not required to submit reports.</a>
<a href="#">§ 63.10(e)(3)(i)(A)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.10(e)(3)(i)(B)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.10(e)(3)(i)(C)</a>	<a href="#">No.</a>	
<a href="#">§ 63.10(e)(3)(i)(D)</a>	<a href="#">Yes</a>	<a href="#">Section reserved.</a>
<a href="#">§ 63.10(e)(3)(ii) through (viii)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.10(e)(4)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.10(f)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.11(a) and (b)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.11(c), (d), and (e)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.12(a) through (c)</a>	<a href="#">Yes.</a>	

<u>General provisions reference</u>	<u>Applicable to subpart HH</u>	<u>Explanation</u>
<a href="#">§ 63.13(a) through (c)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.14(a) through (q)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.15(a) and (b)</a>	<a href="#">Yes.</a>	
<a href="#">§ 63.16</a>	<a href="#">Yes.</a>	

[64 FR 32628, June 17, 1999, as amended at 66 FR 34554, June 29, 2001; 71 FR 20457, Apr. 20, 2006; 72 FR 40, Jan. 3, 2007; 73 FR 78214, Dec. 22, 2008; 77 FR 49581, Aug. 16, 2012]

## [Attachment C: Class II General Permit G60-C](#)