

West Virginia Department of Environmental Protection

Austin Caperton

Cabinet Secretary

# Permit to Operate



Pursuant to

**Title V**

of the Clean Air Act

*Issued to:*

**Columbia Gas Transmission, LLC**

**Terra Alta Compressor Station**

**R30-07700017-2017**

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*William F. Durham*

*Director*

*Issued: July 24, 2017 • Effective: August 7, 2017*  
*Expiration: July 24, 2022 • Renewal Application Due: January 24, 2022*

Permit Number: **R30-07700017-2017**  
Permittee: **Columbia Gas Transmission, LLC**  
Facility Name: **Terra Alta Compressor Station**  
Permittee Mailing Address: **1700 MacCorkle Avenue, SE, Charleston, WV 25314**

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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:	Star Route Box 10, Terra Alta, WV 26764
Telephone Number:	(304) 789-3053
Type of Business Entity:	LLC
Facility Description:	Natural Gas Transmission Facility
SIC Codes:	4922
UTM Coordinates:	625.13 km Easting • 4364.38 km Northing • Zone 17

Permit Writer: Bobbie Scroggie

*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
HTR1*	H1	North Field Indirect-fired Line Heater #1; NATCO Model # 3X6-25	1959	4.0 mmBtu/hr	N/A
HTR2*	H2	North Field Indirect-fired Line Heater #2; NATCO Model # 3X6-25-Y	1959	4.0 mmBtu/hr	N/A
HTR3*	H3	North Field Indirect-fired Line Heater #3; BS&B Model # 6X24	1969	8.0 mmBtu/hr	N/A
HTR4*	H4	South Field Indirect-fired Line Heater; NATCO Model # 3X6-25-Y	1959	4.0 mmBtu/hr	N/A
HTR5*	H5	Zone 6 Indirect-fired Line Heater; Bryant Inc Serial # 21031F	1981	1.0 mmBtu/hr	N/A
HTR6*	H6	Contact tower Regen. Heater John Zink Model VPM-RA30	1959	3.0 mmBtu/hr	N/A
<a href="#">HTR7*</a>	<a href="#">H7</a>	<a href="#">Teri 10000 Line Heater</a>	<a href="#">2020</a>	<a href="#">8.0 mmBtu/hr</a>	<a href="#">N/A</a>
<a href="#">HTR8*</a>	<a href="#">H8</a>	<a href="#">Teri 16000 Line Heater</a>	<a href="#">2020</a>	<a href="#">10.0 mmBtu/hr</a>	<a href="#">N/A</a>
<a href="#">HTR9*</a>	<a href="#">H9</a>	<a href="#">Teri 16000 Line Heater</a>	<a href="#">2020</a>	<a href="#">10.0 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	174 HP	C1 Catalyst
049G3*	G3	Reciprocating Engine/Generator, Waukesha VGFH24GL; 4-cycle, lean burn; emergency	2019 (Mfg. 2008)	530 HP	N/A
FLLP1	FL1	Odorant Flare #1; John Zink; 98% VOC Abatement	1981/2005	0.5 mmBtu/hr	N/A
A27	FL1	Mercaptan Odorant Storage Tank	2005	250 gallons	FLLP1

\* 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
R13-3431A	<del>March 13, 2019</del> <a href="#">April 7, 2020</a>

## 2.0 General Conditions

### 2.1 Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.
- 2.1.4. Unless otherwise specified in a permit condition or underlying rule or regulation, all references to a "rolling yearly total" shall mean the sum of the monthly data, values or parameters being measured, monitored, or recorded, at any given time for the previous twelve (12) consecutive calendar months.

### 2.2 Acronyms

<b>CAAA</b>	Clean Air Act Amendments	<b>NSPS</b>	New Source Performance Standards
<b>CBI</b>	Confidential Business Information	<b>PM</b>	Particulate Matter
<b>CEM</b>	Continuous Emission Monitor	<b>PM<sub>10</sub></b>	Particulate Matter less than 10µm in diameter
<b>CES</b>	Certified Emission Statement	<b>pph</b>	Pounds per Hour
<b>C.F.R. or CFR</b>	Code of Federal Regulations	<b>ppm</b>	Parts per Million
<b>CO</b>	Carbon Monoxide	<b>PSD</b>	Prevention of Significant Deterioration
<b>C.S.R. or CSR</b>	Codes of State Rules	<b>psi</b>	Pounds per Square Inch
<b>DAQ</b>	Division of Air Quality	<b>SIC</b>	Standard Industrial Classification
<b>DEP</b>	Department of Environmental Protection	<b>SIP</b>	State Implementation Plan
<b>FOIA</b>	Freedom of Information Act	<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>HAP</b>	Hazardous Air Pollutant	<b>TAP</b>	Toxic Air Pollutant
<b>HON</b>	Hazardous Organic NESHAP	<b>TPY</b>	Tons per Year
<b>HP</b>	Horsepower	<b>TRS</b>	Total Reduced Sulfur
<b>lbs/hr or lb/hr</b>	Pounds per Hour	<b>TSP</b>	Total Suspended Particulate
<b>LDAR</b>	Leak Detection and Repair	<b>USEPA</b>	United States Environmental Protection Agency
<b>m</b>	Thousand	<b>UTM</b>	Universal Transverse Mercator
<b>MACT</b>	Maximum Achievable Control Technology	<b>VEE</b>	Visual Emissions Evaluation
<b>mm</b>	Million	<b>VOC</b>	Volatile Organic Compounds
<b>mmBtu/hr</b>	Million British Thermal Units per Hour		
<b>mmft<sup>3</sup>/hr or mmcf/hr</b>	Million Cubic Feet Burned per Hour		
<b>NA or N/A</b>	Not Applicable		
<b>NAAQS</b>	National Ambient Air Quality Standards		
<b>NESHAPS</b>	National Emissions Standards for Hazardous Air Pollutants		
<b>NO<sub>x</sub></b>	Nitrogen Oxides		

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

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

### **2.4. Permit Actions**

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

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

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

**[45CSR§30-6.6.a.]**

## **2.6. Administrative Permit Amendments**

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

## **2.7. Minor Permit Modifications**

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

## **2.8. Significant Permit Modification**

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

## **2.9. Emissions Trading**

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

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

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



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

**[45CSR§30-5.9.]**

## **2.11. Operational Flexibility**

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

**[45CSR§30-5.8]**

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

**[45CSR§30-5.8.a.]**

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

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

**[45CSR§30-5.8.c.]**

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

**[45CSR§30-2.39]**

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

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

[45CSR§30-5.1.i.]

## **2.13. Duty to Comply**

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

[45CSR§30-5.1.f.1.]

## **2.14. Inspection and Entry**

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

[45CSR§30-5.3.b.]

## **2.15. Schedule of Compliance**

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

[45CSR§30-5.3.d.]

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

- 2.16.1. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

[45CSR§30-5.1.f.2.]

## **2.17. Emergency**

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

[45CSR§30-5.7.a.]

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

[45CSR§30-5.7.b.]

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

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

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

[45CSR§30-5.7.c.]

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

[45CSR§30-5.7.d.]

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

[45CSR§30-5.7.e.]

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

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

[45CSR§30-5.2.a.]

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

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

- 2.19.1. The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records required to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

[45CSR§30-5.1.f.5.]

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

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

[45CSR§30-4.2.]

## **2.21. Permit Shield**

2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and are specifically identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof.

[45CSR§30-5.6.a.]

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

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

[45CSR§30-5.6.c.]

## **2.22. Credible Evidence**

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

[45CSR§30-5.3.e.3.B. and 45CSR38]

## **2.23. Severability**

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

[45CSR§30-5.1.e.]

## **2.24. Property Rights**

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

[45CSR§30-5.1.f.4]

## **2.25. Acid Deposition Control**

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

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

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

**[45CSR§30-5.1.d.]**

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

**[45CSR§30-5.1.a.2.]**

### 3.0 Facility-Wide Requirements

#### 3.1 Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person is prohibited except as noted in 45CSR§6-3.1. [45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause or allow any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible. [45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them. [40 C.F.R. §61.145(b) and 45CSR34]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public. [45CSR§4-3.1 State-Enforceable only.]
- 3.1.5. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11. [45CSR§11-5.2]
- 3.1.6. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality. [W.Va. Code § 22-5-4(a)(14)]
- 3.1.7. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.

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

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

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

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

- 3.1.9. 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. None.

### **3.3. Testing Requirements**

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

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



Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

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

[WV Code §§ 22-5-4(a)(14-15) and 45CSR13]

### 3.4. Recordkeeping Requirements

- 3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:
  - a. The date, place as defined in this permit and time of sampling or measurements;
  - b. The date(s) analyses were performed;
  - c. The company or entity that performed the analyses;
  - d. The analytical techniques or methods used;
  - e. The results of the analyses; and
  - f. The operating conditions existing at the time of sampling or measurement.

[45CSR§30-5.1.c.2.A.;45CSR13, 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  
Section (3ED21)  
1650 Arch Street  
Philadelphia, PA 19103-2029

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

site for five (5) years from submittal of the certification. 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. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.

- 3.5.8. **Deviations.**

- a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:
1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.
  2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.
  3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
  4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

**[45CSR§30-5.1.c.3.C.]**

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

[45CSR§30-5.1.c.3.B.]

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

[45CSR§30-4.3.h.1.B.]

- 3.5.10. 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. None.

### 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. 45CSR10 - To Prevent and Control Air Pollution from the Emission of Sulfur Oxides: The sulfur dioxide requirements for fuel burning units do not apply to indirect combustion sources at this site because there are no units with design heat inputs above 10 MMBtu/hr. Therefore they are exempt in accordance with 45CSR§10-10.1.~~

- ~~b.~~ e. 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.~~ d. 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."

- ~~e.~~ ~~40 CFR Part 60 Subpart Dc - Standards of Performance for Steam Generating Units: The heating system boiler and heaters at this facility are less than 10 MMBtu/hr design heat capacity, which is below the applicability criteria stated in 40 CFR §60.40e(a).~~
- ~~d.~~ ~~f.~~ 40 CFR Part 60 Subpart K and Ka - Standards of Performance for Petroleum Liquid Storage Vessels. 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.~~ ~~g.~~ 40 CFR Part 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels. All tanks at the station 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.~~ ~~h.~~ 40 CFR Part 60 Subparts GG and KKKK - The provisions of these subparts are not applicable because there are no turbines installed at this location.
- ~~g.~~ ~~i.~~ 40 CFR Part 60 Subpart KKK - Standards of Performance for Equipment Leaks of VOC From Onshore Natural Gas Processing Plant(s). 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.
- ~~h.~~ ~~j.~~ 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.~~ ~~k.~~ 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.
- ~~j.~~ ~~l.~~ 40 CFR Part 60 Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution 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, in accordance with 40 CFR §60.5365(e).
- ~~k.~~ ~~m.~~ 40 CFR Part 60 Subpart OOOOa - Standards of Performance for Crude Oil and Natural Facilities for which Construction, Modification, or Reconstruction Commenced after September 18, 2015. The GHG and VOC requirements defined by this NSPS are not applicable to this site because all affected sources commenced construction prior to September 18, 2015 in accordance with 40 CFR §60.5365a.
- ~~l.~~ ~~n.~~ 40 CFR Part 63 Subpart YYYY - There are no turbine engines at this facility.
- ~~m.~~ ~~o.~~ 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.

- n. ~~p.~~ 40 CFR Part 64 CAM - 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 exempt because it is subject to 40 CFR 63, Subpart ZZZZ 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:
  - i. Information to support the claim of life threatening circumstances to justify applicability of this emergency provision;
  - ii. Identification of the engine(s) being temporarily replaced;
  - iii. The design parameters of the replacement engine(s) including, but not limited to, the design horsepower and emission factors;
  - iv. Projected duration of the replacement engine(s); and
  - v. The appropriate certification by a responsible official.

**[45CSR§30-12.7]**

## 4.0 Indirect Natural Gas Heaters and Boilers [Emission Point IDs: BL3, H1, H2, H3, H4, H5, ~~H6~~, H7, H8, and H9]

### 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. [\[45CSR§2-3.1; 45CSR13, R13-3431, 5.1.2.\]](#)
- 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. [\[45CSR§2-3.2; 45CSR13, R13-3431, 5.1.2. and 5.3.1.\]](#)
- 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.~~ and 4.1.6. 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, 2, 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 this table, 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.]**
- 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, H1, H2, H4, 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 greater than 5 mmBtu/hr and less than 10 mmBtu/hr must complete a tune-up every 2 years as specified in 40 CFR §63.7540.  
**[45CSR34, 40 CFR §§63.7500(a) and (e) and Table 3, Item 2 (H3 and H7)]**
- 4.1.6. 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 (H8 and H9)]**
- ~~4.1.6.~~ 4.1.7.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, H1, H2, H3, H4, 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)]**
- 4.1.8. 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 4.1.8.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 NOX 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 \(H8 and H9\)](#)]**

**4.1.9.** ~~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.~~78.~~ to demonstrate continuous compliance. The permittee may delay the burner inspection specified in condition 4.1.~~78.~~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, H1, H2, H4, H5, and H6)]**

4.1.10. ~~4.1.9.~~ If your boiler or process heater has a heat input capacity of less than 10 million Btu per hour (except as specified in condition 4.1.89.), you must conduct a biennial tune-up of the boiler or process heater as specified in condition 4.1.78. to demonstrate continuous compliance.

[45CSR34; 40 CFR§63.7540(a)(11); 45CSR13, R13-3431, 5.4.1., Emission Point IDs (H3 and H7)]

4.1.11. Maximum Design Heat Input. The maximum design heat input for line heater HTR7 shall not exceed 8 MMBtu/hr. The maximum design heat input for each line heater, HTR8 and HTR9, shall not exceed 10 MMBtu/hr.

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

4.1.12. Line heater, HTR7, 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>0.78</u>	<u>3.44</u>
<u>CO</u>	<u>0.66</u>	<u>2.89</u>
<u>PM<sub>10</sub></u>	<u>0.06</u>	<u>0.26</u>
<u>VOC</u>	<u>0.04</u>	<u>0.19</u>
<u>SO<sub>2</sub></u>	<u>0.46</u>	<u>0.03</u>

To demonstrate compliance with Section 4.1.11, the quantity of natural gas that shall be consumed in line heater (HTR7) shall not exceed 7,843.1 scf/hr cubic feet per hour and 68.71 x 10<sup>6</sup> cubic feet per year.

Each of the line heaters, HTR8 and HTR9, 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>0.98</u>	<u>4.29</u>
<u>CO</u>	<u>0.82</u>	<u>3.61</u>
<u>PM<sub>10</sub></u>	<u>0.07</u>	<u>0.33</u>
<u>VOC</u>	<u>0.05</u>	<u>0.24</u>
<u>SO<sub>2</sub></u>	<u>0.57</u>	<u>0.03</u>

To demonstrate compliance with Section 4.1.11, the quantity of natural gas that shall be consumed in each line heater (HTR8 and HTR9) shall not exceed 9803.9 scf/hr cubic feet per hour and 85.88 x 10<sup>6</sup> cubic feet per year.

The hourly particulate matter and sulfur dioxide emission limits above for 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.b and 45CSR§10-3.3.f]

4.1.13. Heaters (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.]**

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.c., 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)]**

## 4.4. Recordkeeping Requirements

4.4.1. The permittee must keep records according to paragraph 1. below.

1. 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)]**

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]**

- 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)]**

- 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)]**

- 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)]**

- 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)]**

- 4.5.5. [An initial notification of the date of construction of heaters 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. None.

## 5.0 40 CFR 63, Subpart ZZZZ Requirements for New Emergency SI RICE > 500 HP at Major HAP Sources [Emission Point ID: G3]

### 5.1. Limitations and Standards

5.1.1. 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]**

5.1.2. 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 any combination of the purposes specified in paragraphs i. through iii. below 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.
  - i. 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.
  - ii. Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

- iii. Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
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)]

## **5.2. Monitoring Requirements**

- 5.2.1. N/A

## **5.3. Testing Requirements**

- 5.3.1. N/A

## **5.4. Recordkeeping Requirements**

- 5.4.1. N/A

## **5.5. Reporting Requirements**

- 5.5.1. If you own or operate an emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in 40 CFR §63.6640(f)(4)(ii), you must submit an annual report according to the requirements in paragraphs 1. through 3. below.
  1. The report must contain the following information:
    - i. Company name and address where the engine is located.
    - ii. Date of the report and beginning and ending dates of the reporting period.
    - iii. Engine site rating and model year.
    - iv. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
    - v. Hours operated for the purposes specified in 40 CFR §63.6640(f)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR §63.6640(f)(2)(ii) and (iii).
    - vi. Number of hours the engine is contractually obligated to be available for the purposes specified in 40 CFR §63.6640(f)(2)(ii) and (iii).



- vii. Hours spent for operation for the purpose specified in 40 CFR §63.6640(f)(4)(ii), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR §63.6640(f)(4)(ii). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
  - viii. If there were no deviations from the fuel requirements in 40 CFR §63.6604 that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period.
  - ix. If there were deviations from the fuel requirements in 40 CFR §63.6604 that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken.
- 2. The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.
  - 3. The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)). However, if the reporting form specific to 40 CFR 63, subpart ZZZZ is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in 40 CFR §63.13.

**[45CSR34, 40 CFR §63.6650(h)]**

- 5.5.2. If you are required to submit an Initial Notification but are otherwise not affected by the requirements of 40 CFR 63, subpart ZZZZ, in accordance with 40 CFR §63.6590(b), your notification should include the information in 40 CFR §63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions).

**[45CSR34, 40 CFR §63.6645(f)]**

## **5.6. Compliance Plan**

- 5.6.1. N/A

## **6.0 40 CFR 63, Subpart ZZZZ Requirements for Existing 4SRB SI RICE 100≤HP≤500 at a Major Source [Emission Point ID: 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. N/A

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

**[45CSR34, 40 CFR§63.6650(f)]**

## 6.6. Compliance Plan

6.6.1. N/A

## 7.0 R13-3431 Requirements [Emission Unit ID: 049G3]

### 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. 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	0.01
PM <sub>2.5</sub>	0.04	0.01
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. N/A



## 8.0 Mercaptan Odorant Tank and Flare [Emission Unit IDs: A27, FLLP1]

### 8.1 Limitations and Standards

- 8.1.1. a. 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]**
- b. Accidental and other infrequent discharges which cause or contribute to objectionable odors will be considered on an individual basis and shall be reported by the person responsible therefore to the Director in the manner to be prescribed by the Director.  
**[45CSR§4-4.1 State-Enforceable only]**
- c. When a process or operation results in the discharge of an air pollutant or pollutants which causes or contributes to an objectionable odor, an acceptable control program shall be developed and offered to the Director by the person responsible for the discharge of such air pollutant or pollutants. This control program shall be submitted in the manner prescribed by the Director and within such time as shall be fixed by the Director. If such a control program has been approved by the Director by the issuance of a variance, the person responsible for said discharge shall not be considered to be in violation of this rule in connection with said discharge so long as the program is observed.  
**[45CSR§4-6.1 State-Enforceable only]**
- d. The Director may permit, under emergency circumstances, the discharge of air pollutants which causes or contributes to an objectionable odor under specific conditions for specific time periods. Any person who desires such a variance shall make application to the Director in the manner prescribed by the Director.  
**[45CSR§4-6.2 State-Enforceable only]**
- 8.1.2. No person shall cause or allow emission of smoke into the atmosphere from any incinerator which is twenty percent (20%) opacity or greater, except smoke which is less than forty (40%) percent opacity, for a period or periods aggregating no more than eight (8) minutes per start-up.  
**[45CSR§§6-4.3 and 4.4.]**
- 8.1.3. No person shall cause or allow the emissions of particles of unburned or partially burned refuse or ash from any incinerator which are large enough to be individually distinguished in the open air.  
**[45CSR§6-4.5]**
- 8.1.4. Incinerators, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors.  
**[45CSR§6-4.6]**
- 8.1.5. No person shall cause or allow particulate matter to be discharged from any incinerator into the open air in excess of the quantity determined by use of the following formula:

$$\text{Emissions (lb/hr)} = F \times \text{Incinerator Capacity (tons/hr)}$$

Where, the factor, F, is 5.43 for an incinerator with a capacity of less than 15,000 lbs/hr

$$\text{Calculation for PM Emissions: } (5.43) \times (0.016 \text{ tons/hr}) = 0.09 \text{ lb/hr}$$

**[45CSR§6-4.1.]**

- 8.1.6. Facilities using Mercaptan Tanks shall use proper odor control methods to comply with 45CSR4. [45CSR§30-12.7 State-Enforceable only.]

## **8.2. Monitoring Requirements**

- 8.2.1. At such reasonable times as the Secretary may designate, the operator of any incinerator shall be required to conduct VE readings to determine compliance with 45CSR6. [45CSR§30-5.1.c.]
- 8.2.2. The permittee shall vent all emissions from the mercaptan odorant tank to the portable flare FLLP1 during loading operations. [45CSR§30-12.7.]

## **8.3. Testing Requirements**

- 8.3.1. N/A

## **8.4. Recordkeeping Requirements**

- 8.4.1. N/A

## **8.5. Reporting Requirements**

- 8.5.1. N/A

## **8.6. Compliance Plan**

- 8.6.1. N/A