

West Virginia Department of Environmental Protection

Harold D. Ward  
Cabinet Secretary

# Title V Operating Permit Revision

## For Minor Modification Permitting Action Under 45CSR30 and Title V of the Clean Air Act

**Permit Action Number:** MM02 **SIC:** 4922  
**Name of Permittee:** Columbia Gas Transmission, LLC  
**Facility Name/Location:** Terra Alta Compressor Station  
**County:** Preston  
**Permittee Mailing Address:** 1700 MacCorkle Avenue, SE, 5th Floor, Charleston, WV 25314

**Description of Permit Revision:** This minor modification incorporates the revisions made in R13-3431F for the removal of an existing grandfathered heater, installation of a new heater, update to an existing RICE (E07) to match nameplate horsepower, update to the blowdown volumes and update to five (5) storage vessel descriptions.

**Title V Permit Information:**

**Permit Number:** R30-07700017-2022  
**Issued Date:** October 11, 2022  
**Effective Date:** October 25, 2022  
**Expiration Date:** October 11, 2027

**Directions to Facility:**

From I-79, take State Route 7 east to Terra Alta. Traveling east on State Route 7 to the town of Terra Alta, turn right onto Secondary Route 53. Proceed approximately 2 miles to the station which is located on the right.

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THIS PERMIT REVISION IS ISSUED IN ACCORDANCE WITH THE WEST VIRGINIA AIR POLLUTION CONTROL ACT (W.VA. CODE §§ 22-5-1 ET SEQ.) AND 45CSR30 - "REQUIREMENTS FOR OPERATING PERMITS." THE PERMITTEE IDENTIFIED AT THE FACILITY ABOVE IS AUTHORIZED TO OPERATE THE STATIONARY SOURCES OF AIR POLLUTANTS IDENTIFIED HEREIN IN ACCORDANCE WITH ALL TERMS AND CONDITIONS OF THIS PERMIT.



Laura M.  
Crowder

Laura M. Crowder  
Director, Division of Air Quality

Digitally signed by: Laura M. Crowder  
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Date: 2024.11.06 23:18:48 -0500

November 6, 2024

Date Issued

Permit Number: **R30-07700017-2022**  
Permittee: **Columbia Gas Transmission, LLC**  
Facility Name: **Terra Alta Compressor Station**  
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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:	Terra Alta, Preston County, West Virginia
Facility Mailing Address:	8251 Aurora Pike, Terra Alta, WV 26764
Telephone Number:	(304) 357-2047
Type of Business Entity:	LLC
Facility Description:	Natural Gas Transmission Facility
SIC Codes:	Primary 4922; Secondary NA; Tertiary NA
UTM Coordinates:	625.137 km Easting • 4364.582 km Northing • Zone 17

Permit Writer: Dan Roberts

*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
BLR3*	BL3	Heating System Boiler; Peerless Model # 211A-21	2001	3.57 mmBtu/hr	N/A
HTR5*	H5	Zone 6 Indirect-fired Line Heater; Bryant Inc Serial # 21031F	1981	1.0 mmBtu/hr	N/A
<del>HTR6*</del>	<del>H6</del>	<del>Contact tower Regen. Heater John Zink Model VPM-RA30</del>	<del>1959</del>	<del>3.0 mmBtu/hr</del>	<del>N/A</del>
HTR7*	H7	Teri 10000 Line Heater	2020	11.07 mmBtu/hr	N/A
HTR8*	H8	Teri 16000 Line Heater	2020	15.22 mmBtu/hr	N/A
HTR9*	H9	Teri 16000 Line Heater	2020	15.22 mmBtu/hr	N/A
<a href="#">HTR10*</a>	<a href="#">H10</a>	<a href="#">Direct-Fired Regeneration Heater</a>	<a href="#">2024</a>	<a href="#">15.00 MMBtu/hr</a>	<a href="#">N/A</a>
04901*	E01	Reciprocating Engine/Integral Compressor; Clark TRA-6; 2-cycle, lean burn	1960	1,100 HP	N/A
04902*	E02	Reciprocating Engine/Integral Compressor; Clark TRA-6; 2-cycle, lean burn	1960	1,100 HP	N/A
04903*	E03	Reciprocating Engine/Integral Compressor; Clark TRA-6; 2-cycle, lean burn	1960	1,100 HP	N/A
04904*	E04	Reciprocating Engine/Integral Compressor; Clark TRA-6; 2-cycle, lean burn	1960	1,100 HP	N/A
04905*	E05	Reciprocating Engine/Integral Compressor; Clark TRA-6; 2-cycle, lean burn	1970	1,100 HP	N/A
04907*	E07	Reciprocating Engine/Dehy Compressor; Waukesha F11GSIU; 4-cycle, rich burn	2004	<del>239</del> 174 HP	C1 Catalyst
C-10	N/A	Electric Motor Drive Reciprocating Compressor	2022	2,250 hp	N/A
C-20	N/A	Electric Motor Drive Reciprocating Compressor	2022	2,250 hp	N/A
C-30	N/A	Electric Motor Drive Reciprocating Compressor	2022	2,250 hp	N/A
049G3*	G3	Reciprocating Engine/Generator, Waukesha VGFH24GL; 4-cycle, lean burn; emergency	2019 (Mfg. 2008)	530 HP	N/A
A-33	E-33	Methanol Tank	2020	10,000 gal	None
A-34	E-34	Methanol Tank	2020	7,500 gal	None
A-09	E-09	<a href="#">Pipeline Liquids</a> <del>Produced-Fluid</del> Tank	1990	30,000 gal	None

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
A-10	E-10	<del>Pipeline Liquids Produced Fluid</del> Tank	1990	30,000 gal	None
A-11	E-11	<del>Pipeline Liquids Produced Fluid</del> Tank	1990	30,000 gal	None
A-12	E-12	<del>Pipeline Liquids Produced Fluid</del> Tank	1990	30,000 gal	None
A-13	E-13	<del>Pipeline Liquids Produced Fluid</del> Tank	1990	30,000 gal	None
LR-1	LR-1	Loading Rack	1990	450,000 gal/yr	None

\* All combustion equipment burns 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.

Permit Number	Date of Issuance
R13-3431 <del>E</del>	<del>August 20, 2024</del> <del>January 31, 2023</del>

## 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 other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.39.). 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 not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 45CSR§§30-6.6.a.1.A. or B.
  - b. Additional requirements (including excess emissions requirements) become applicable to an affected source under Title IV of the Clean Air Act (Acid Deposition Control) or other legislative rules of the Secretary. Upon approval by U.S. EPA, excess emissions offset plans shall be incorporated into the permit.
  - c. The Secretary or U.S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
  - d. The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.

**[45CSR§30-6.6.a.]**

## **2.6. Administrative Permit Amendments**

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

## **2.7. Minor Permit Modifications**

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

## **2.8. Significant Permit Modification**

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

## **2.9. Emissions Trading**

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

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

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

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

**[45CSR§30-5.9.]**

## **2.11. Operational Flexibility**

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

**[45CSR§30-5.8]**

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

**[45CSR§30-5.8.a.]**

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

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

**[45CSR§30-5.8.c.]**

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

**[45CSR§30-2.40]**

## 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. Reserved**

## **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.]

## **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)(~~15~~ 14)]
- 3.1.7. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.

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

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

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

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

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

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

### **3.2. Monitoring Requirements**

- 3.2.1. Reserved.

### **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. [If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit shall be revised in accordance with 45CSR§30-6.4 or 45CSR§30-6.5 as applicable.](#)
- 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)(~~15-16~~ ~~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, R13-3431, 4.4.1]

3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records.

[45CSR§30-5.1.c.2.B.]

- 3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.  
**[45CSR§30-5.1.c. State-Enforceable only.]**

### 3.5. Reporting Requirements

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.  
**[45CSR§§30-4.4. and 5.1.c.3.D.]**
- 3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.  
**[45CSR§30-5.1.c.3.E.]**
- 3.5.3. Except for the electronic submittal of the annual compliance certification and semi-annual monitoring reports to the DAQ and USEPA as required in 3.5.5 and 3.5.6 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, or mailed first class or by private carrier with postage prepaid to the address(es), or submitted in electronic format by e-mail as set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

#### DAQ:

Director  
WVDEP  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

#### US EPA:

Section Chief  
U. S. Environmental Protection Agency, Region III  
Enforcement and Compliance Assurance Division  
Air, RCRA and Toxics Branch (3ED21)  
Four Penn Center  
1600 John F. Kennedy Boulevard  
Philadelphia, PA 19103-2852

#### DAQ Compliance and Enforcement<sup>1</sup>:

DEPAirQualityReports@wv.gov

<sup>1</sup>For all self-monitoring reports (MACT, GACT, NSPS, etc.), stack tests and protocols, Notice of Compliance Status reports, Initial Notifications, etc.

- 3.5.4. **Fees.** The permittee shall pay fees on an annual basis in accordance with 45CSR§30-8.  
**[45CSR§30-8.]**
- 3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The permittee shall maintain a copy of the certification on

site for five (5) years from submittal of the certification. The annual certification shall be submitted in electronic format by e-mail to the following addresses:

**DAQ:**  
DEPAirQualityReports@wv.gov

**US EPA:**  
R3\_APD\_Permits@epa.gov

**[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. The semi-annual monitoring reports shall be submitted in electronic format by e-mail to the following address:

**DAQ:**  
DEPAirQualityReports@wv.gov

**[45CSR§30-5.1.c.3.A.]**

- 3.5.7. **Reserved.**

- 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. Reserved.
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 email. 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. During compliance certification, the facility shall certify that the facility burns natural gas in all stationary equipment regulated under this permit except, when applicable, for emergency equipment (i.e. diesel generators).

[45CSR§30-5.1.c.]

### 3.6. Compliance Plan

- 3.6.1. Reserved.

### 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. 45CSR4 - *To Prevent and Control the Discharge of Air Pollutants into the Open Air Which Cause or Contributes to an Objectionable Odor or Odors:* This State Rule shall not apply to the following source of objectionable odor until such time as feasible control methods are developed: Internal combustion engines.
- b. 45CSR21 - *To Prevent and Control Air Pollution from the Emission of Volatile Organic Compounds:* This facility is not located in one of the subject counties defined by this Rule: Wood, Wayne, Putnam, Kanawha, or Cabell.
- c. 45CSR27 - *To Prevent and Control the Emissions of Toxic Air Pollutants:* Natural gas is included as a petroleum product and contains less than 5% benzene by weight. 45CSR§27-2.4 exempts equipment "used in the production and distribution of petroleum products providing that such equipment does not produce or contact materials containing more than 5% benzene by weight."
- d. 40 CFR Part 60 Subpart K and Ka - *Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978 (Subpart K) and After May 18, 1978, and Prior to July 23, 1984 (Subpart Ka):* All tanks at the station are below the applicability criteria of 40,000 gallons in capacity as stated in 40 CFR §60.110(a) and §60.110a(a).
- e. 40 CFR Part 60 Subpart Kb *Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984:* All tanks at the station are less than 75 cubic meters (19,813 gallons) in capacity or are between 75 m<sup>3</sup> (19,813 gallons) and 151 m<sup>3</sup> (39,890 gallons) in capacity storing a liquid with a maximum true vapor pressure less than 15 kPa (112.5 mmHg). Therefore, they are exempt from this subpart as stated in the applicability criteria of 40 CFR §§60.110b(a) and (b).

- f. 40 CFR Part 60 Subpart GG - *Standards of Performance for Stationary Gas Turbines*: The provisions of this subpart are not applicable because there are no turbines installed at this location.
- g. 40 CFR Part 60 Subpart IIII - *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines*: There are no compression ignition engines at this facility.
- h. 40 CFR Part 60 Subpart JJJJ - *Standards of Performance for Stationary Spark Ignition (SI) Internal Combustion Engines*: All non-emergency SI engines located at this site were installed before July 12, 2006. These engines are not subject to 40 CFR Part 60 Subpart JJJJ per 40 CFR §60.4230(a)(4). The emergency SI engine was manufactured before January 1, 2009 and is not subject per 40 CFR §60.4230(a)(4)(iv).
- i. 40 CFR Part 60 Subpart KKK - *Standards of Performance for Equipment Leaks of VOC From Onshore Natural Gas Processing Plants for Which Construction, Reconstruction, or Modification Commenced After January 20, 1984, and on or Before August 23, 2011*: This compressor station is not engaged in the extraction or fractionation of natural gas liquids from field gas, the fractionation of mixed natural gas liquids to natural gas products, or both. As a result, the station has no affected sources operating within this source category.
- j. 40 CFR Part 60 Subpart KKKK - *Standards of Performance for Stationary Turbines*: The provisions of this subpart are not applicable because there are no turbines installed at this location.
- k. 40 CFR Part 60 Subpart OOOO - *Standards of Performance for Crude Oil and Natural Gas Facilities for Which Construction, Modification, or Reconstruction Commenced After August 23, 2011, and on or Before September 18, 2015*: The storage vessel requirements defined for transmission sources are not applicable to this site because all vessels were constructed, modified, or reconstructed prior to August 23, 2011 or after September 18, 2015, in accordance with 40 CFR §60.5365(e).
- l. 40 CFR Part 63 Subpart HHH - *National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities*: The transmission station is not subject to Subpart HHH since there are no affected dehydration units utilized at this site.
- m. 40 CFR Part 63 Subpart YYYY - *National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines*: There are no turbine engines at this facility.
- n. 40 CFR Part 64 – *Compliance Assurance Monitoring*: Most of the facility is exempt per 40 CFR §64.2(a)(2). The only add-on control at this facility is the catalyst on Engine EN07, however it is subject to 40 CFR 63, Subpart ZZZZ and therefore is exempt from this Part 64 in accordance with 40 CFR §64.2(b)(1)(i).

### 3.8. Emergency Operating Scenario

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

- a. The replacement engine(s) is only allowed to operate until repair of the failed engine(s) is complete, but under no circumstance may the replacement engine(s) operate in excess of sixty (60) days;

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

**[45CSR§30-12.7]**

**4.0 ~~Indirect~~ Natural Gas Heaters and Boilers [emission point ID(s): BL3, H5, ~~H6~~, H7, H8, and H9 and H10]**

**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, R13-3431, 5.1.2.] ([BL3, H5, H7, H8 and H9](#))
- 4.1.2. Compliance with the visible emission requirements of 45CSR§2-3.1 (Section 4.1.1 of this permit) shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 or by using measurements from continuous opacity monitoring systems approved by the Director. The Director may require the installation, calibration, maintenance and operation of continuous opacity monitoring systems and may establish policies for the evaluation of continuous opacity monitoring results and the determination of compliance with the visible emission requirements of 45CSR§2-3.1 (Section 4.1.1 of this permit). Continuous opacity monitors shall not be required on fuel burning units which employ wet scrubbing systems for emission control. [45CSR§2-3.2.; 45CSR13, R13-3431, 5.1.2. and 5.3.1.] ([BL3, H5, H7, H8 and H9](#))
- 4.1.3. The boiler and process heaters must meet the requirements in paragraphs 1. and 2. below, except as provided in Conditions 4.1.4. and 4.1.5. You must meet these requirements at all times the affected unit is operating, except as provided in 40 CFR §63.7500(f).
1. You must meet the work practice standard in Table 3, Items 1, 3, and 4, except as provided under 40 CFR §63.7522.

For an existing boiler or process heater located at a major source facility, not including limited use units, the permittee must have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in Table 3 of 40 CFR 63 Subpart DDDDD, satisfies the energy assessment requirement. A facility that operated under an energy management program developed according to the ENERGY STAR guidelines for energy management or compatible with ISO 50001 for at least one year between January 1, 2008 and the compliance date specified in 40 CFR §63.7495 that includes the affected units also satisfies the energy assessment requirement. The energy assessment must include the following with extent of the evaluation for items a. to e. appropriate for the on-site technical hours listed in 40 CFR §63.7575:

- a. A visual inspection of the boiler or process heater system.
- b. An evaluation of operating characteristics of the boiler or process heater systems, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints.
- c. An inventory of major energy use systems consuming energy from affected boilers and process heaters and which are under the control of the boiler/process heater owner/operator.
- d. A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage.
- e. A review of the facility's energy management program and provide recommendations for improvements consistent with the definition of energy management program, if identified.

- f. A list of cost-effective energy conservation measures that are within the facility's control.
  - g. A list of the energy savings potential of the energy conservation measures identified.
  - h. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
2. At all times, you must operate and maintain any affected source (as defined in 40 CFR §63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that 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.

**[45CSR34, 40 CFR§§63.7500(a)(1) and (3), Table 3; 45CSR13, R13-3431, 5.4.2.] ([BL3](#), [H5](#), [H7](#), [H8](#) and [H9](#))**

4.1.4. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity of less than or equal to 5 mmBtu/hr must complete a tune-up every 5 years as specified in 40 CFR §63.7540. **[45CSR34, 40 CFR§§63.7500(a) and (e) and Table 3, Item 1 ([BL3](#), and [H5](#), and [H6](#))]**

4.1.5. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity of 10 mmBtu/hr or greater must complete a tune-up annually as specified in 40 CFR §63.7540. **[45CSR34, 40 CFR§63.7500(a) and Table 3, Item 3 ([H7](#), [H8](#) and [H9](#))]**

4.1.6. a. For existing affected sources (as defined in 40 CFR §63.7490), you must complete an initial tune-up by following the procedures described in 40 CFR §63.7540(a)(10)(i) through (vi) no later than the compliance date specified in 40 CFR §63.7495, except as specified in 40 CFR §63.7510(j). You must complete the one-time energy assessment specified in Table 3 to 40 CFR, subpart DDDDD no later than the compliance date specified in 40 CFR §63.7495 (January 31, 2016). ([BL3](#), and [H5](#), and [H6](#))

b. For new or reconstructed affected sources (as defined in 40 CFR §63.7490) you must demonstrate initial compliance with the applicable work practice standards in Table 3 to this subpart within the applicable annual, biennial, or 5-year schedules as specified in §63.7515(d) following the initial compliance date specified in §63.7495(a). Thereafter, you are required to complete the applicable annual, biennial, or 5-year tune-up as specified in §63.7515(d). ([H7](#), [H8](#), and [H9](#))

**[45CSR34, 40 CFR§§63.7510(e) and (g)]**

4.1.7. If your boiler or process heater has a heat input capacity of 10 million Btu per hour or greater, you must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in 4.1.7.a through f. The permittee must conduct the tune-up while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up.

a. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). At units where entry into a piece of process equipment or into a storage

vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;

- b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
- c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown).
- d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO<sub>x</sub> requirement to which the unit is subject;
- e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and
- f. Maintain on-site and submit, if requested by the Administrator, a report containing the following information:
  1. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;
  2. A description of any corrective actions taken as a part of the tune-up; and
  3. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

**[45CSR34; 40 CFR§63.7540(a)(10); 45CSR13, R13-3431, 5.4.1.; Emission Point IDs (H7, H8 and H9)]**

- 4.1.8. If the permittee's boiler or process heater has a continuous oxygen trim system that maintains an optimum air to fuel ratio, or a heat input capacity of less than or equal to 5 million Btu per hour and the unit is in the units designed to burn gas 1; units designed to burn gas 2 (other); or units designed to burn light liquid subcategories, or meets the definition of limited-use boiler or process heater in 40 CFR §63.7575, the permittee must conduct a tune-up of the boiler or process heater every 5 years as specified in condition 4.1.7. to demonstrate continuous compliance. The permittee may delay the burner inspection specified in condition 4.1.7.a. until the next scheduled or unscheduled unit shutdown, but the permittee must inspect each burner at least once every 72 months. If an oxygen trim system is utilized on a unit without emission standards to reduce the tune-up frequency to once every 5 years, set the oxygen level no lower than the oxygen concentration measured during the most recent tune-up.

**[45CSR34; 40 CFR§63.7540(a)(12), Emission Point IDs (BL3, [and H5](#), ~~and H6~~)]**

- 4.1.9. Maximum Design Heat Input. The maximum design heat input for line heater HTR7 shall not exceed 11.07 MMBtu/hr. The maximum design heat input for each line heater, HTR8 and HTR9, shall not exceed 15.22 MMBtu/hr. [The maximum design heat input for the regeneration heater, HTR10, shall not exceed 15.00 MMBtu/hr.](#)

**[45CSR§13-5.10; 45CSR13, R13-3431, 5.1.1.]**

4.1.10. a. Line heater, HTR7, shall not exceed the following limits:

Pollutant	Emission Limit (lb/hr)	Emission Limit (tpy)
NO <sub>x</sub>	1.09	4.75
CO	0.91	3.99
<del>PM</del> <del>PM<sub>10</sub></del>	<del>1.0</del> <del>0.08</del>	<del>--</del> <del>0.36</del>
VOC	0.06	0.26
SO <sub>2</sub>	<del>35.42</del> <del>0.63</del>	<del>--</del> <del>0.03</del>

~~To demonstrate compliance with Section 4.1.9, the quantity of natural gas that shall be consumed in line heater (HTR7) shall not exceed 10,850 scf/hr cubic feet per hour and 95.05 x 10<sup>6</sup> cubic feet per year.~~

b. Each of the line heaters, HTR8 and HTR9, shall not exceed the following limits:

Pollutant	Emission Limit (lb/hr)	Emission Limit (tpy)
NO <sub>x</sub>	1.49	6.53
CO	1.25	5.49
<del>PM</del> <del>PM<sub>10</sub></del>	<del>1.37</del> <del>0.11</del>	<del>--</del> <del>0.50</del>
VOC	0.08	0.36
SO <sub>2</sub>	<del>48.70</del> <del>0.87</del>	<del>--</del> <del>0.05</del>

~~To demonstrate compliance with Section 4.1.9, the quantity of natural gas that shall be consumed in each line heater (HTR8 and HTR9) shall not exceed 14,918.6 scf/hr cubic feet per hour and 130.69 x 10<sup>6</sup> cubic feet per year.~~

c. Regeneration Heater, HTR10, shall not exceed the following limits:

<u>Pollutant</u>	<u>Emission Limit (lb/hr)</u>	<u>Emission Limit (tpy)</u>
<u>NO<sub>x</sub></u>	<u>1.47</u>	<u>6.44</u>
<u>CO</u>	<u>1.24</u>	<u>5.41</u>
<u>VOC</u>	<u>0.08</u>	<u>0.35</u>

~~The hourly particulate matter and sulfur dioxide emission limits above for HTR7, HTR8 and HTR9 shall demonstrate compliance with the less stringent hourly particulate matter and sulfur dioxide emission limits of 45CSR§2-4.1.b and 45CSR§10-3.3.f.~~

~~[45CSR§13-5.10; 45CSR13, R13-3431, 5.1.3.; 45CSR§2-4.1.2.b. and 45CSR§10-3.3.6. f]~~

4.1.11. Heaters (HTR7, HTR8 and HTR9) are subject to all applicable provisions of 40 CFR 60, Subpart Dc, provided that compliance with any more stringent limitation set forth under this permit shall also be demonstrated. [45CSR§13-5.10; 45CSR13, R13-3431, 5.1.4.]

## 4.2. Monitoring Requirements

4.2.1. At such reasonable times as the Secretary may designate, the permittee shall conduct visible emissions observations using Method 22 for the purpose of demonstrating compliance with Section 4.1.1. If visible emissions are observed, the permittee shall conduct a Method 9 reading unless the cause for visible emissions

is corrected within 24 hours. Records of observation will be kept for at least 5 years from the date of observation.

[45CSR§30-5.1.c.] ([BL3](#), [H5](#), [H7](#), [H8](#) and [H9](#))

- 4.2.2. The permittee shall monitor and record the amount of natural gas consumed by the heaters (HTR7, HTR8 and HTR9) during each operating day.

[45CSR16; 45 CSR §2-8.3.3, ~~e~~, and 40 CFR §60.48c(g)(1); 45CSR13, R13-3431, 5.2.1]

### 4.3. Testing Requirements

- 4.3.1. If you are required to meet an applicable tune-up work practice standard, you must conduct an annual, biennial, or 5-year performance tune-up according to 40 CFR §63.7540(a)(10), (11), or (12), respectively. Each annual tune-up specified in 40 CFR §63.7540(a)(10) must be no more than 13 months after the previous tune-up. Each biennial tune-up specified in 40 CFR §63.7540(a)(11) must be conducted no more than 25 months after the previous tune-up. Each 5-year tune-up specified in 40 CFR §63.7540(a)(12) must be conducted no more than 61 months after the previous tune-up.

[45CSR34, 40 CFR§63.7515(d)] ([BL3](#), [H5](#), [H7](#), [H8](#) and [H9](#))

### 4.4. Recordkeeping Requirements

- 4.4.1. The permittee must keep records according to the following:

A copy of each notification and report that you submitted to comply with 40 CFR, subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in 40 CFR §63.10(b)(2)(xiv).

[45CSR34; 40 CFR§63.7555(a)(1)] ([BL3](#), [H5](#), [H7](#), [H8](#) and [H9](#))

- 4.4.2. The permittee shall maintain records as follows:

- a. Records must be in a form suitable and readily available for expeditious review, according to 40 CFR §63.10(b)(1).
- b. As specified in 40 CFR §63.10(b)(1), the permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- c. The permittee must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR §63.10(b)(1). The permittee may keep the records off site for the remaining 3 years.

[45CSR34; 40 CFR§63.7560] ([BL3](#), [H5](#), [H7](#), [H8](#) and [H9](#))

- 4.4.3. The natural gas consumption records of permit condition 4.2.2. shall be maintained in accordance with permit condition 3.4.2.

[45CSR§13-5.10; 45CSR13, R13-3431, 5.5.2.]

## 4.5. Reporting Requirements

- 4.5.1. The permittee shall demonstrate initial compliance by including with the Notification of Compliance Status a signed certification that either the energy assessment was completed according to Table 3 of 40 CFR 63 subpart DDDDD, and that the assessment is an accurate depiction of your facility at the time of the assessment, or that the maximum number of on-site technical hours specified in the definition of energy assessment applicable to the facility has been expended.

You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR §63.7545(e).

[45CSR34, 40 CFR §§63.7530(e) and (f)] ([BL3, H5, H7, H8 and H9](#))

- 4.5.2. If you are required to conduct an initial compliance demonstration as specified in 40 CFR §63.7530, you must submit a Notification of Compliance Status according to 40 CFR §63.9(h)(2)(ii). For the initial compliance demonstration for each boiler or process heater, you must submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of all performance test and/or other initial compliance demonstrations for all boiler or process heaters at the facility according to 40 CFR §63.10(d)(2). The Notification of Compliance Status report must contain all the information specified in paragraphs 1. and 2. below, as applicable. If you are not required to conduct an initial compliance demonstration as specified in 40 CFR §63.7530(a), the Notification of Compliance Status must only contain the information specified in paragraphs 1. and 2. below and must be submitted within 60 days of the compliance date specified at 40 CFR §63.7495(b).

1. A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with 40 CFR 63, subpart DDDDD, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under §241.3 of this chapter, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of §241.3 of this chapter, and justification for the selection of fuel(s) burned during the compliance demonstration.
2. In addition to the information required in 40 CFR §63.9(h)(2), your notification of compliance status must include the following certification(s) of compliance, as applicable, and signed by a responsible official:
  - i. "This facility completed the required initial tune-up for all of the boilers and process heaters covered by 40 CFR part 63 subpart DDDDD at this site according to the procedures in 40 CFR §63.7540(a)(10)(i) through (vi)."
  - ii. "This facility has had an energy assessment performed according to 40 CFR §63.7530(e)."
  - iii. Except for units that burn only natural gas, refinery gas, or other gas 1 fuel, or units that qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act, include the following: "No secondary materials that are solid waste were combusted in any affected unit."

[45CSR34, 40 CFR §§63.7545(e)(1) & (8)] ([BL3, H5, H7, H8 and H9](#))

- 4.5.3. Unless the EPA Administrator has approved a different schedule for submission of reports under 40 CFR §63.10(a), you must submit each report, according to 40 CFR §63.7550(h), by the date in Table 9 to 40 CFR 63 subpart DDDDD and according to the requirement in the paragraph below. For units that are subject only to a requirement to conduct subsequent annual, biennial, or 5-year tune-up according to 40 CFR §63.7540(a)(10), (11), or (12), respectively, and not subject to emission limits or Table 4 operating limits, you may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in the paragraph below, instead of a semi-annual compliance report.

For each affected source that is subject to permitting regulations pursuant to part 70 or part 71 of this chapter, and if the permitting authority has established dates for submitting semiannual reports pursuant to 70.6(a)(3)(iii)(A) or 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established in the permit instead of according to the dates in paragraphs (b)(1) through (4) of this section.

**[45CSR34, 40 CFR§§63.7550(b) and (b)(5)]** [\(BL3, H5, H7, H8 and H9\)](#)

- 4.5.4. If the facility is subject to the requirements of a tune up you must submit a compliance report with the information in paragraphs i. through v. below.
- i. Company and Facility name and address.
  - ii. Process unit information, emissions limitations, and operating parameter limitations.
  - iii. Date of report and beginning and ending dates of the reporting period.
  - iv. Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up according to 40 CFR §63.7540(a)(10), (11), or (12) respectively. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown.
  - v. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

**[45CSR34, 40 CFR§§63.7550(c)(1), (c)(5)(i) through (iii), (c)(5)(xiv), and (c)(5)(xvii)]** [\(BL3, H5, H7, H8 and H9\)](#)

- 4.5.5. An initial notification of the date of construction of heaters HT7, HTR8 and HTR9 shall be submitted as provided by §60.7 to the address listed in permit condition 3.5.3.

This notification shall include:

- a. The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.
- b. If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §60.42c, or §60.43c.
- c. The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

- d. Notification if an emerging technology will be used for controlling SO<sub>2</sub> emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the owner or operator of the affected facility to submit additional information concerning the control device. The affected facility is subject to the provisions of §60.42c(a) or (b)(1), unless and until this determination is made by the Administrator.

**[45CSR16; 40CFR§60.48c(a); 45CSR13, R13-3431, 5.5.1.]**

- 4.5.6. Recordkeeping and reporting requirements shall be conducted in accordance with 60.48c. These reports shall be submitted in accordance with the timelines and in the order set forth in §60.48c and submitted to the addresses listed in permit condition 3.5.3.

**[45CSR§13-5.10; 45CSR13, R13-3431, 5.5.3.]**

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

- 4.6.1. Reserved.

## **5.0 Emergency Generator Engine (40CFR63, Subpart ZZZZ Requirements) [emission point ID(s): G3]**

### **5.1 Limitations and Standards**

5.1.1. If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs 1. through 3. below. In order for the engine to be considered an emergency stationary RICE under 40 CFR 63, subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs 1. through 3. below, is prohibited. If you do not operate the engine according to the requirements in paragraphs 1. through 3 below, the engine will not be considered an emergency engine under 40 CFR, subpart ZZZZ and must meet all requirements for non-emergency engines.

1. There is no time limit on the use of emergency stationary RICE in emergency situations.
2. You may operate your emergency stationary RICE for the purposes specified in this paragraph 2. for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph 3. below counts as part of the 100 hours per calendar year allowed by this paragraph.

Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

3. Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph 2. above. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

[45CSR34, 40 CFR §§63.6640(f), (f)(1), (f)(2)(i) and (f)(3)]

### **5.2 Monitoring Requirements**

5.2.1. Reserved.

### **5.3 Testing Requirements**

5.3.1. Reserved.

### **5.4 Recordkeeping Requirements**

5.4.1. Reserved.

## **5.5. Reporting Requirements**

5.5.1. Reserved

## **5.6. Compliance Plan**

5.6.1. Reserved.

## 6.0 Dehy Compressor Engine (40CFR63, Subpart ZZZZ Requirements) [emission point ID(s): E07]

### 6.1. Limitations and Standards

- 6.1.1. As stated in 40 CFR §63.6602, the permittee must comply with the following requirements from Table 2c for existing stationary RICE located at major sources of HAP emissions.

For each non-emergency, non-black start 4SRB stationary RICE 100<HP<500, the permittee must meet the following requirements, except during periods of startup: limit concentration of formaldehyde in the stationary RICE exhaust to 10.3 ppmvd or less at 15 percent O<sub>2</sub>.

**[45CSR34, 40 CFR §63.6602, Table 2c (Condition 11)]**

- 6.1.2. The permittee shall comply with the following general requirements:
- a. The permittee must be in compliance with the operating limitations in 40 CFR 63, subpart ZZZZ 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.

**[45CSR34, 40 CFR §63.6605]**

- 6.1.3. If you operate a new, reconstructed, or existing stationary engine, you 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 CFR 63, subpart ZZZZ apply.

**[45CSR34, 40 CFR §63.6625(h)]**

### 6.2. Monitoring Requirements

- 6.2.1. Reserved.

### 6.3. Testing Requirements

- 6.3.1. You must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to 40 CFR 63, subpart ZZZZ that apply to you within 180 days after the compliance date that is specified for your stationary RICE in 40 CFR §63.6595 and according to the provisions in 40 CFR §63.7(a)(2).

Table 4 - Requirements for Performance Test

For Each Stationary RICE complying with the requirement to limit the concentration of formaldehyde or CO in the stationary RICE exhaust:

You must . . .	Using . . .	According to the following requirements . . .
i. Select the sampling port location and the number/location of traverse points at the exhaust of the stationary RICE; and		(a) For formaldehyde, CO, O <sub>2</sub> , and moisture measurement, ducts <6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and <12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line ('3-point long line'). If the duct is >12 inches in diameter and the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 CFR part 60, appendix A, the duct may be sampled at '3-point long line'; otherwise, conduct the stratification testing and select sampling points according to Section 8.1.2 of Method 7E of 40 CFR part 60, appendix A. If using a control device, the sampling site must be located at the outlet of the control device.
ii. Determine the O <sub>2</sub> concentration of the stationary RICE exhaust at the sampling port location; and	(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A-2, or ASTM Method D6522-00 (Reapproved 2005) <sup>a</sup> (heated probe not necessary)	(a) Measurements to determine O <sub>2</sub> concentration must be made at the same time and location as the measurements for formaldehyde or CO concentration.
iii. Measure moisture content of the stationary RICE exhaust at the sampling port location; and	(1) Method 4 of 40 CFR part 60, appendix A-3, or Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 <sup>a</sup>	(a) Measurements to determine moisture content must be made at the same time and location as the measurements for formaldehyde or CO concentration.
iv. Measure formaldehyde at the exhaust of the stationary RICE; or	(1) Method 320 or 323 of 40 CFR part 63, appendix A; or ASTM D6348-03a, provided in ASTM D6348-03 Annex A5 (Analyte Spiking Technique), the percent R must be greater than or equal to 70 and less than or equal to 130	(a) Formaldehyde concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

<sup>a</sup>You may also use Methods 3A and 10 as options to ASTM-D6522-00 (2005). You may obtain a copy of ASTM-D6522-00 (2005) from at least one of the following addresses: American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

Table 5 - Initial Compliance with Emission Limitations, Operating Limitations, and Other Requirements

For each existing non-emergency stationary RICE 100<HP<500 located at a major source of HAP complying with the requirement to limit the concentration of formaldehyde or CO in the stationary RICE exhaust, you

have demonstrated initial compliance if the average formaldehyde or CO concentration, as applicable, corrected to 15 percent O<sub>2</sub>, dry basis, from the three test runs is less than or equal to the formaldehyde or CO emission limitation, as applicable.

**[45CSR34, 40 CFR §63.6612(a), Table 4 - Condition 3, Table 5 - Condition 12, 40 CFR §63.6620(a), 40 CFR §63.6630(a)]**

- 6.3.2. a. You must conduct three separate test runs for each performance test required in this section, as specified in 40 CFR §63.7(e)(3). Each test run must last at least 1 hour, unless otherwise specified in 40 CFR 63, subpart ~~ZZZZ~~.
- b. The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided.

**[45CSR34, 40 CFR §§63.6620(d), (i)]**

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

- 6.4.1. If you must comply with the emission and operating limitations, you must keep the records described in paragraphs 1. through 5. below:
1. A copy of each notification and report that you submitted to comply with 40 CFR 63, subpart ~~ZZZZ~~, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in 40 CFR §63.10(b)(2)(xiv).
  2. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.
  3. Records of performance tests and performance evaluations as required in 40 CFR §63.10(b)(2)(viii).
  4. Records of all required maintenance performed on the air pollution control and monitoring equipment.
  5. 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

**[45CSR34, 40 CFR §§63.6655(a)(1-5)]**

- 6.4.2. a. Your records must be in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1).

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

**[45CSR34, 40 CFR§63.6660]**

## **6.5. Reporting Requirements**

- 6.5.1. You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR §63.6645.  
**[45CSR34, 40 CFR§63.6630(c)]**
- 6.5.2. You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to 40 CFR 63, subpart ZZZZ that apply to you. These instances are deviations from the emission and operating limitations in 40 CFR 63, subpart ZZZZ. These deviations must be reported according to the requirements in 40 CFR §63.6650.  
**[45CSR34, 40 CFR§63.6640(b)]**
- 6.5.3. You must also report each instance in which you did not meet the requirements in Table 8 to 40 CFR 63, subpart ZZZZ that apply to you.  
**[45CSR34, 40 CFR§63.6640(e)]**
- 6.5.4. You must submit all of the notifications in 40 CFR §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.  
**[45CSR34, 40 CFR§63.6645(a)]**
- 6.5.5. If you are required to conduct a performance test, you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in 40 CFR §63.7(b)(1).

If you are required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to 40 CFR 63, subpart ZZZZ, you must submit a Notification of Compliance Status according to 40 CFR §63.9(h)(2)(ii).

For each initial compliance demonstration required in Table 5 to 40 CFR 63, subpart ZZZZ that includes a performance test conducted according to the requirements in Table 3 to 40 CFR 63, subpart ZZZZ, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to 40 CFR §63.10(d)(2).

**[45CSR34, 40 CFR§§63.6645(g), (h)(2)]**

- 6.5.6. Unless the Administrator has approved a different schedule for submission of reports under 40 CFR §63.10(a), you must submit each report by the date in Table 7 of 40 CFR 63, subpart ZZZZ and according to the requirements in 40 CFR §§63.6650(b)(1) through (b)(9).

For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in 40 CFR §§63.6650(b)(1) through (b)(4).

**[45CSR34, 40 CFR§63.6650(b), (b)(5)]**

6.5.7. The Compliance report must contain the information in paragraphs 1. through 5. below.

1. Company name and address.
2. Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
3. Date of report and beginning and ending dates of the reporting period.
4. If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with 40 CFR §63.6605(b), including actions taken to correct a malfunction.
5. If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.

**[45CSR34, 40 CFR§63.6650(c)]**

6.5.8. For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in section 6.5.7. and the information in paragraphs 1. and 2. below.

1. The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
2. Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

**[45CSR34, 40 CFR§63.6650(d)]**

6.5.9. 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 40 CFR 63 Subpart ZZZZ 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.  
[45CSR34, 40 CFR§63.6650(f)]

## **6.6. Compliance Plan**

6.6.1. Reserved.

## 7.0 Emergency Generator Set (R13-3431 Requirements) [emission point ID(s): G3]

### 7.1. Limitations and Standards

7.1.1. Maximum Yearly Operation Limitation: The maximum yearly hours of operation for the natural gas fired emergency generator set (049G3) shall not exceed 500 hours per year (during periods of non-emergencies). Compliance with the Maximum Yearly Operation Limitation shall be determined using a twelve month rolling total. A twelve month rolling total shall mean the sum of the hours of operation at any given time during the previous twelve consecutive calendar months.

[45CSR13, R13-3431, 4.1.1]

7.1.2. Maximum emissions from the 049G3 530 hp Waukesha VGFH24GL natural gas fired reciprocating engine generator shall not exceed the following limits:

Pollutant	Emission Limit (lb/hr)	Emission Limit (tpy)
NO <sub>x</sub>	2.57	0.58
CO	2.25	0.51
PM <sub>10</sub>	0.04	0.04
PM <sub>2.5</sub>	0.04	0.04
VOC	0.96	0.22
Formaldehyde	0.24	0.05

[45CSR13, R13-3431, 4.1.2]

7.1.3. The generator set's engine shall be equipped with a non-resettable hour meter.

[45CSR13, R13-3431, 4.1.3]

7.1.4. **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, R13-3431, 4.1.4]

### 7.2. Monitoring Requirements

7.2.1. For the purpose of demonstrating compliance with the limitation on hours of operation for the emergency generator set as established in Condition 7.1.1 of this permit, the permittee shall record the number of hours the generator set operated as recorded through the non-resettable hour meter during the calendar month and the reason for such operation. These records shall be maintained in accordance with Condition 3.4.2.

[45CSR13, R13-3431, 4.2.1]

### 7.3. Testing Requirements

7.3.1. At such reasonable time(s) as the Secretary may designate, in accordance with the provisions of 3.3 of this permit, the permittee shall conduct or have conducted test(s) to determine compliance with the emission limitations established in this permit and/or applicable regulations.

[45CSR13, R13-3431, 4.3.1]

#### **7.4. Recordkeeping Requirements**

- 7.4.1. **Record of Maintenance.** The permittee must keep a maintenance plan and records of conducted maintenance.  
[45CSR13, R13-3431, 4.4.2]

#### **7.5. Reporting Requirements**

- 7.5.1. See Facility-Wide Reporting Requirements Section 3.5.  
[45CSR13, R13-3431, 4.5.1]

#### **7.6. Compliance Plan**

- 7.6.1. Reserved.

## 8.0 Methanol Aboveground Storage Tanks [emission point ID(s): A-33, A-34]

### 8.1 Limitations and Standards

- 8.1.1. Maximum emissions from each methanol storage vessel (A-33 and A-34) shall not exceed the following limits:

Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (ton/year)
Volatile Organic Compounds (includes formaldehyde)	9.67	0.20
Methanol	9.67	0.20
Total HAPs	9.67	0.20

[45CSR13, R13-3431, 6.1.1]

- 8.1.2. To demonstrate compliance with the limits in section 8.1.1., the methanol throughput through A-33 shall not exceed 120,000 gallons per year and the methanol throughput of A-34 shall not exceed 90,000 gallons per year.

[45CSR13, R13-3431, 6.1.2]

### 8.2 Monitoring Requirements

- 8.2.1. The permittee shall monitor the throughput to each storage vessel (A-33, A-34) on a monthly basis.

[45CSR13, R13-3431, 6.2.1]

### 8.3 Testing Requirements

- 8.3.1. See Facility-Wide Testing Requirements Section 3.3.

[45CSR13, R13-3431, R13-3431, 6.3.1]

### 8.4 Recordkeeping Requirements

- 8.4.1. To demonstrate compliance with section 8.1.2, the permittee shall maintain a record of the aggregate throughput for each storage tank and truck loading on a monthly and rolling twelve month total. Said records shall be maintained on site or in a readily accessible off-site location maintained by the registrant for a period of five (5) years. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official.

[45CSR13, R13-3431, 6.4.1.]

### 8.5 Reporting Requirements

- 8.5.1. See Facility-Wide Reporting Requirements Section 3.5.

[45CSR13, R13-3431, 6.5.1.]

## 8.6. Compliance Plan

8.6.1. Reserved.

## **9.0 Blowdowns**

### **9.1 Limitations and Standards**

- 9.1.1. The maximum volume of compressor or emergency shutdown blowdowns shall not exceed ~~40,813,910~~ 41,956,000 scf per year. Compliance shall be determined using a twelve month rolling total. A twelve month rolling total shall mean the sum of the blowdown events at any given time during the previous twelve consecutive calendar months.  
[45CSR13, R13-3431, 7.1.1.]

### **9.2 Monitoring Requirements**

- 9.2.1. Reserved.

### **9.3 Testing Requirements**

- 9.3.1. Reserved.

### **9.4 Recordkeeping Requirements**

- 9.4.1. All records required under section 9.4 of this permit shall be kept in accordance with permit condition 3.4.2.  
[45CSR13, R13-3431, 7.2.1.]
- 9.4.2. To demonstrate compliance with permit condition 9.1.1, the permittee shall maintain a record of the blowdown events and estimated volume per event (scf) on a monthly and rolling twelve month total by the end of the calendar month.  
[45CSR13, R13-3431, 7.2.2.]

### **9.5 Reporting Requirements**

- 9.5.1. Any exceedance of permit condition 9.1.1 must be reported in writing to the Director of the DAQ as soon as practicable, but within ten (10) calendar days, of the occurrence and shall include, at a minimum, the following information: the date of the exceedance, the estimate of VOC emissions released to the atmosphere as a result of the exceedance and any corrective measures taken or planned.  
[45CSR13, R13-3431, 7.3.1.]

### **9.6 Compliance Plan**

- 9.6.1. Reserved.

## 10.0 Reciprocating Compressors C-10, C-20, C-30 (40 CFR 60 Subpart OOOOa Requirements)

### 10.1 Limitations and Standards

- 10.1.1. You must comply with the standards in paragraphs (a) through (d) of this permit condition for each reciprocating compressor affected facility.
- a. You must replace the reciprocating compressor rod packing according to either paragraph (a)(1) or (2) of this condition, or you must comply with paragraph (a)(3) of this condition.
    1. On or before the compressor has operated for 26,000 hours. The number of hours of operation must be continuously monitored beginning upon initial startup of your reciprocating compressor affected facility, or the date of the most recent reciprocating compressor rod packing replacement, whichever is later.
    2. Prior to 36 months from the date of the most recent rod packing replacement, or 36 months from the date of startup for a new reciprocating compressor for which the rod packing has not yet been replaced.
    3. Collect the methane and VOC emissions from the rod packing using a rod packing emissions collection system that operates under negative pressure and route the rod packing emissions to a process through a closed vent system that meets the requirements of 40 CFR §60.5411a(a) and (d).
  - b. You must demonstrate initial compliance with standards that apply to reciprocating compressor affected facilities as required by 40 CFR §60.5410a(c).
  - c. You must demonstrate continuous compliance with standards that apply to reciprocating compressor affected facilities as required by 40 CFR §60.5415a(c).
  - d. You must perform the reporting as required by 40 CFR §60.5420a(b)(1) and (4) and the recordkeeping as required by 40 CFR §§60.5420a(c)(3), (6) through (9), and (17), as applicable.

**[45CSR13, R13-3431, 8.1.1.; 45CSR16; 40CFR§60.5385a]**

### 10.2 Monitoring Requirements

- 10.2.1. You must determine initial compliance with the standards for each affected facility using the requirements in this permit condition. The initial compliance period begins upon initial startup and ends no later than one year after the initial startup date for your affected facility. The initial compliance period may be less than one full year.
- a. To achieve initial compliance with the standards for each reciprocating compressor affected facility you must comply with the following:
    1. If complying with §60.5385a(a)(1) or (2), during the initial compliance period, you must continuously monitor the number of hours of operation or track the number of months since the last rod packing replacement.

2. If complying with §60.5385a(a)(3), you must operate the rod packing emissions collection system under negative pressure and route emissions to a process through a closed vent system that meets the requirements of §60.5411a(a) and (d).
3. You must submit the initial annual report for your reciprocating compressor as required in §60.5420a(b)(1) and (4).
4. You must maintain the records as specified in §60.5420a(c)(3) for each reciprocating compressor affected facility.

**[45CSR13, R13-3431, 8.2.1.; 45CSR16; 40 CFR §§60.5410a and 60.5410a(c)]**

10.2.2. For each reciprocating compressor affected facility complying with §60.5385a(a)(1) or (2), you must demonstrate continuous compliance according to paragraphs (1) through (3) of this permit condition. For each reciprocating compressor affected facility complying with §60.5385a(a)(3), you must demonstrate continuous compliance according to paragraph (4) of this condition.

1. You must continuously monitor the number of hours of operation for each reciprocating compressor affected facility or track the number of months since initial startup or the date of the most recent reciprocating compressor rod packing replacement, whichever is later.
2. You must submit the annual reports as required in §60.5420a(b)(1) and (4) and maintain records as required in §60.5420a(c)(3).
3. You must replace the reciprocating compressor rod packing on or before the total number of hours of operation reaches 26,000 hours or the number of months since the most recent rod packing replacement reaches 36 months.
4. You must operate the rod packing emissions collection system under negative pressure and continuously comply with the cover and closed vent requirements in §60.5416a(a) and (b).

**[45CSR13, R13-3431, 8.3.1.; 45CSR16; 40CFR§60.5415a(c)]**

### **10.3. Testing Requirements**

10.3.1. Reserved.

### **10.4. Recordkeeping Requirements**

10.4.1. You must maintain the records identified as specified in 40 CFR §60.7(f) and in this permit condition. All records required by 40 CFR 60 Subpart OOOOa must be maintained either onsite or at the nearest local field office for at least 5 years. Any records required to be maintained by 40 CFR 60 Subpart OOOOa that are submitted electronically via the EPA's CDX may be maintained in electronic format.

For each reciprocating compressor affected facility, you must maintain the following records.

- a. Records of the cumulative number of hours of operation or number of months since initial startup or the previous replacement of the reciprocating compressor rod packing, whichever is later. Alternatively, a

statement that emissions from the rod packing are being routed to a process through a closed vent system under negative pressure.

- b. Records of the date and time of each reciprocating compressor rod packing replacement, or date of installation of a rod packing emissions collection system and closed vent system as specified in 40 CFR §60.5385a(a)(3).
- c. Records of deviations in cases where the reciprocating compressor was not operated in compliance with the requirements specified in 40 CFR §60.5385a.

**[45CSR13, R13-3431, 8.4.3.; 45CSR16; 40CFR§§60.5420a(c) and (c)(3)]**

## 10.5. Reporting Requirements

10.5.1. You must submit annual reports containing the information specified in this permit condition. You must submit annual reports to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX (<https://cdx.epa.gov/>.) You must use the appropriate electronic report in CEDRI for 40 CFR 60 Subpart OOOOa or an alternate electronic file format consistent with the extensible markup language (XML) schema listed on the CEDRI Web site (<https://www3.epa.gov/ttn/chief/cedri/>). If the reporting form specific to 40 CFR 60 Subpart OOOOa is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at the appropriate address listed in 40 CFR §60.4. Once the form has been available in CEDRI for at least 90 calendar days, you must begin submitting all subsequent reports via CEDRI. The reports must be submitted by the deadlines specified in 40 CFR 63 Subpart OOOOa, regardless of the method in which the reports are submitted. The initial annual report is due no later than 90 days after the end of the initial compliance period as determined according to 40 CFR §60.5410a. Subsequent annual reports are due no later than same date each year as the initial annual report. If you own or operate more than one affected facility, you may submit one report for multiple affected facilities provided the report contains all of the information required as specified in this permit condition. Annual reports may coincide with title V reports as long as all the required elements of the annual report are included. You may arrange with the Administrator a common schedule on which reports required by 40 CFR Part 60 may be submitted as long as the schedule does not extend the reporting period.

- a. The following specified general information for all reports.
  1. The company name, facility site name associated with the affected facility, US Well ID or US Well ID associated with the affected facility, if applicable, and address of the affected facility. If an address is not available for the site, include a description of the site location and provide the latitude and longitude coordinates of the site in decimal degrees to an accuracy and precision of five (5) decimals of a degree using the North American Datum of 1983.
  2. An identification of each affected facility being included in the annual report.
  3. Beginning and ending dates of the reporting period.
  4. A certification by a certifying official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- b. For each reciprocating compressor affected facility, the following specified information.

1. The cumulative number of hours of operation or the number of months since initial startup or since the previous reciprocating compressor rod packing replacement, whichever is later. Alternatively, a statement that emissions from the rod packing are being routed to a process through a closed vent system under negative pressure.
2. Records of deviations specified in 40 CFR §60.5420a(c)(3)(iii) that occurred during the reporting period.

**[45CSR13, R13-3431, 8.4.2.; 45CSR16; 40 CFR §§60.5420a(b), (b)(1), (b)(4) and (b)(11)]**

- 10.5.2. To demonstrate compliance with permit condition 10.1.1.d, the permittee shall maintain the reporting as required by §60.5420a(b)(1) and (4) and the recordkeeping as required by §60.5420a(c)(3), (6) through (9), and (17), as applicable.

**[45CSR13, R13-3431, 8.4.3.]**

## **10.6. Compliance Plan**

- 10.6.1. Reserved.

## 11.0 Fugitive Emission Components (40CFR60 Subpart OOOOa Requirements)

### 11.1. Limitations and Standards

- 11.1.1. For each affected facility under 40 CFR §60.5365a(j), you must reduce GHG (in the form of a limitation on emissions of methane) and VOC emissions by complying with the requirements of 40 CFR §§60.5397a(a) through (j). These requirements [in §60.5397a] are independent of the closed vent system and cover requirements in 40 CFR §60.5411a.  
**[45CSR13, R13-3431, 9.1.1.; 45CSR16; 40 CFR §60.5397a]**
- 11.1.2. You must monitor all fugitive emission components, as defined in §60.5430a, in accordance with paragraphs 40 CFR §§60.5397a(b) through (g). You must repair all sources of fugitive emissions in accordance with 40 CFR §60.5397a(h). You must keep records in accordance with 40 CFR §60.5397a(i) and report in accordance with 40 CFR §60.5397a(j). For purposes of 40 CFR §60.5397a, fugitive emissions are defined as: any visible emission from a fugitive emissions component observed using optical gas imaging or an instrument reading of 500 parts per million (ppm) or greater using Method 21.  
**[45CSR13, R13-3431, 9.1.1.(a); 45CSR16; 40 CFR §60.5397a(a)]**
- 11.1.3. Each identified source of fugitive emissions shall be repaired or replaced in accordance with paragraphs a. and b. of this permit condition. For fugitive emissions components also subject to the repair provisions of 40 CFR §§60.5416a(b)(9) through (12) and (c)(4) through (7), those provisions apply instead to those closed vent system and covers, and the repair provisions of paragraphs a. and b. of this condition do not apply to those closed vent systems and covers.
- a. Each identified source of fugitive emissions shall be repaired or replaced as soon as practicable, but no later than 30 calendar days after detection of the fugitive emissions.
  - b. If the repair or replacement is technically infeasible, would require a vent blowdown, a compressor station shutdown, a well shutdown or well shut-in, or would be unsafe to repair during operation of the unit, the repair or replacement must be completed during the next compressor station shutdown, well shutdown, well shut-in, after an unscheduled, planned or emergency vent blowdown or within 2 years, whichever is earlier.
  - c. Each repaired or replaced fugitive emissions component must be resurveyed as soon as practicable, but no later than 30 days after being repaired, to ensure that there are no fugitive emissions.
    1. For repairs that cannot be made during the monitoring survey when the fugitive emissions are initially found, the operator may resurvey the repaired fugitive emissions components using either Method 21 or optical gas imaging within 30 days of finding such fugitive emissions.
    2. For each repair that cannot be made during the monitoring survey when the fugitive emissions are initially found, a digital photograph must be taken of that component or the component must be tagged for identification purposes. The digital photograph must include the date that the photograph was taken, must clearly identify the component by location within the site (e.g., the latitude and longitude of the component or by other descriptive landmarks visible in the picture).
    3. Operators that use Method 21 to resurvey the repaired fugitive emissions components are subject to the following resurvey provisions.

- i. A fugitive emissions component is repaired when the Method 21 instrument indicates a concentration of less than 500 ppm above background or when no soap bubbles are observed when the alternative screening procedures specified in section 8.3.3 of Method 21 are used.
  - ii. Operators must use the Method 21 monitoring requirements specified in 40 CFR §60.5397a(c)(8)(ii) or the alternative screening procedures specified in section 8.3.3 of Method 21.
4. Operators that use optical gas imaging to resurvey the repaired fugitive emissions components, are subject to the following specified resurvey provisions.
  - i. A fugitive emissions component is repaired when the optical gas imaging instrument shows no indication of visible emissions.
  - ii. Operators must use the optical gas imaging monitoring requirements specified in 40 CFR §60.5397a (c)(7).

**[45CSR13, R13-3431, 9.1.1.(h); 45CSR16; 40 CFR §60.5397a(h)]**

## **11.2. Monitoring Requirements**

- 11.2.1. You must develop an emissions monitoring plan that covers the collection of fugitive emissions components at well sites and compressor stations within each company-defined area in accordance with 40 CFR §§60.5397a(c) and (d).

**[45CSR13, R13-3431, 9.1.1.(b); 45CSR16; 40 CFR §60.5397a(b)]**

- 11.2.2. Fugitive emissions monitoring plans must include the following specified elements:

- a. Frequency for conducting surveys. Surveys must be conducted at least as frequently as required by 40 CFR §§60.5397a(f) and (g).
- b. Technique for determining fugitive emissions (i.e., Method 21 of appendix A-7 to 40 CFR Part 60 or optical gas imaging).
- c. Manufacturer and model number of fugitive emissions detection equipment to be used.
- d. Procedures and timeframes for identifying and repairing fugitive emissions components from which fugitive emissions are detected, including timeframes for fugitive emission components that are unsafe to repair. Your repair schedule must meet the requirements of 40 CFR §60.5397a(h) at a minimum.
- e. Procedures and timeframes for verifying fugitive emission component repairs.
- f. Records that will be kept and the length of time records will be kept.
- g. If you are using optical gas imaging, your plan must also include the following specified elements:
  1. Verification that your optical gas imaging equipment meets the following specifications. This verification is an initial verification and may either be performed by the facility, by the manufacturer, or by a third party. For the purposes of complying with the fugitives emissions

monitoring program with optical gas imaging, a fugitive emission is defined as any visible emissions observed using optical gas imaging.

- i. Your optical gas imaging equipment must be capable of imaging gases in the spectral range for the compound of highest concentration in the potential fugitive emissions.
  - ii. Your optical gas imaging equipment must be capable of imaging a gas that is half methane, half propane at a concentration of 10,000 ppm at a flow rate of  $\leq 60$ g/hr from a quarter inch diameter orifice.
2. Procedure for a daily verification check.
  3. Procedure for determining the operator's maximum viewing distance from the equipment and how the operator will ensure that this distance is maintained.
  4. Procedure for determining maximum wind speed during which monitoring can be performed and how the operator will ensure monitoring occurs only at wind speeds below this threshold.
  5. Procedures for conducting surveys, including the following specified items:
    - i. How the operator will ensure an adequate thermal background is present in order to view potential fugitive emissions.
    - ii. How the operator will deal with adverse monitoring conditions, such as wind.
    - iii. How the operator will deal with interferences (e.g., steam).
  6. Training and experience needed prior to performing surveys.
  7. Procedures for calibration and maintenance. At a minimum, procedures must comply with those recommended by the manufacturer.
- h. If you are using Method 21 of appendix A-7 of 40 CFR Part 60, your plan must also include the following specified elements. For the purposes of complying with the fugitive emissions monitoring program using Method 21 a fugitive emission is defined as an instrument reading of 500 ppm or greater.
1. Verification that your monitoring equipment meets the requirements specified in Section 6.0 of Method 21 at 40 CFR part 60, appendix A-7. For purposes of instrument capability, the fugitive emissions definition shall be 500 ppm or greater methane using a FID-based instrument. If you wish to use an analyzer other than a FID-based instrument, you must develop a site-specific fugitive emission definition that would be equivalent to 500 ppm methane using a FID-based instrument (e.g., 10.6 eV PID with a specified isobutylene concentration as the fugitive emission definition would provide equivalent response to your compound of interest).
  2. Procedures for conducting surveys. At a minimum, the procedures shall ensure that the surveys comply with the relevant sections of Method 21 at 40 CFR Part 60, Appendix A-7, including Section 8.3.1.

**[45CSR13, R13-3431, 9.1.1.(c); 45CSR16; 40 CFR §60.5397a(c)]**

- 11.2.3. Each fugitive emissions monitoring plan must include at a minimum, the following specified elements as applicable:
- a. Sitemap.
  - b. A defined observation path that ensures that all fugitive emissions components are within sight of the path. The observation path must account for interferences.
  - c. If you are using Method 21, your plan must include a list of fugitive emissions components to be monitored and method for determining location of fugitive emissions components to be monitored in the field (e.g. tagging, identification on a process and instrumentation diagram, etc.).
  - d. Your plan must also include the written plan developed for all of the fugitive emissions components designated as difficult-to-monitor in accordance with paragraph 40 CFR §60.5397a(g)(3)(i), and the written plan for fugitive emission components designated as unsafe-to-monitor in accordance with paragraph 40 CFR §60.5397a(g)(3)(ii).

**[45CSR13, R13-3431, 9.1.1.(d); 45CSR16; 40 CFR §60.5397a(d)]**

- 11.2.4. Each monitoring survey shall observe each fugitive emissions component, as defined in §60.5430a, for fugitive emissions.

**[45CSR13, R13-3431, 9.1.1.(e); 45CSR16; 40 CFR §60.5397a(e)]**

- 11.2.5. You must conduct an initial monitoring survey within 60 days of the startup of a new compressor station for each new collection of fugitive emissions components at the new compressor station. For a modified collection of fugitive components at a compressor station, the initial monitoring survey must be conducted within 60 days of the modification.

**[45CSR13, R13-3431, 9.1.1.(f)(2); 45CSR16; 40 CFR §60.5397a(f)(2)]**

- 11.2.6. A monitoring survey of each collection of fugitive emissions components at a compressor station must be performed at the frequencies specified in paragraph a. of this permit condition with the exceptions noted in paragraphs b. and c. of this condition.

- a. A monitoring survey of the collection of fugitive emissions components at a compressor station within a company-defined area must be conducted at least quarterly after the initial survey. Consecutive quarterly monitoring surveys must be conducted at least 60 days apart.
- b. Fugitive emissions components that cannot be monitored without elevating the monitoring personnel more than 2 meters above the surface may be designated as difficult-to-monitor. Fugitive emissions components that are designated difficult-to-monitor must meet the following specifications.
  1. A written plan must be developed for all of the fugitive emissions components designated difficult-to-monitor. This written plan must be incorporated into the fugitive emissions monitoring plan required by paragraphs 40 CFR §§60.5397a(b), (c), and (d).
  2. The plan must include the identification and location of each fugitive emissions component designated as difficult-to-monitor.

3. The plan must include an explanation of why each fugitive emissions component designated as difficult-to-monitor is difficult-to-monitor.
  4. The plan must include a schedule for monitoring the difficult-to-monitor fugitive emissions components at least once per calendar year.
- c. Fugitive emissions components that cannot be monitored because monitoring personnel would be exposed to immediate danger while conducting a monitoring survey may be designated as unsafe-to-monitor. Fugitive emissions components that are designated unsafe-to-monitor must meet the following specifications.
1. A written plan must be developed for all of the fugitive emissions components designated unsafe-to-monitor. This written plan must be incorporated into the fugitive emissions monitoring plan required by 40 CFR §§60.5397a(b), (c), and (d).
  2. The plan must include the identification and location of each fugitive emissions component designated as unsafe-to-monitor.
  3. The plan must include an explanation of why each fugitive emissions component designated as unsafe-to-monitor is unsafe-to-monitor.
  4. The plan must include a schedule for monitoring the fugitive emissions components designated as unsafe-to-monitor.
- d. The requirements of paragraph a. of this condition are waived for any collection of fugitive emissions components at a compressor station located within an area that has an average calendar month temperature below 0°Fahrenheit for two of three consecutive calendar months of a quarterly monitoring period. The calendar month temperature average for each month within the quarterly monitoring period must be determined using historical monthly average temperatures over the previous three years as reported by a National Oceanic and Atmospheric Administration source or other source approved by the Administrator. The requirements of paragraph a. of this condition shall not be waived for two consecutive quarterly monitoring periods.

**[45CSR13, R13-3431, 9.1.1.(g)(2) - (g)(5); 45CSR16; 40 CFR §§60.5397a(g)(2) – (g)(5)]**

- 11.2.7. You must determine initial compliance with the standards for each affected facility using the requirements in 40 CFR §60.5410a(j). The initial compliance period begins upon initial startup and ends no later than 1 year after the initial startup date for your affected facility. The initial compliance period may be less than one full year.
- a. To achieve initial compliance with the fugitive emission standards for each collection of fugitive emissions components at a compressor station, you must comply with the following:
    1. You must develop a fugitive emissions monitoring plan as required in 40 CFR §§60.5397a(b), (c), and (d).
    2. You must conduct an initial monitoring survey as required in 40 CFR §60.5397a(f).
    3. You must maintain the records specified in 40 CFR §60.5420a(c)(15).

4. You must repair each identified source of fugitive emissions for each affected facility as required in 40 CFR §60.5397a(h).
5. You must submit the initial annual report for each collection of fugitive emissions components at a compressor station as required in 40 CFR §§60.5420a(b)(1) and (7).

**[45CSR13, R13-3431, 9.2.1. and 9.2.2.; 45CSR16; 40 CFR §§60.5410a and 60.5410a(j)]**

- 11.2.8. For each collection of fugitive emissions components at a compressor station, you must demonstrate continuous compliance with the fugitive emission standards specified in 40 CFR §60.5397a according to the following:
  - a. You must conduct periodic monitoring surveys as required in 40 CFR §60.5397a(g).
  - b. You must repair or replace each identified source of fugitive emissions as required in 40 CFR §60.5397a(h).
  - c. You must maintain records as specified in 40 CFR §60.5420a(c)(15).
  - d. You must submit annual reports for collection of fugitive emissions components at a well site and each collection of fugitive emissions components at a compressor station as required in 40 CFR §§60.5420a(b)(1) and (7).

**[45CSR13, R13-3431, 9.3.1.; 45CSR16; 40 CFR §60.5415a(h)]**

### **11.3. Testing Requirements**

- 11.3.1. Reserved.

### **11.4. Recordkeeping Requirements**

- 11.4.1. Records for each monitoring survey shall be maintained as specified 40 CFR §60.5420a(c)(15).  
**[45CSR13, R13-3431, 9.1.1.(i); 45CSR16; 40 CFR §60.5397a(i)]**
- 11.4.2. You must maintain the records identified as specified in 40 CFR §60.7(f) and in this permit condition. All records required by 40 CFR 60 Subpart OOOOa must be maintained either onsite or at the nearest local field office for at least 5 years. Any records required to be maintained by 40 CFR 60 Subpart OOOOa that are submitted electronically via the EPA's CDX may be maintained in electronic format.

For each collection of fugitive emissions components at a compressor station, the following identified records:

- a. The fugitive emissions monitoring plan as required in 40 CFR §§60.5397a(b), (c) and (d).
- b. The following records of each monitoring survey:
  1. Date of the survey.

2. Beginning and end time of the survey.
3. Name of operator(s) performing survey. You must note the training and experience of the operator.
4. Monitoring instrument used.
5. When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured from the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being performed. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS unit can be clearly read in the digital image.
6. Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.
7. Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.
8. Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.
9. Documentation of each fugitive emission, including the following specified information:
  - i. Location.
  - ii. Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.
  - iii. Number and type of components for which fugitive emissions were detected.
  - iv. Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.
  - v. Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.
  - vi. Number and type of fugitive emissions components that were not repaired as required in 40 CFR §60.5397a(h).
  - vii. Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in 40 CFR §60.5397a(h)(3)(ii).
  - viii. If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in in 40 CFR §60.5397a(h)(3)(ii). The digital

photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under 40 CFR §60.5420a(c)(15)(ii)(E), as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.

- ix. Repair methods applied in each attempt to repair the fugitive emissions components.
  - x. Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.
  - xi. The date of successful repair of the fugitive emissions component.
  - xii. Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.
- c. For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under 40 CFR §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.

**[45CSR13, R13-3431, 9.4.3.; 45CSR16; 40 CFR §§60.5420a(c) and (c)(15)]**

## **11.5. Reporting Requirements**

- 11.5.1. Annual reports shall be submitted for each collection of fugitive emissions components at a compressor station that include the information specified in 40CFR §60.5420a(b)(7). Multiple collection of fugitive emissions components at a compressor station may be included in a single annual report.  
**[45CSR13, R13-3431, 9.1.1.(j); 45CSR16; 40 CFR §60.5397a(j)]**
- 11.5.2. You must submit annual reports containing the information specified in this permit condition. You must submit annual reports to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX (<https://cdx.epa.gov/>)). You must use the appropriate electronic report in CEDRI for 40 CFR 60 Subpart OOOOa or an alternate electronic file format consistent with the extensible markup language (XML) schema listed on the CEDRI Web site (<https://www3.epa.gov/ttn/chief/cedri/>). If the reporting form specific to 40 CFR 60 Subpart OOOOa is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at the appropriate address listed in 40 CFR §60.4. Once the form has been available in CEDRI for at least 90 calendar days, you must begin submitting all subsequent reports via CEDRI. The reports must be submitted by the deadlines specified in this permit, regardless of the method in which the reports are submitted. The initial annual report is due no later than 90 days after the end of the initial compliance period as determined according to 40 CFR §60.5410a. Subsequent annual reports are due no later than same date each year as the initial annual report. If you own or operate more than one affected facility, you may submit one report for multiple affected facilities provided the report contains all of the information required as specified in this permit condition. Annual reports may coincide with title V reports as long as all the required elements of the annual report are included. You may arrange with the Administrator a common schedule on which reports required by 40 CFR Part 60 may be submitted as long as the schedule does not extend the reporting period.
- a. The following general information specified for all reports.

1. The company name, facility site name associated with the affected facility, US Well ID or US Well ID associated with the affected facility, if applicable, and address of the affected facility. If an address is not available for the site, include a description of the site location and provide the latitude and longitude coordinates of the site in decimal degrees to an accuracy and precision of five (5) decimals of a degree using the North American Datum of 1983.
  2. An identification of each affected facility being included in the annual report.
  3. Beginning and ending dates of the reporting period.
  4. A certification by a certifying official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- b. For the collection of fugitive emissions components at each compressor station within the company-defined area, the records of each monitoring survey including the specified information in this section of this permit condition. For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under 40 CFR §60.5397a(g)(5), you must include in your annual report the fact that a monitoring survey was waived and the calendar months that make up the quarterly monitoring period for which the monitoring survey was waived.
1. Date of the survey.
  2. Beginning and end time of the survey.
  3. Name of operator(s) performing survey. If the survey is performed by optical gas imaging, you must note the training and experience of the operator.
  4. Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.
  5. Monitoring instrument used.
  6. Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.
  7. Number and type of components for which fugitive emissions were detected.
  8. Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).
  9. Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.
  10. The date of successful repair of the fugitive emissions component.
  11. Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.

12. Type of instrument used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.

[45CSR13, R13-3431, 9.4.2.; 45CSR16; 40 CFR §§60.5420a(b)(1), (b)(7) and (b)(11)]

## **11.6. Compliance Plan**

- 11.6.1. Reserved.