STATE OF TENNESSEE
AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE

PERMIT TO CONSTRUCT / MODIFY AIR CONTAMINANT SOURCE(S)

Permit Number: 980045
Facility (Permittee): Eco-Energy Stone Mountain, LLC dba Stone Mountain Processing Inlet Feed
Facility ID: 37-0088
Facility Address: 681 Highway 113, Rogersville, Hawkins
Facility Classification: True Minor
Federal Requirements: 40 CFR 60, Subpart KKK
40 CFR 63, Subparts HH, ZZZZ
Facility Description: Natural Gas Processing Plant and Compressor Station

Permit 980045, consisting of 84 pages is hereby issued July 8, 2022, pursuant to the Tennessee Air Quality Act and by the Technical Secretary, Tennessee Air Pollution Control Board, Department of Environment and Conservation. This permit expires on July 7, 2024. The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations (TAPCR).

Michelle W. Owenby
Technical Secretary
Tennessee Air Pollution Control Board

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.
Section I – Sources Included in this Construction Permit

<table>
<thead>
<tr>
<th>Source Number</th>
<th>Source Description</th>
<th>Status</th>
<th>Control Device/Equipment</th>
</tr>
</thead>
</table>
| 01            | Compressor Engine C-1  
2007 Model Year Caterpillar G3516LE, 1340 HP, 11.37 MMBtu/hr, 4-Stroke Lean Burn Engine | Modified | The Model Year 1998 Caterpillar G3516LE is equipped with Air-to-Fuel Ratio Control and oxidation catalyst, the other engines have no control. |
| 02            | Compressor Engine RP2021-C2  
Pre-2007 Model Year, Cameron Ajax DPC-720-LE, 720 HP, 5.62 MMBtu/hr, 2-Stroke Lean Burn Engine |  |  |
| 02            | Compressor Engine RP2021-C3  
Pre-2007 Model Year, Cameron Ajax DPC-720-LE, 720 HP, 5.62 MMBtu/hr, 2-Stroke Lean Burn Engine |  |  |
| 02            | Compressor Engine EP03  
1998 Model Year Caterpillar G3516LE, 1265 HP, 10.74 MMBtu/hr, 4-Stroke Lean Burn Engine, with ADEM3 Air-to-Fuel Ratio Control and DCL DC65-14 oxidation catalyst |  |  |
| 02            | Natural Gas Processing Plant (formerly part of Facility 37-0123), with:  
25 MMscfd cryogenic plant, with a 3.9 MMBtu per hour regeneration heater  
5 MMscfd triethylene glycol dehydration unit with a 0.2 MMBtu per hour glycol regeneration heater  
Demethanizer unit  
Two pressurized Natural gas liquids tanks | Existing | Not Applicable |

Section II – Permit Record

<table>
<thead>
<tr>
<th>Permit Type</th>
<th>Description of Permit Action</th>
<th>Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial</td>
<td>Initial construction permit issuance</td>
<td>July 8, 2022</td>
</tr>
</tbody>
</table>

Section III - General Permit Conditions

G1. Responsible Person

The applications that were utilized in the preparation of this construction permit are dated February 7, 2022, and February 22, 2022, and are signed by Morgan Greenwood, ESG Manager, the Responsible Person for the permittee. Notification was received on June 14, 2022, that Bryon LeFort, Director Pipeline Operations, is now the Responsible Person for the permittee. The Responsible Person may be the owner, president, vice-president, general partner, plant manager, environmental/health/safety coordinator, or other person that is able to represent and bind the facility in environmental permitting affairs. If this Responsible Person terminates their employment or is assigned different duties and is no longer the person to represent and bind the permittee in environmental permitting affairs, the new Responsible Person for the permittee shall notify the Technical Secretary of the change in writing. The Notification shall include the name and title of the new Responsible Person assigned by the permittee to represent and bind the permittee in environmental permitting affairs, and the date the new Responsible Person was assigned these duties.
Should a change in the Responsible Person occur, the new Responsible Person must submit the Notification provided in Appendix 1 of this permit no later than 30 days after the change. A separate notification shall be submitted for each subsequent change in Responsible Person.

TAPCR 1200-03-09-.03(8)

G2. Application and Agreement Letters

This source shall operate in accordance with the terms of this permit, the information submitted in the approved permit application referenced in Condition G1, and any documented agreements made with the Technical Secretary.

TAPCR 1200-03-09-.01(1)(d)

G3. Submittals

Unless otherwise specified within this permit, the permittee shall submit, preferably via email and in Adobe Portable Document format (PDF), all applicable plans, checklists, certifications, notifications, test protocols, reports, and applications to the attention of the following Division Programs at the email addresses indicated in the table below:

<table>
<thead>
<tr>
<th>Permitting Program</th>
<th>Compliance Validation Program</th>
<th>Field Services Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Notifications</td>
<td>• Test protocols</td>
<td>• Semiannual reports</td>
</tr>
<tr>
<td>• Startup certifications</td>
<td>• Emission test reports</td>
<td>• Annual compliance</td>
</tr>
<tr>
<td>• Applications</td>
<td>• Visible emission</td>
<td>certifications/status</td>
</tr>
<tr>
<td>• NSPS reports</td>
<td>evaluation reports</td>
<td>reports</td>
</tr>
<tr>
<td>• MACT/GACT/NESHAP reports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Emission statements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Construction permit extension requests</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Division of Air Pollution Control
William R. Snodgrass TN Tower, 15th Floor
312 Rosa L. Parks Avenue
Nashville, TN 37243
Air.Pollution.Control@tn.gov

Johnson City Environmental Field Office
Division of Air Pollution Control
2305 Silverdale Road
Johnson City, TN 37601
APC.JCEFO@tn.gov

The permittee shall submit the information identified above as requested in this permit. In lieu of submitting this information to the email addresses above, the permittee may submit the information to the attention of the respective Division Programs at the mailing addresses listed above.

TAPCR 1200-03-09-.03(8)

G4. Notification of Changes

The permittee shall notify the Technical Secretary for any of the following changes to a permitted air contaminant source which would not be a modification requiring a new construction permit:

- change in air pollution control equipment that does not result in an increase or otherwise meet the definition of a modification
- change in stack height or diameter
• change in exit velocity of more than 25 percent or exit temperature of more than 15 percent based on absolute temperature.

The permittee must submit the Notification provided in Appendix 2 of this permit 30 days before the change is commenced.

TAPCR 1200-03-09-.02(7)

G5. Permit Transference

A. This permit is not transferable from one air contaminant source to another air contaminant source or from one location to another location. The permittee must submit a construction permit application for a new source to the Permitting Program not less than 90 days prior to the estimated starting date of these events. If the new source will be subject to major New Source Review, the application must be submitted not less than 120 days in advance of the estimated starting date of these events.

TAPCR 1200-03-09-.03(6)(b) and 1200-03-09-.01(1)(b)

B. In the event an ownership change occurs at this facility, the new owner must submit the notification provided in Appendix 3 of this permit. The written notification must be submitted by the new owner to the Permitting Program no later than 30 days after the ownership change occurs. If the change in ownership results in a change in Responsible Person for the facility, notification of the change in Responsible Person must also be submitted, as specified in Condition G1 of this permit.

TAPCR 1200-03-09-.03(6)(a) and (b)

G6. Operating Permit Application Submittal

The permittee shall submit an application for an operating permit with the results of the performance test required by Condition F1-8. The operating permit application and performance test report shall be submitted within 60 days following completion of the performance test.

TAPCR 1200-03-09-.02(1) and 1200-03-09-.02(3)

G7. Temporary Operating Permit

A. This construction permit shall serve as a temporary operating permit from the date of issuance, until the Technical Secretary issues an operating permit, provided the permittee submits an operating permit application within the timeframe specified in Condition G6.

TAPCR 1200-03-09-.02(1), 1200-03-09-.02(2) and 1200-03-09-.02(3)(b)(1)

B. If construction of the air contaminant source(s) cannot be completed and/or an operating permit application cannot be filed with the Technical Secretary by the expiration date of this permit, the permittee must submit a permit extension request 30 days prior to permit expiration.

TAPCR 1200-03-09-.02(1) and 1200-03-09-.02(3)

G8. Startup Certification for New or Modified Source(s)

The startup certification provided in Appendix 4 shall be submitted to the Permitting Program once an air contaminant source has started up. A separate startup certification must be submitted for each air contaminant source
included in this permit. Startup of the air contaminant source shall be the date the new or modified air contaminant source began operation for the production of product for sale, use as raw materials, or steam or heat production under the terms of this permit. A separate startup certification must be submitted for each air contaminant source included in this permit.

TAPCR 1200-03-09-.03(8)

**Compliance Method:** The startup certification provided in Appendix 4 shall be submitted no later than 30 days after each air contaminant source has begun startup.

**G9. Fees**

The air contaminant source(s) identified in this permit shall comply with the requirements for payment of applicable annual emission fees to the Tennessee Division of Air Pollution Control based on the Administrative Fees Schedule I provided in Appendix 5 of this permit. The fee must be paid to the Division in full by the first day of the month that the fee is due (determined from Appendix 5). (Note: not all facilities are required to pay annual emission fees)

TAPCR 1200-03-26-.02

**G10. General Recordkeeping Requirements**

A. All recordkeeping requirements for all data required to be recorded shall follow the following schedules:

<table>
<thead>
<tr>
<th>For Daily Recordkeeping</th>
<th>For Weekly Recordkeeping</th>
<th>For Monthly Recordkeeping</th>
</tr>
</thead>
<tbody>
<tr>
<td>No later than seven days from the end of the day for which the data is required.</td>
<td>No later than seven days from the end of the week for which the data is required.</td>
<td>No later than 30 days from the end of the month for which the data is required.</td>
</tr>
</tbody>
</table>

B. The information contained in logs, records, and submittals required by this permit shall be kept at the facility’s address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request. Computer-generated logs are acceptable. Compliance is assured by retaining the logs, records, and submittals specified in this permit for a period of not less than five years at the facility’s address.

TAPCR 1200-03-10-.02(2)(a)

**G11. Routine Maintenance Requirements**

The permittee shall maintain and repair the emission source, associated air pollution control device(s), and compliance assurance monitoring equipment as required to maintain and assure compliance with the specified emission limits.

TAPCR 1200-03-09-.03(8)

**Compliance Method:** Records of all repair and maintenance activities required above shall be recorded in a suitable permanent form and kept available for inspection by the Division. These records must be retained for a period of not less than five years. The date each maintenance and repair activity began shall be entered in the log no later than seven days following the start of the repair or maintenance activity, and the completion date shall be entered in the log no later than seven days after activity completion.
G12. Visible and Fugitive Emissions

A. Unless otherwise specified, visible emissions from this facility shall not exhibit greater than 20% opacity, except for one six-minute period in any one-hour period, and for no more than four six-minute periods in any 24-hour period. A stack is defined as any chimney, flue, conduit, exhaust, vent, or opening of any kind whatsoever, capable of, or used for, the emission of air contaminants.

TAPCR 1200-03-05-.01(1) and 1200-03-05-.03(6)

Compliance Method: When required to demonstrate compliance, visible emissions shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

B. The permittee shall not cause, suffer, allow, or permit any materials to be handled, transported, or stored; or a building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Reasonable precautions shall include, but are not limited to, the following:

(a) Use, where possible, of water or chemicals for control of dust in demolition of existing buildings or structures, construction operations, grading of roads, or the clearing of land;
(b) Application of asphalt, water, or suitable chemicals on dirt roads, material stockpiles, and other surfaces which can create airborne dusts;
(c) Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials. Adequate containment methods shall be employed during sandblasting or other similar operations.

The permittee shall not cause, suffer, allow, or permit fugitive dust to be emitted in such manner to exceed five minutes per hour or 20 minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in TAPCR 1200-03-20. A malfunction is defined as, any sudden and unavoidable failure of process equipment or for a process to operate in an abnormal and unusual manner. Failures that are caused by poor maintenance, careless operation, or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions.

TAPCR 1200-03-08-.01(1) and 1200-03-08-.01(2)

Compliance Method: When required to demonstrate compliance, fugitive emissions shall be determined by Tennessee Visible Emissions Evaluation Method 4 as adopted by the Tennessee Air Pollution Control Board on April 16, 1986.

C. Fugitive emissions from roads and parking areas shall not exhibit greater than 10% opacity.

Compliance Method: When required to demonstrate compliance, fugitive emissions from roads and parking areas shall be determined by utilizing Tennessee Visible Emissions Evaluation (TVEE) Method 1, as adopted by the Tennessee Air Pollution Control Board on April 29, 1982, as amended on September 15, 1982 and August 24, 1984.

TAPCR 1200-03-08-.03

G13. Facility-wide Limitations

Not applicable
G14. **NSPS/NESHAP/MACT/GACT Standards**

The following source(s) are subject to and shall comply with all applicable requirements of each NSPS/NESHAP/MACT/GACT standard as indicated in the table below, including the General Provisions identified in Appendices 9 and 10. The applicable requirements of each standard are incorporated into this permit pursuant to TAPCR 1200-03-09-.03(8).

<table>
<thead>
<tr>
<th>Source</th>
<th>NESHAP/MACT/GACT</th>
<th>NSPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>40 CFR 63, Subpart ZZZZ</td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>40 CFR 63, Subpart HH</td>
<td>40 CFR 60, Subpart KKK</td>
</tr>
</tbody>
</table>

TAPCR 1200-03-09-.03(8)

**Compliance Method:** Compliance methods are provided in the conditions in Section V of this permit.

G15. **VOC and NOx Emission Statement**

_Not Applicable_

G16. **Permit Supersedes Statement**

For the modified source(s) identified below, this permit supersedes all previously issued permits for the source(s) upon startup of the modified source(s). Startup of a modified source is defined in Condition G8.

<table>
<thead>
<tr>
<th>Source Number</th>
<th>Source Description</th>
<th>Control Device/Equipment</th>
</tr>
</thead>
</table>
| 01            | Compressor Engine C-1  
2007 Model Year Caterpillar G3516LE, 1340 HP, 11.37 MMBtu/hr, 4-Stroke Lean Burn Engine |                          |
|               | Compressor Engine RP2021-C2  
Pre-2007 Model Year, Cameron Ajax DPC-720-LE, 720 HP, 5.62 MMBtu/hr, 2-Stroke Lean Burn Engine | The Model Year 1998 Caterpillar G3516LE is equipped with Air-to-Fuel Ratio Control and oxidation catalyst, the other engines have no control. |
|               | Compressor Engine RP2021-C3  
Pre-2007 Model Year, Cameron Ajax DPC-720-LE, 720 HP, 5.62 MMBtu/hr, 2-Stroke Lean Burn Engine |                          |
|               | Compressor Engine EP03  
1998 Model Year Caterpillar G3516LE, 1265 HP, 10.74 MMBtu/hr, 4-Stroke Lean Burn Engine, with ADEM3 Air-to-Fuel Ratio Control and DCL DC65-14 oxidation catalyst |                          |

This permit supersedes all previously issued permits for all other sources included in this permit upon issuance of this permit.

TAPCR 1200-03-09-.03(8)

**Section IV – Federal and/or State Only Requirements**
See Section V – Source Specific Permit Conditions

Section V - Source Specific Permit Conditions

<table>
<thead>
<tr>
<th>Source No</th>
<th>Source Description: Spark Ignition, Natural Gas-Fired Internal Combustion Engines</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Compressor Engine C-1</td>
</tr>
<tr>
<td></td>
<td>Compressor Engine RP2021-C2</td>
</tr>
<tr>
<td></td>
<td>Compressor Engine RP2021-C3</td>
</tr>
<tr>
<td></td>
<td>Compressor Engine EP03</td>
</tr>
</tbody>
</table>

S1-1. Input Limitation(s) or Statement(s) of Design

Not applicable

S1-2. Production Limitation(s)

Not applicable

S1-3. Operating Hour Limitation(s)

Not applicable

S1-4. Emission Limitation(s)

Compressor Engine C-1 | 2007 Model Year Caterpillar G3516LE, 1340 HP, 11.37 MMBtu/hr, 4-Stroke Lean Burn Engine |

A. Particulate matter (PM) emitted from the Caterpillar G3516LE, 1340 HP engine shall not exceed 0.1 pounds per hour, on a daily average basis.

TAPCR 1200-03-06-.01(7) and the agreement letter with date March 7, 2022, in Appendix 7 of this permit.

**Compliance Method:** Compliance with this emission limitation is assured by the engine type and horsepower rating (1340 HP, 11.37 MMBtu/hr. Spark Ignition 4-Stroke Lean Burn, Natural Gas-Fired) and the emission factor of (9.91 E-03 + 7.71 E-05) pounds per million Btu from AP-42, Chapter 3, Section 2, Table 3.2-2, Emission Factors for Natural Gas-fired Reciprocating Engines, supplement to 5th Ed. dated August 2000.

B. Carbon Monoxide (CO) emitted from the Caterpillar G3516LE, 1340 HP engine shall not exceed 31.96 tons during any period of 12-consecutive months.

TAPCR 1200-03-07-.07(2) and the application dated February 7, 2022
Compliance Method: Compliance with this emission limitation is assured by the engine type and horsepower rating (1340 HP, 11.37 MMBtu/hr. Spark Ignition 4-Stroke Lean Burn, Natural Gas-Fired) and the manufacturer provided emission factor of 2.47 gram per horsepower-hour from the application dated February 7, 2022.

C. Volatile organic compounds (VOC) emitted from the Caterpillar G3516LE, 1340 HP engine shall not exceed 8.67 tons during any period of 12-consecutive months.

TAPCR 1200-03-07-.07(2) and the application dated February 7, 2022

Compliance Method: Compliance with this emission limitation is assured by the engine type and horsepower rating (1340 HP, 11.37 MMBtu/hr. Spark Ignition 4-Stroke Lean Burn, Natural Gas-Fired) and the manufacturer provided emission factors of 0.39 gram per horsepower-hour (for VOC not including formaldehyde) and 0.28 gram per horsepower-hour (for formaldehyde, a VOC) from the application dated February 7, 2022.

D. Nitrogen Oxides (NOx) emitted from the Caterpillar G3516LE, 1340 HP engine shall not exceed 25.88 tons during any period of 12-consecutive months.

TAPCR 1200-03-07-.07(2) and the application dated February 7, 2022

Compliance Method: Compliance with this emission limitation is assured by the engine type and horsepower rating (1340 HP, 11.37 MMBtu/hr. Spark Ignition 4-Stroke Lean Burn, Natural Gas-Fired) and the manufacturer provided emission factor of 2.0 grams per horsepower-hour from the application dated February 7, 2022.

Compressor Engines RP2021-C2 and RP2021-C3
Pre-2007 Model Year, Cameron Ajax DPC-720-LE, 720 HP, 5.62 MMBtu/hr, 2-Stroke Lean Burn Engines

E. Particulate matter (PM) emitted from the Cameron Ajax DPC-720-LE engines shall not exceed 0.3 pounds per hour per engine, on a daily average basis.

TAPCR 1200-03-06-.01(7) and the agreement letter with date March 7, 2022, in Appendix 7 of this permit.

Compliance Method: Compliance with this emission limitation is assured by the engine type and horsepower rating (720 HP, 5.62 MMBtu/hr. Spark Ignition 2-Stroke Lean Burn, Natural Gas-Fired) and the emission factor of (9.91 E-03 + 7.71 E-05) pounds per million Btu from AP-42, Chapter 3, Section 2, Table 3.2-2, Emission Factors for Natural Gas-fired Reciprocating Engines, supplement to 5th Ed. dated August 2000.

F. Carbon Monoxide (CO) emitted from the Cameron Ajax DPC-720-LE engines shall not exceed 7.01 tons per engine during any period of 12-consecutive months.

TAPCR 1200-03-07-.07(2) and the application dated February 7, 2022

Compliance Method: Compliance with this emission limitation is assured by the engine type and horsepower rating (720 HP, 5.62 MMBtu/hr. Spark Ignition 2-Stroke Lean Burn, Natural Gas-Fired) and the manufacturer provided emission factor of 1.0 gram per horsepower-hour from the application dated February 7, 2022.

G. Volatile organic compounds (VOC) emitted from the Cameron Ajax DPC-720-LE engines shall not exceed 5.69 tons per engine during any period of 12-consecutive months.

TAPCR 1200-03-07-.07(2) and the application dated February 7, 2022

Compliance Method: Compliance with this emission limitation is assured by the engine type and horsepower rating (720 HP, 5.62 MMBtu/hr. Spark Ignition 2-Stroke Lean Burn, Natural Gas-Fired) and the manufacturer
provided emission factors of 0.5 gram per horsepower-hour (for VOC not including formaldehyde) and 0.3 gram per horsepower-hour (for formaldehyde, a VOC) from the application dated February 7, 2022.

H. Nitrogen Oxides (NOx) emitted from the Cameron Ajax DPC-720-LE engines shall not exceed 14.02 tons per engine during any period of 12-consecutive months.

TAPCR 1200-03-07-.07(2) and the application dated February 7, 2022

**Compliance Method:** Compliance with this emission limitation is assured by the engine type and horsepower rating (720 HP, 5.62 MMBtu/hr. Spark Ignition 2-Stroke Lean Burn, Natural Gas-Fired) and the manufacturer provided emission factor of 2.0 grams per horsepower-hour from the application dated February 7, 2022.

Compressor Engine EP03
1998 Model Year Caterpillar G3516LE, 1265 HP, 10.74 MMBtu/hr, 4-Stroke Lean Burn Engine, with ADEM3 Air-to-Fuel Ratio Control and DCL DC65-14 oxidation catalyst

I. Particulate matter (PM) emitted from the Caterpillar G3516LE, 1265 HP engine shall not exceed 0.1 pounds per hour, on a daily average basis.

TAPCR 1200-03-06-.01(7) and the agreement letter with date March 7, 2022, in Appendix 7 of this permit.

**Compliance Method:** Compliance with this emission limitation is assured by the engine type and horsepower rating (1265 HP, 10.74 MMBtu/hr. Spark Ignition 4-Stroke Lean Burn, Natural Gas-Fired) and the emission factor of (9.91 E-03 + 7.71 E-05) pounds per million Btu from AP-42, Chapter 3, Section 2, Table 3.2-2, Emission Factors for Natural Gas-fired Reciprocating Engines, supplement to 5th Ed. dated August 2000.

J. Carbon Monoxide (CO) emitted from the Caterpillar G3516LE, 1265 HP engine shall not exceed 3.07 tons during any period of 12-consecutive months.

TAPCR 1200-03-07-.07(2) and the application dated February 7, 2022

**Compliance Method:** Compliance with this emission limitation is assured by the engine type and horsepower rating (1265 HP, 10.74 MMBtu/hr. Spark Ignition 4-Stroke Lean Burn, Natural Gas-Fired) and the manufacturer provided emission factor of 2.47 gram per horsepower-hour from the application dated February 7, 2022.

K. Volatile organic compounds (VOC) emitted from the Caterpillar G3516LE, 1265 HP engine shall not exceed 5.70 tons during any period of 12-consecutive months.

TAPCR 1200-03-07-.07(2) and the application dated February 7, 2022

**Compliance Method:** Compliance with this emission limitation is assured by the engine type and horsepower rating (1265 HP, 10.74 MMBtu/hr. Spark Ignition 4-Stroke Lean Burn, Natural Gas-Fired) and the manufacturer provided emission factors of 0.39 gram per horsepower-hour (for VOC not including formaldehyde) and 0.28 gram per horsepower-hour (for formaldehyde, a VOC) from the application dated February 7, 2022.

L. Nitrogen Oxides (NOx) emitted from the Caterpillar G3516LE, 1265 HP engine shall not exceed 38.54 tons during any period of 12-consecutive months.

TAPCR 1200-03-07-.07(2) and the application dated February 7, 2022
**Compliance Method:** Compliance with this emission limitation is assured by the engine type and horsepower rating (1265 HP, 10.74 MMBtu/hr, Spark Ignition 4-Stroke Lean Burn, Natural Gas-Fired) and the manufacturer provided emission factor of 2.0 grams per horsepower-hour from the application dated February 7, 2022.

### S1-1. Source-Specific Visible Emissions Limitation(s)

*Not applicable*

#### 40 CFR 60, Subpart JJJJ

The engines in this source are manufactured before January 1, 2008, and have not been modified or reconstructed, therefore they are not subject to 40 CFR 60, Subpart JJJJ requirements.

#### 40 CFR 63, Subpart ZZZZ

<table>
<thead>
<tr>
<th>Source No</th>
<th>Source Description: Spark Ignition, Natural Gas-Fired Internal Combustion Engines</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Compressor Engine <strong>C-1</strong>&lt;br&gt;2007 Model Year Caterpillar G3516LE, 1340 HP, 11.37 MMBtu/hr, 4-Stroke Lean Burn Engine</td>
</tr>
<tr>
<td>01</td>
<td>This engine, manufactured on August 2007, is subject to subpart ZZZZ requirements for a new stationary RICE located at an area source of HAP emissions, and is required to meet subpart ZZZZ requirements by meeting the requirements of 40 CFR part 60 subpart JJJJ for spark ignition engines, however, as noted above, due to its date of manufacture this engine is not subject to 40 CFR 60, Subpart JJJJ requirements (this is a referred to as a “gap” engine).</td>
</tr>
<tr>
<td></td>
<td>Compressor Engine <strong>RP2021-C2</strong>&lt;br&gt;Pre-2007 Model Year, Cameron Ajax DPC-720-LE, 720 HP, 5.62 MMBtu/hr, 2-Stroke Lean Burn Engine</td>
</tr>
<tr>
<td></td>
<td>This engine is subject to subpart ZZZZ requirements for non-emergency, non-black start 2-Stroke Lean Burn stationary RICE, for changing the engine oil and filter and for inspecting spark plugs, hoses and belts and replacing as necessary.</td>
</tr>
<tr>
<td>01</td>
<td>Compressor Engine <strong>RP2021-C3</strong>&lt;br&gt;Pre-2007 Model Year, Cameron Ajax DPC-720-LE, 720 HP, 5.62 MMBtu/hr, 2-Stroke Lean Burn Engine</td>
</tr>
<tr>
<td></td>
<td>This engine is subject to subpart ZZZZ requirements for non-emergency, non-black start 2-Stroke Lean Burn stationary RICE, for changing the engine oil and filter and for inspecting spark plugs, hoses and belts and replacing as necessary.</td>
</tr>
<tr>
<td></td>
<td>Compressor Engine <strong>EP03</strong>&lt;br&gt;1998 Model Year Caterpillar G3516LE, 1265 HP, 10.74 MMBtu/hr, 4-Stroke Lean Burn Engine, with ADEM3 Air-to-Fuel Ratio Control and DCL DC65-14 oxidation catalyst</td>
</tr>
<tr>
<td></td>
<td>This engine is subject to subpart ZZZZ requirements for existing non-emergency SI 4SLB stationary RICE with a site rating of more than 500 HP located at area sources of HAP that are not remote stationary RICE, including the use of catalyst after-treatment with 93 percent or more average reduction of emissions of CO, or average CO outlet concentration less than or equal to 47 ppmvd at 15 percent O₂; and the use of equipment for catalyst temperature monitoring or for shutting down the engine if the catalyst inlet temperature exceeds 1,350 °F.</td>
</tr>
</tbody>
</table>

**Conditions F1-1 through F1-5** apply to Compressor Engines RP2021-C2, RP2021-C3 and EP03, unless otherwise noted.
F1-1. The permittee must comply with the following requirements in Table 2d to this 40 CFR part 63 subpart ZZZZ that apply to these engines.

<table>
<thead>
<tr>
<th>Engine(s) subject to requirement</th>
<th>For each . . .</th>
<th>The permittee must meet the following requirement, except during periods of startup . . .</th>
<th>During periods of startup the permittee must . . .</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP2021-C2</td>
<td>6. Non-emergency, non-black start 2SLB stationary RICE</td>
<td>a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first;¹</td>
<td></td>
</tr>
<tr>
<td>RP2021-C3</td>
<td></td>
<td>b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary; and</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.</td>
<td></td>
</tr>
<tr>
<td>EP03</td>
<td>9. Non-emergency, non-black start 4SLB stationary RICE &gt;500 HP that are not remote stationary RICE and that operate more than 24 hours per calendar year</td>
<td>Install an oxidation catalyst to reduce HAP emissions from the stationary RICE</td>
<td></td>
</tr>
</tbody>
</table>

¹ The permittee has the option to utilize an oil analysis program as described in Condition F1-7 in order to extend the specified oil change requirement.

40 CFR §63.6603(a) and TAPCR 1200-03-09-.03(8)

Compliance Method: The permittee must keep records of the engine oil and filter changes; and inspections and replacements of spark plugs, hoses and belts.

F1-2. 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 levels required by this standard have been achieved.

40 CFR §63.6605(b) and TAPCR 1200-03-09-.03(8)

Compliance Method: Determination of whether such operation and maintenance procedures are being used will be based on information available to the Technical Secretary 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.

F1-3. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Condition F1-1 apply.

40 CFR §63.6625(h) and TAPCR 1200-03-09-.03(8)

Compliance Method: The permittee must keep records of engine startup showing date, time, and startup duration in minutes.

F1-4. The permittee must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Condition F1-1 according to methods specified in items 9 and 14 in Table 6 to 40 CFR part 63 subpart ZZZZ.
<table>
<thead>
<tr>
<th>Engine(s) subject to requirement</th>
<th>For each . . .</th>
<th>Complying with the requirement to . . .</th>
<th>The permittee must demonstrate continuous compliance by . . .</th>
</tr>
</thead>
</table>
| RP2021-C2 RP2021-C3           | 9. Existing emergency and black start stationary RICE ≤500 HP located at a major source of HAP, existing non-emergency stationary RICE <100 HP located at a major source of HAP, existing emergency and black start stationary RICE located at an area source of HAP, existing non-emergency stationary CI RICE ≤300 HP located at an area source of HAP, existing non-emergency stationary 2SLB stationary RICE located at an area source of HAP, existing non-emergency stationary SI RICE located at an area source of HAP which combats landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, existing non-emergency 4SLB and 4SRB stationary RICE ≤500 HP located at an area source of HAP, existing non-emergency 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate 24 hours or less per calendar year, and existing non-emergency 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that are remote stationary RICE | a. Work or Management practices | i. Operating and maintaining the stationary RICE according to the manufacturer’s emission-related operation and maintenance instructions; or  
ii. Develop and follow the permittee’s own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. |
| EP03                          | 14. Existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year | a. Install an oxidation catalyst | i. Conducting annual compliance demonstrations as specified in 40 CFR §63.6640(c) to show that the average reduction of emissions of CO is 93 percent or more, or the average CO concentration is less than or equal to 47 ppmvd at 15 percent O₂; and either  
ii. Collecting the catalyst inlet temperature data according to 40 CFR § 63.6625(b), reducing these data to 4-hour rolling averages; and maintaining the 4-hour rolling averages within the limitation of greater than 450 °F and less than or equal to 1350 °F for the catalyst inlet temperature; or  
iii. Immediately shutting down the engine if the catalyst inlet temperature exceeds 1350 °F. |

40 CFR §63.6640(a) and TAPCR 1200-03-09-.03(8)
Compliance Method: The permittee must keep records of the maintenance conducted on these engines in order to demonstrate that the permittee operated and maintained the engines and after-treatment control device (if any) according to the requirements specified above.

(a) The 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 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).

40 CFR §63.6655(e)(3), 40 CFR §63.6660(a) through (c), and TAPCR 1200-03-09-.03(8)

F1-5. The permittee must report each instance in which the permittee did not meet the requirements in Table 8 to 40 CFR part 63 subpart ZZZZ (see Appendix 10) that apply to these engines.

40 CFR §63.6640(e) and TAPCR 1200-03-09-.03(8)

Compliance Method: Determination of whether the required reports were submitted will be based on information available to the Technical Secretary 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.

Conditions F1-6 through F1-7 apply to Compressor Engines RP2021-C2 and RP2021-C3

F1-6. The permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions

40 CFR §63.6625(e)(3) and TAPCR 1200-03-09-.03(8)

Compliance Method: Determination of whether such operation and maintenance procedures are being used will be based on information available to the Technical Secretary 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.

F1-7. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Condition F1-1. The oil analysis must be performed at the same frequency specified for changing the oil in Condition F1-1. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the permittee is not required to change the oil. If any of the limits are exceeded, the permittee must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the permittee must change the oil within 2 business days or before commencing operation, whichever is later. The oil analysis program must be part of the maintenance plan for the engine in Condition F1-4.

40 CFR §63.6625(j) and TAPCR 1200-03-09-.03(8)
Compliance Method: The permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine.

**Conditions F1-8 through F1-29 apply to Compressor Engine EP03**

**F1-8.** The permittee must conduct the performance test specified below. Each performance test must be conducted according to the requirements that 40 CFR part 63 subpart ZZZZ specifies in Table 4 to 40 CFR part 63 subpart ZZZZ. If the permittee owns or operates a non-operational stationary RICE that is subject to performance testing, the permittee does not need to start up the engine solely to conduct the performance test. The permittee can conduct the performance test of a non-operational engine when the engine is started up again. The permittee must conduct three separate test runs for each performance test required in 40 CFR § 63.6620, as specified in 40 CFR § 63.7(e)(3). Each test run must last at least 1 hour, unless otherwise specified in 40 CFR part 63 subpart ZZZZ. The performance test reports shall be sent to the Compliance Validation Program at the address noted in Condition G3.

<table>
<thead>
<tr>
<th>For each . . .</th>
<th>Complying with the requirement to . . .</th>
<th>The permittee must . . .</th>
<th>Using . . .</th>
<th>According to the following requirements . . .</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 2SLB, 4SLB, and CI stationary RICE</td>
<td>a. reduce CO emissions</td>
<td>i. Select the sampling port location and the number/location of traverse points at the inlet and outlet of the control device; and</td>
<td>(a) For CO and O₂ measurement, ducts ≤6 inches in diameter may be sampled at a single point located at the duct centroid and ducts &gt;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 &gt;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-1, 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-4.</td>
<td>(b) Measurements to determine O₂ must be made at the same time as the measurements for CO concentration.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ii. Measure the O₂ at the inlet and outlet of the control device; and</td>
<td>(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A-2, or ASTM Method D6522-00 (Reapproved 2005)⁷ (heated probe not necessary)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(b) Measurements to determine O₂ must be made at the same time as the measurements for CO concentration.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>iii. Measure the CO at the inlet and the outlet of the control device</td>
<td>(1) ASTM D6522-00 (Reapproved 2005)⁷ (heated probe not necessary) or Method 10 of 40 CFR part 60, appendix A-4</td>
<td>(c) The CO concentration must be at 15 percent O₂, dry basis.</td>
</tr>
</tbody>
</table>

40 CFR §63.6620(a), (b), and (d); and TAPCR 1200-03-09-03(8)

**F1-9.** The permittee must use Equation 1 below to determine compliance with the percent reduction requirement:

\[
\frac{C_i - C_o}{C_i} \times 100 = R \quad (Eq. 1)
\]
Where:

\( C_i \) = concentration of carbon monoxide (CO), total hydrocarbons (THC), or formaldehyde at the control device inlet,
\( C_o \) = concentration of CO, THC, or formaldehyde at the control device outlet, and
\( R \) = percent reduction of CO, THC, or formaldehyde emissions.

40 CFR §63.6620(e) and TAPCR 1200-03-09-.03(8)

**F1-10.** The permittee must normalize the CO concentration at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO\(_2\)). If pollutant concentrations are to be corrected to 15 percent oxygen and CO\(_2\) concentration is measured in lieu of oxygen concentration measurement, a CO\(_2\) correction factor is needed. Calculate the CO\(_2\) correction factor as described in paragraphs (i) through (iii) below.

(i) Calculate the fuel-specific \( F_o \) value for the fuel burned during the test using values obtained from Method 19 of 40 CFR part 60, appendix A-7, Section 5.2, and the following equation:

\[
F_o = \frac{0.209 \cdot F_d}{F_c} \quad \text{(Eq. 2')}
\]

Where:

\( F_o \) = Fuel factor based on the ratio of oxygen volume to the ultimate CO\(_2\) volume produced by the fuel at zero percent excess air.
0.209 = Fraction of air that is oxygen, percent/100.
\( F_d \) = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm\(^3\)/J (dscf/10\(^6\) Btu).
\( F_c \) = Ratio of the volume of CO\(_2\) produced to the gross calorific value of the fuel from Method 19, dsm\(^3\)/J (dscf/10\(^6\) Btu)

(ii) Calculate the CO\(_2\) correction factor for correcting measurement data to 15 percent O\(_2\), as follows:

\[
X_{CO2} = \frac{5.9}{F_o} \quad \text{(Eq. 3')}
\]

Where:

\( X_{CO2} \) = CO\(_2\) correction factor, percent.
5.9 = 20.9 percent O\(_2\) - 15 percent O\(_2\), the defined O\(_2\) correction value, percent.

(iii) Calculate the CO, THC, and formaldehyde gas concentrations adjusted to 15 percent O\(_2\) using CO\(_2\) as follows:

\[
C_{adj} = C_d \frac{X_{CO2}}{\%CO2} \quad \text{(Eq. 4')}
\]

Where:

\( C_{adj} \) = Calculated concentration of CO, THC, or formaldehyde adjusted to 15 percent O\(_2\).
\( C_d \) = Measured concentration of CO, THC, or formaldehyde, uncorrected.
\( X_{CO2} \) = CO\(_2\) correction factor, percent.
\( \%CO2 \) = Measured CO\(_2\) concentration measured, dry basis, percent.

40 CFR §63.6620(e) and TAPCR 1200-03-09-.03(8)
F1-11. The permittee must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to 40 CFR part 63 subpart ZZZZ that apply to the permittee within 180 days after startup following issuance of this permit and according to the provisions in 40 CFR § 63.7(a)(2).

<table>
<thead>
<tr>
<th>For each . . .</th>
<th>Complying with the requirement to . . .</th>
<th>The permittee has demonstrated initial compliance if . . .</th>
</tr>
</thead>
</table>
| 13. Existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year | a. Install an oxidation catalyst | i. The permittee has conducted an initial compliance demonstration as specified in § 63.6630(e) to show that the average reduction of emissions of CO is 93 percent or more, or the average CO concentration is less than or equal to 47 ppmvd at 15 percent O₂;  
ii. The permittee has installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in § 63.6625(b), or the permittee has installed equipment to automatically shut down the engine if the catalyst inlet temperature exceeds 1350 °F. |

40 CFR §63.6612(a) and TAPCR 1200-03-09-.03(8)

F1-12. The permittee is not required to conduct an initial performance test on a unit for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs A through D below.

A. The test must have been conducted using the same methods specified in 40 CFR part 63 subpart ZZZZ, and these methods must have been followed correctly.
B. The test must not be older than 2 years.
C. The test must be reviewed and accepted by the Technical Secretary.
D. Either no process or equipment changes must have been made since the test was performed, or the permittee must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes.

40 CFR §63.6612(b) and TAPCR 1200-03-09-.03(8)

F1-13. The permittee must demonstrate initial compliance with each emission limitation, operating limitation, and other requirement that applies to the permittee according to Table 5 of 40 CFR part 63 subpart ZZZZ.

<table>
<thead>
<tr>
<th>For each . . .</th>
<th>Complying with the requirement to . . .</th>
<th>The permittee has demonstrated initial compliance if . . .</th>
</tr>
</thead>
</table>
| 13. Existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year | a. Install an oxidation catalyst | i. The permittee has conducted an initial compliance demonstration as specified in § 63.6630(e) to show that the average reduction of emissions of CO is 93 percent or more, or the average CO concentration is less than or equal to 47 ppmvd at 15 percent O₂;  
ii. The permittee has installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in § 63.6625(b), or the permittee has installed equipment to automatically shut down the engine if the catalyst inlet temperature exceeds 1350 °F. |

40 CFR §63.6630(a) and TAPCR 1200-03-09-.03(8)
F1-14. The initial compliance demonstration required for existing non-emergency 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year must be conducted according to the following requirements:

1. The compliance demonstration must consist of at least three test runs.
2. Each test run must be of at least 15 minute duration, except that each test conducted using the method in appendix A to 40 CFR part 63 subpart ZZZZ must consist of at least one measurement cycle and include at least 2 minutes of test data phase measurement.
3. If the permittee is demonstrating compliance with the CO concentration or CO percent reduction requirement, the permittee must measure CO emissions using one of the CO measurement methods specified in Table 4 of 40 CFR part 63 subpart ZZZZ, or using appendix A to 40 CFR part 63 subpart ZZZZ.
4. If the permittee is demonstrating compliance with the THC percent reduction requirement, the permittee must measure THC emissions using Method 25A, reported as propane, of 40 CFR part 60, appendix A.
5. The permittee must measure O₂ using one of the O₂ measurement methods specified in Table 4 of 40 CFR part 63 subpart ZZZZ. Measurements to determine O₂ concentration must be made at the same time as the measurements for CO or THC concentration.
6. If the permittee is demonstrating compliance with the CO or THC percent reduction requirement, the permittee must measure CO or THC emissions and O₂ emissions simultaneously at the inlet and outlet of the control device.

F1-15. If the permittee must comply with emission and operating limitations, the permittee must monitor and collect data according to Conditions F1-15 through F1-17.

F1-16. Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, the permittee must monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

F1-17. The permittee may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. The permittee must, however, use all the valid data collected during all other periods.

F1-18. The permittee must report each instance in which the permittee 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 part 63 subpart ZZZZ that apply to the permittee. These instances are deviations from the emission and operating limitations in 40 CFR part 63 subpart ZZZZ. These deviations must be reported according to the requirements in 40 CFR § 63.6650. The deviations reports shall be sent to the Field Services Program at the address noted in Condition G3. If the permittee changes catalyst, the permittee must reestablish the values of the operating parameters measured during the initial performance test. When the permittee reestablishes the values of the operating parameters, the permittee must also conduct a performance test to demonstrate that the permittee is meeting the required emission limitation applicable to the stationary RICE. The performance test reports shall be sent to the Compliance Deviation Program at the address noted in Condition G3.

40 CFR §63.6630(e) and TAPCR 1200-03-09-.03(8)

40 CFR §63.6635(a) and TAPCR 1200-03-09-.03(8)

40 CFR §63.6635(b) and TAPCR 1200-03-09-.03(8)

40 CFR §63.6635(c) and TAPCR 1200-03-09-.03(8)

40 CFR §63.6640(b) and TAPCR 1200-03-09-.03(8)
Compliance Method: Determination of whether the required reports were submitted will be based on information available to the Technical Secretary 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.

F1-19. The permittee must conduct the annual compliance demonstration required for existing non-emergency 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year according to the following requirements:

A. The compliance demonstration must consist of at least one test run.
B. Each test run must be of at least 15 minute duration, except that each test conducted using the method in appendix A to 40 CFR part 63 subpart ZZZZ must consist of at least one measurement cycle and include at least 2 minutes of test data phase measurement.
C. If the permittee is demonstrating compliance with the CO concentration or CO percent reduction requirement, the permittee must measure CO emissions using one of the CO measurement methods specified in Table 4 of 40 CFR part 63 subpart ZZZZ, or using appendix A to 40 CFR part 63 subpart ZZZZ.
D. (Reserved)
E. The permittee must measure O₂ using one of the O₂ measurement methods specified in Table 4 of 40 CFR part 63 subpart ZZZZ. Measurements to determine O₂ concentration must be made at the same time as the measurements for CO or THC concentration.
F. If the permittee is demonstrating compliance with the CO or THC percent reduction requirement, the permittee must measure CO or THC emissions and O₂ emissions simultaneously at the inlet and outlet of the control device.
G. If the results of the annual compliance demonstration show that the emissions exceed the levels specified in Table 6 of 40 CFR part 63 subpart ZZZZ, the stationary RICE must be shut down as soon as safely possible, and appropriate corrective action must be taken (e.g., repairs, catalyst cleaning, catalyst replacement). The stationary RICE must be retested within 7 days of being restarted and the emissions must meet the levels specified in Table 6 of 40 CFR part 63 subpart ZZZZ. If the retest shows that the emissions continue to exceed the specified levels, the stationary RICE must again be shut down as soon as safely possible, and the stationary RICE may not operate, except for purposes of startup and testing, until the permittee demonstrates through testing that the emissions do not exceed the levels specified in Table 6 of 40 CFR part 63 subpart ZZZZ.

40 CFR §63.6640(c) and TAPCR 1200-03-09-.03(8)

Compliance Method: Determination of whether the required reports were submitted will be based on information available to the Technical Secretary 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.

F1-20. If the permittee is required to conduct a performance test, the permittee 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).

40 CFR §63.6645(g) and TAPCR 1200-03-09-.03(8)

F1-21. If the permittee is required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to 40 CFR part 63 subpart ZZZZ, the permittee must submit a Notification of Compliance Status according to 40 CFR § 63.9(h)(2)(ii).

40 CFR §63.6645(h) and TAPCR 1200-03-09-.03(8)

F1-22. The permittee must submit each report in Table 7 of 40 CFR part 63 subpart ZZZZ that applies to the permittee. The reports shall be sent to the Field Services Program at the address noted in Condition G3.
For each . . .

<table>
<thead>
<tr>
<th>The permittee must submit a . . .</th>
<th>The report must contain . . .</th>
<th>The permittee must submit the report . . .</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compliance report</td>
<td>a. The results of the annual</td>
<td>a. Semiannually according to the</td>
</tr>
<tr>
<td></td>
<td>compliance demonstration,</td>
<td>requirements in 40 CFR § 63.6650(b)(1)-(5)</td>
</tr>
<tr>
<td></td>
<td>if conducted during the</td>
<td></td>
</tr>
<tr>
<td></td>
<td>reporting period.</td>
<td></td>
</tr>
</tbody>
</table>

3. Existing non-emergency, non-black start 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that operate more than 24 hours per calendar year

40 CFR §63.6650(a) and TAPCR 1200-03-09-.03(8)

F1-23. Unless the Technical Secretary has approved a different schedule for submission of reports under 40 CFR § 63.10(a), the permittee must submit each report by the date in Table 7 of 40 CFR part 63 subpart ZZZZ and according to the requirements in paragraphs (1) through (4) below. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

(1) For semiannual Compliance reports, the first Compliance report must cover the period beginning on the date that this permit is issued and ending on June 30 or December 31, whichever date is the first date following the date that this permit is issued.

(2) For semiannual Compliance reports, the first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end date of the semiannual reporting period.

(3) For semiannual Compliance reports, each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) For semiannual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

40 CFR §63.6650(b) and TAPCR 1200-03-09-.03(8)

F1-24. The Compliance report must contain the information in paragraphs (1) through (6) 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 the permittee 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 the permittee 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 the permittee, a statement that there were no deviations from the emission or operating limitations during the reporting period.

(6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in 40 CFR § 63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.
For each deviation from an emission or operating limitation that occurs for a stationary RICE where the permittee is not using a CMS to comply with the emission or operating limitations in 40 CFR part 63 subpart ZZZZ, the Compliance report must contain the information in paragraphs (1) through (4) of Condition F1-24 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.

For each CEMS or CPMS, the permittee must keep the records listed in paragraphs (1) through (3) below.

(1) Records described in 40 CFR § 63.10(b)(2)(vi) through (xi).

(2) Previous (i.e., superseded) versions of the performance evaluation plan as required in 40 CFR § 63.8(d)(3).

(3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in 40 CFR § 63.8(f)(6)(i), if applicable.

For each deviation from an emission or operating limitation that occurs for a stationary RICE where the permittee is not using a CMS to comply with the emission or operating limitations in 40 CFR part 63 subpart ZZZZ, the Compliance report must contain the information in paragraphs (1) through (4) of Condition F1-24 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.

For each CEMS or CPMS, the permittee must keep the records listed in paragraphs (1) through (3) below.

(1) Records described in 40 CFR § 63.10(b)(2)(vi) through (xi).

(2) Previous (i.e., superseded) versions of the performance evaluation plan as required in 40 CFR § 63.8(d)(3).

(3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in 40 CFR § 63.8(f)(6)(i), if applicable.

The permittee must keep the records required in Table 6 of part 63 subpart ZZZZ to show continuous compliance with each emission or operating limitation that applies to the permittee.

40 CFR §63.6650(c) and TAPCR 1200-03-09-.03(8)
F1-29. The permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to the permittee’s own maintenance plan if the permittee owns or operates any of the following stationary RICE:

1. An existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions.

2. An existing stationary emergency RICE.

3. An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to 40 CFR part 63 subpart ZZZZ.

40 CFR §63.6655(e) and TAPCR 1200-03-09-.03(8)

<table>
<thead>
<tr>
<th>Source No</th>
<th>Source Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>Natural Gas Processing Plant (formerly part of Facility 37-0123), with:</td>
</tr>
<tr>
<td></td>
<td>25 MMscfd cryogenic plant, with a 3.9 MMBtu per hour regeneration heater. The heater is an insignificant emissions unit.</td>
</tr>
<tr>
<td></td>
<td>5 MMscfd triethylene glycol dehydration unit with a 0.2 MMBtu per hour glycol regeneration heater. The heater is an insignificant emissions unit.</td>
</tr>
<tr>
<td></td>
<td>Demethanizer unit</td>
</tr>
<tr>
<td></td>
<td>Two pressurized Natural gas liquids tanks</td>
</tr>
</tbody>
</table>

S2-1. Input Limitation(s) or Statement(s) of Design

*Not applicable*

S2-2. Production Limitation(s)

Total natural gas processed by the triethylene glycol dehydration unit shall not exceed 1,825 million standard cubic feet of dry natural gas during every period of 12 consecutive months.

TAPCR 1200-03-09-.02(6)

**Compliance Method:** A record of the natural gas processed monthly for this source, in the following format or an alternative format that readily shows compliance with this condition must be maintained at the source location and kept available for inspection by the Technical Secretary or a Division representative. This record must be retained for a period of not less than five years.
The natural gas processed per twelve consecutive months value is the sum of the natural gas processed (MMSCF) in the eleven months preceding the month just completed + the natural gas processed (in MMSCF) in the month just completed.

TAPCR 1200-03-10-.02(2)(a)

S2-3. **Operating Hour Limitation(s)**

Not applicable

S2-4. **Emission Limitation(s)**

A. Volatile organic compounds (VOC) emitted from this source shall not exceed 16.33 tons during any period of 12-consecutive months.

TAPCR 1200-03-07-.07(2) and the application dated February 7, 2022

**Compliance Method:** Compliance with this emission limitation is assured by information and calculations from the application dated February 7, 2022.

S2-5. **Source-Specific Visible Emissions Limitation(s)**

Not applicable

**40 CFR 63, Subpart HH**

F2-1. The permittee is exempt from the requirements of 40 CFR §63.764(d), provided that the following requirement is met: the actual average emissions of benzene from the glycol dehydration unit process vent to the atmosphere are less than 0.90 megagrams per year, as determined by the procedures specified in **Condition F2-2** of this permit.

40 CFR §63.764(e)(ii) and TAPCR 1200-03-09-.03(8)

**Compliance Method:** Compliance with this exemption requirement shall be demonstrated by the procedures specified in **Condition F2-2** of this permit. If this exemption requirement is not met, compliance with 40 CFR §63.764(d) shall be demonstrated by the procedures described in **Condition F2-3** of this permit, and an initial notification shall also be submitted in accordance with 40 CFR §63.775(c)(7) as described in **Condition F2-4** of this permit.
**F2-2.** In order to show compliance with the exemption requirement in **Condition F2-1** of this permit, the determination of actual average benzene emissions from this source shall be made using the procedure indicated below.

1) The permittee shall determine actual average benzene or BTEX emissions using the model GRI-GLYCalc™, Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalc™ Technical Reference Manual. Inputs to the model shall be representative of actual operating conditions of the glycol dehydration unit and may be determined using the procedures documented in the Gas Research Institute (GRI) report entitled “Atmospheric Rich/Lean Method for Determining Glycol Dehydrator Emissions” (GRI-95/0368.1).

40 CFR §63.772(b)(2), 40 CFR §63.774(d)(1)(ii) and TAPCR 1200-03-09-.03(8)

**Compliance Method:** Compliance with this limitation shall be demonstrated by maintaining records of actual average benzene emissions (in terms of benzene emissions per year) as determined in accordance with this condition.

**F2-3.** If the exemption requirement in **Condition F2-1** of this permit is not met, this source shall become subject to the provisions of 40 CFR §63.764(d). The permittee shall determine the optimum glycol circulation rate and operate the TEG dehydration unit using the following procedure:

1) Determine the optimum glycol circulation rate using the following equation:

\[ L_{OPT} = 1.15 \times 3.0 \times \frac{gal \ TEG}{lb \ H_2O} \times \left( \frac{F \times (I - O)}{24 \ hr/day} \right) \]

\( L_{OPT} \) = Optimal circulation rate, gal/hr.
\( F \) = Gas flowrate (MMSCF/D).
\( I \) = Inlet water content (lb/MMSCF).
\( O \) = Outlet water content (lb/MMSCF).
3.0 = The industry accepted rule of thumb for a TEG-to water ratio (gal TEG/lb H₂O).
1.15 = Adjustment factor included for a margin of safety.

2) Operate the TEG dehydration unit such that the actual glycol circulation rate does not exceed the optimum glycol circulation rate determined in accordance with this condition. If the TEG dehydration unit is unable to meet the sales gas specification for moisture content using the glycol circulation rate determined in accordance with this condition, the permittee must calculate an alternate circulation rate using GRI-GLYCalc™, Version 3.0 or higher. The permittee must document why the TEG dehydration unit must be operated using the alternate circulation rate and submit this documentation with the initial notification in accordance with 40 CFR §63.775(c)(7).

40 CFR §63.764(d) and TAPCR 1200-03-09-.03(8)

**Compliance Method:** None. This is a statement applicability of 40 CFR §63.764(d) if the exemption requirement in **Condition F2-1** of this permit is not met. Upon submittal of the initial notification required by **Condition F2-4** of this permit if the exemption requirement in **Condition F2-1** of this permit is not met, this permit shall be amended with the applicable 40 CFR §63.764(d) requirements.

**F2-4.** The permittee shall submit an initial notification to the Technical Secretary within one year after the affected source becomes subject to the provisions of 40 CFR §63.764(d). The initial notification shall contain the following, in accordance with 40 CFR §63.775(c)(7):
1) Documentation of the source's location relative to the nearest UA plus offset and UC boundaries. This information shall include the latitude and longitude of the affected source; whether the source is located in an urban cluster with 10,000 people or more; the distance in miles to the nearest urbanized area boundary if the source is not located in an urban cluster with 10,000 people or more; and the name of the nearest urban cluster with 10,000 people or more and nearest urbanized area.

2) Calculation of the optimum glycol circulation rate determined in accordance with 40 CFR §63.764(d)(2)(i).

3) If applicable, documentation of the alternate glycol circulation rate calculated using GRI-GLYCalcTM, Version 3.0 or higher and documentation stating why the TEG dehydration unit must operate using the alternate glycol circulation rate.

4) The name of the manufacturer and the model number of the glycol circulation pump(s) in operation.

5) Statement by a responsible official, with that official's name, title, and signature, certifying that the facility will always operate the glycol dehydration unit using the optimum circulation rate determined in accordance with 40 CFR §63.764(d)(2)(i) or 40 CFR §63.764(d)(2)(ii), as applicable.

40 CFR §§63.775(b)(1)(i), 63.775(c)(7) and TAPCR 1200-03-09-.03(8)

**40 CFR 60, Subpart KKK**

The source is subject to 40 CFR Part 60 Subpart KKK, Standards for Performance for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants for which Construction, Reconstruction, or Modification Commenced after January 20, 1984, and on or before August 23, 2011. The source must comply with requirements from 40 CFR Part 60 Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006, specified herein in Conditions F4-7 through F4-21 only as specified in 40 CFR Part 60 Subpart KKK and Conditions F3-1 through F3-6.

The source may use an optical gas imaging instrument for alternative monitoring for fugitive emissions instead of a 40 CFR Part 60, appendix A-7, Method 21 monitor to comply with 40 CFR Part 60, Subpart KKK requirements. Approval for the use of this procedure was requested by the permittee pursuant to 40 CFR 60.18(g), (h) and (i) and was approved by the Division effective April 24, 2019, through Amendment #1 to permit 073577.

**F3-1. 40 CFR §60.630 Applicability and designation of affected facility.**

(a) Reserved

(1) The provisions of 40 CFR Part 60 Subpart KKK apply to affected facilities in onshore natural gas processing plants.

(2) A compressor in VOC service or in wet gas service is an affected facility.

(3) The group of all equipment except compressors (a piece of equipment that increases the pressure of process gas by positive displacement, employing linear movement of the driveshaft) within a process unit is an affected facility.

(b) Reserved
(c) Addition or replacement of equipment (defined in 40 CFR §60.631) for the purpose of process improvement that is accomplished without a capital expenditure shall not by itself be considered a modification under 40 CFR Part 60 Subpart KKK.

(d) Facilities covered by 40 CFR Part 60 Subpart VV or GGG are excluded from 40 CFR Part 60 Subpart KKK.

(e) A compressor station, dehydration unit, sweetening unit, underground storage tank, field gas gathering system, or liquefied natural gas unit is covered by 40 CFR Part 60 Subpart KKK if it is located at an onshore natural gas processing plant. If the unit is not located at the plant site, then it is exempt from the provisions of 40 CFR Part 60 Subpart KKK.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.630

Compliance Method: None. This is a statement of applicability of the rule.

F3-2. 40 CFR §60.632 Standards

(a) The permittee shall comply with the requirements of Conditions F3-7(a), (b), and (d) and F3-8 through F3-16, except as provided in Condition F3-3.

(b) The permittee may elect to comply with the requirements of Conditions F3-17 and F3-18.

(c) The permittee may apply to the EPA Administrator for permission to use an alternative means of emission limitation that achieves a reduction in emissions of VOC at least equivalent to that achieved by the controls required in 40 CFR Part 60 Subpart KKK. In doing so, the permittee shall comply with requirements of Condition F3-4.

(d) The permittee shall comply with the provisions of Condition F3-19 except as provided in Condition F3-3(f).

(e) The permittee shall comply with the provisions of Conditions F3-20 and F3-21 except as provided in Conditions F3-3, F3-5, and F3-6.

(f) The permittee shall use the following provision instead of Condition F3-19(d)(1): Each piece of equipment is presumed to be in VOC service or in wet gas service unless the permittee demonstrates that the piece of equipment is not in VOC service or in wet gas service. For a piece of equipment to be considered not in VOC service, it must be determined that the VOC content can be reasonably expected never to exceed 10.0 percent by weight. For a piece of equipment to be considered in wet gas service, it must be determined that it contains or contacts the field gas before the extraction step in the process. For purposes of determining the percent VOC content of the process fluid that is contained in or contacts a piece of equipment, procedures that conform to the methods described in ASTM E169-63, 77, or 93, E168-67, 77, or 92, or E260-73, 91, or 96 (incorporated by reference as specified in 40 CFR §60.17) shall be used.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.632

Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5, F3-20 and F3-22. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

F3-3. 40 CFR §60.633 Exceptions

(a) The permittee may comply with the following exceptions to the provisions of 40 CFR Part 60 Subpart VV.
(b) Reserved

(1) Each pressure relief device in gas/vapor service may be monitored quarterly and within 5 days after each pressure release to detect leaks by the methods specified in Condition F3-19(b) except as provided in Conditions F3-2(c), F3-3(b)(4), and F3-10(a) through (c).

(2) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

(3) Reserved

(i) When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after it is detected, except as provided in Condition F3-15.

(ii) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

(4) Reserved

(i) Any pressure relief device that is located in a nonfractionating plant that is monitored only by nonplant personnel may be monitored after a pressure release the next time the monitoring personnel are on site, instead of within 5 days as specified in Conditions F3-3(b)(1) and F3-10(b)(1).

(ii) No pressure relief device described in Condition F3-3(b)(4)(i) shall be allowed to operate for more than 30 days after a pressure release without monitoring.

(c) Sampling connection systems are exempt from the requirements of Condition F3-11.

(d) Pumps in light liquid service, valves in gas/vapor and light liquid service, and pressure relief devices in gas/vapor service that are located at a nonfractionating plant that does not have the design capacity to process 283,200 standard cubic meters per day (scmd) (10 million standard cubic feet per day) or more of field gas are exempt from the routine monitoring requirements of Conditions F3-8(a)(1), F3-13(a), and F3-3(b)(1).

(e) Reserved

(f) Reciprocating compressors in wet gas service are exempt from the compressor control requirements of Condition F3-9.

(g) Reserved

(h) The permittee may use the following provisions instead of Condition F3-19(e):

(1) Equipment is in heavy liquid service if the weight percent evaporated is 10 percent or less at 150 °C (302 °F) as determined by ASTM Method D86-78, 82, 90, 95, or 96 (incorporated by reference as specified in 40 CFR §60.17).

(2) Equipment is in light liquid service if the weight percent evaporated is greater than 10 percent at 150 °C (302 °F) as determined by ASTM Method D86-78, 82, 90, 95, or 96 (incorporated by reference as specified in 40 CFR §60.17).

TAPCR 1200-03-09-.03(8) and 40 CFR §60.633
Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5, F3-20 and F3-22. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

F3-4. 40 CFR §60.634 Alternative means of emission limitation

(a) If, in the EPA Administrator's judgment, an alternative means of emission limitation will achieve a reduction in VOC emissions at least equivalent to the reduction in VOC emissions achieved under any design, equipment, work practice or operational standard, the EPA Administrator will publish, in the FEDERAL REGISTER a notice permitting the use of that alternative means for the purpose of compliance with that standard. The notice may condition permission on requirements related to the operation and maintenance of the alternative means.

(b) Any notice under Condition F3-4(a) of this permit shall be published only after notice and an opportunity for a public hearing.

(c) The EPA Administrator will consider applications under this condition from either owners or operators of affected facilities, or manufacturers of control equipment.

(d) The EPA Administrator will treat applications under this condition according to the following criteria, except in cases where he concludes that other criteria are appropriate:

(1) The applicant must collect, verify and submit test data, covering a period of at least 12 months, necessary to support the finding in Condition F3-4(a) of this permit.

(2) The permittee must commit in writing to operate and maintain the alternative means so as to achieve a reduction in VOC emissions at least equivalent to the reduction in VOC emissions achieved under the design, equipment, work practice or operational standard.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.634

Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5, F3-20 and F3-22. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

F3-5. 40 CFR §60.635 Recordkeeping requirements

(a) The permittee shall comply with the requirements of Conditions F3-5(b) and (c) in addition to the requirements of Condition F3-20.

(b) The following recordkeeping requirements shall apply to pressure relief devices subject to the requirements of Condition F3-3(b)(1).

(1) When each leak is detected as specified in Condition F3-3(b)(2), a weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment. The identification on the pressure relief device may be removed after it has been repaired.

(2) When each leak is detected as specified in Condition F3-3(b)(2), the following information shall be recorded in a log and shall be kept for 2 years in a readily accessible location:
The instrument and operator identification numbers and the equipment identification number.

The date the leak was detected and the dates of each attempt to repair the leak.

Repair methods applied in each attempt to repair the leak.

“Above 10,000 ppm” if the maximum instrument reading measured by the methods specified in Condition F3-5(a) of this permit after each repair attempt is 10,000 ppm or greater.

“Repair delayed” and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.

The signature of the permittee (or designate) whose decision it was that repair could not be effected without a process shutdown.

The expected date of successful repair of the leak if a leak is not repaired within 15 days.

Dates of process unit shutdowns that occur while the equipment is unrepaired.

The date of successful repair of the leak.

A list of identification numbers for equipment that are designated for no detectable emissions under the provisions of Condition F3-10(a). The designation of equipment subject to the provisions of Condition F3-10(a) shall be signed by the permittee.

The permittee shall comply with the following requirement in addition to the requirement of Condition F3-20(j): Information and data used to demonstrate that a reciprocating compressor is in wet gas service to apply for the exemption in Condition F3-3(f) shall be recorded in a log that is kept in a readily accessible location.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.635

Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5, F3-20 and F3-22. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

F3-6. 40 CFR §60.636 Reporting requirements

The permittee shall comply with the requirements of Conditions F3-6(b) and (c) of this permit in addition to the requirements of Condition F3-21.

The permittee shall include the following information in the initial semiannual report in addition to the information required in Condition F3-21(b)(1) through (4): Number of pressure relief devices subject to the requirements of Condition F3-3(b) except for those pressure relief devices designated for no detectable emissions under the provisions of Condition F3-10(a) and those pressure relief devices complying with Condition F3-10(c).

The permittee shall include the following information in all semiannual reports in addition to the information required in Condition F3-21(c)(2)(i) through (vi):
(1) Number of pressure relief devices for which leaks were detected as required in Condition F3-3(b)(2) and

(2) Number of pressure relief devices for which leaks were not repaired as required in Condition F3-3(b)(3).

TAPCR 1200-03-09-.03(8) and 40 CFR §60.636

Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5, F3-20 and F3-22. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

40 CFR Part 60 Subpart VV requirements for compliance with 40 CFR Part 60 Subpart KKK

The source must comply with requirements from 40 CFR Part 60 Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006, specified herein in Conditions F3-7 through F3-21 only as specified in 40 CFR Part 60 Subpart KKK and Conditions F3-1 through F3-6 of this permit.

F3-7. 40 CFR §60.482-1 Standards General

(a) The permittee shall demonstrate compliance with the requirements of Conditions F3-7 through F3-16 or 40 CFR §60.480(e) for all equipment.

(b) Compliance with Conditions F3-7 through F3-16 will be determined by review of records and reports, review of performance test results, and inspection using the methods and procedures specified in Condition F3-19.

(c)

(1) The permittee may request a determination of equivalence of a means of emission limitation to the requirements of Conditions F3-8, F3-9, F3-11, F3-12, F3-13, F3-14 and F3-16 as provided in 40 CFR § 60.484.

(2) If the Technical Secretary makes a determination that a means of emission limitation is at least equivalent to the requirements of 40 CFR § 60.482-2, § 60.482-3, § 60.482-5, § 60.482-6, § 60.482-7, § 60.482-8, or § 60.482-10 (in Conditions F3-8, F3-9, F3-11, F3-12, F3-13, F3-14 or F3-16), the permittee shall comply with the requirements of that determination.

(d) Equipment that is in vacuum service is excluded from the requirements of Conditions F3-7 through F3-16 if it is identified as required in Condition F3-20(e)(5).

(e) Equipment that the permittee designates as being in VOC service less than 300 hours (hr)/yr is excluded from the requirements of Conditions F3-8 through F3-16 if it is identified as required in Condition F3-20(e)(6) and it meets any of the conditions specified in Conditions F3-7(e)(1) through (3).

(1) The equipment is in VOC service only during startup and shutdown, excluding startup and shutdown between batches of the same campaign for a batch process.
(2) The equipment is in VOC service only during process malfunctions or other emergencies.

(3) The equipment is backup equipment that is in VOC service only when the primary equipment is out of service.

(f)

(1) If a dedicated batch process unit operates less than 365 days during a year, the permittee may monitor to detect leaks from pumps and valves at the frequency specified in the following table instead of monitoring as specified in Conditions F3-8, F3-13, and F3-18:

<table>
<thead>
<tr>
<th>Operating time (percent of hours during year)</th>
<th>Equivalent monitoring frequency time in use</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Monthly</td>
</tr>
<tr>
<td>0 to &lt;25</td>
<td>Quarterly</td>
</tr>
<tr>
<td>25 to &lt;50</td>
<td>Quarterly</td>
</tr>
<tr>
<td>50 to &lt;75</td>
<td>Bimonthly</td>
</tr>
<tr>
<td>75 to 100</td>
<td>Monthly</td>
</tr>
</tbody>
</table>

(2) Pumps and valves that are shared among two or more batch process units that are subject to 40 CFR part 63 subpart ZZZZ may be monitored at the frequencies specified in Condition F3-7(f)(1), provided the operating time of all such process units is considered.

(3) The monitoring frequencies specified in Condition F3-7(f)(1) are not requirements for monitoring at specific intervals and can be adjusted to accommodate process operations. The permittee may monitor at any time during the specified monitoring period (e.g., month, quarter, year), provided the monitoring is conducted at a reasonable interval after completion of the last monitoring campaign. Reasonable intervals are defined in Conditions F3-7(f)(3)(i) through (iv).

(i) When monitoring is conducted quarterly, monitoring events must be separated by at least 30 calendar days.

(ii) When monitoring is conducted semiannually (i.e., once every 2 quarters), monitoring events must be separated by at least 60 calendar days.

(iii) When monitoring is conducted in 3 quarters per year, monitoring events must be separated by at least 90 calendar days.

(iv) When monitoring is conducted annually, monitoring events must be separated by at least 120 calendar days.

(g) If the storage vessel is shared with multiple process units, the process unit with the greatest annual amount of stored materials (predominant use) is the process unit the storage vessel is assigned to. If the storage vessel is shared equally among process units, and one of the process units has equipment subject to 40 CFR part 60 subpart VVa, the storage vessel is assigned to that process unit. If the storage vessel is shared equally among process units, none of which have equipment subject to 40 CFR part 60 subpart VVa, the storage vessel is assigned to any process unit subject to 40 CFR part 63 subpart ZZZZ. If the predominant use of the storage vessel varies from year to year, then the permittee must estimate the predominant use initially and reassess every 3 years. The permittee must keep records of the information and supporting calculations that show how predominant use is determined. All equipment on the storage vessel must be monitored when in VOC service.
Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5 and F3-20. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

F3-8. 40 CFR §60.482-2 Standards: Pumps in light liquid service

(a) Reserved

(1) Each pump in light liquid service shall be monitored monthly to detect leaks by the methods specified in Condition F3-19(b), except as provided in Conditions F3-7(c) and (f) and Conditions F3-8(d), (e), and (f). A pump that begins operation in light liquid service after the initial startup date for the process unit must be monitored for the first time within 30 days after the end of its startup period, except for a pump that replaces a leaking pump and except as provided in Conditions F3-7(c) and (f) and Conditions F3-8(d), (e), and (f).

(2) Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal, except as provided in Condition F3-7(f).

(b) Reserved

(1) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

(2) If there are indications of liquids dripping from the pump seal, the permittee shall follow the procedure specified in either Conditions F3-8(b)(2)(i) or (ii). This requirement does not apply to a pump that was monitored after a previous weekly inspection if the instrument reading for that monitoring event was less than 10,000 ppm and the pump was not repaired since that monitoring event.

   (i) Monitor the pump within 5 days as specified in Condition F3-19(b). If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. The leak shall be repaired using the procedures in Condition F3-8(c).

   (ii) Designate the visual indications of liquids dripping as a leak, and repair the leak within 15 days of detection by eliminating the visual indications of liquids dripping.

(c) Reserved

(1) When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in Condition F3-15.

(2) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempts at repair include, but are not limited to, the practices described in Conditions F3-8(c)(2)(i) and (ii), where practicable.

   (i) Tightening the packing gland nuts;

   (ii) Ensuring that the seal flush is operating at design pressure and temperature.
Each pump equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of Condition F3-8(a) of this permit, provided the requirements specified in Conditions F3-8(d)(1) through (6) of this permit are met.

(1) Each dual mechanical seal system is—

(i) Operated with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or

(ii) Equipped with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed vent system to a control device that complies with the requirements of Condition F3-16 of this permit; or

(iii) Equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere.

(2) The barrier fluid system is in heavy liquid service or is not in VOC service.

(3) Each barrier fluid system is equipped with a sensor that will detect failure of the seal system, the barrier fluid system, or both.

(4) Reserved

(i) Each pump is checked by visual inspection, each calendar week, for indications of liquids dripping from the pump seals.

(ii) If there are indications of liquids dripping from the pump seal at the time of the weekly inspection, the permittee shall follow the procedure specified in either Conditions F3-8(d)(4)(ii)(A) or (B) of this permit.

(A) Monitor the pump within 5 days as specified in Condition F3-19(b) of this permit to determine if there is a leak of VOC in the barrier fluid. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

(B) Designate the visual indications of liquids dripping as a leak.

(5) Reserved

(i) Each sensor as described in Condition F3-8(d)(3) of this permit is checked daily or is equipped with an audible alarm.

(ii) The permittee determines, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both.

(iii) If the sensor indicates failure of the seal system, the barrier fluid system, or both, based on the criterion established in Condition F3-8(d)(5)(ii) of this permit, a leak is detected.

(6) Reserved

(i) When a leak is detected pursuant to Condition F3-8(d)(4)(ii)(A), it shall be repaired as specified in Condition F3-8(c) of this permit.
(ii) A leak detected pursuant to Condition F3-8(d)(5)(iii) of this permit shall be repaired within 15 days of detection by eliminating the conditions that activated the sensor.

(iii) A designated leak pursuant to Condition F3-8(d)(4)(ii)(B) of this permit shall be repaired within 15 days of detection by eliminating visual indications of liquids dripping.

(e) Any pump that is designated, as described in Conditions F3-20(e)(1) and (2) of this permit, for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of Conditions F3-8(a), (b) and (d) of this permit if the pump:

1. Has no externally actuated shaft penetrating the pump housing,
2. Is demonstrated to be operating with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background as measured by the methods specified in Condition F3-19(e), and
3. Is tested for compliance with Condition F3-8(e)(2) of this permit initially upon designation, annually, and at other times requested by the Technical Secretary.

(f) If any pump is equipped with a closed vent system capable of capturing and transporting any leakage from the seal or seals to a process or to a fuel gas system or to a control device that complies with the requirements of Condition F3-16 of this permit, it is exempt from Conditions F3-8(a) through (e) of this permit.

(g) Any pump that is designated, as described in Condition F3-20(f)(1) of this permit, as an unsafe-to-monitor pump is exempt from the monitoring and inspection requirements of Conditions F3-8(a) and F3-8(d)(4) through (6) of this permit if:

1. The permittee demonstrates that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with Condition F3-8(a) of this permit; and
2. The permittee has a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in Condition F3-8(c) of this permit if a leak is detected.

(h) Any pump that is located within the boundary of an unmanned plant site is exempt from the weekly visual inspection requirement of Conditions F3-8(a)(2) and F3-8(d)(4) of this permit, and the daily requirements of Condition F3-8(d)(5) of this permit, provided that each pump is visually inspected as often as practicable and at least monthly.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.482-2

Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5 and F3-20 of this permit. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

F3-9. 40 CFR §60.482-3 Standards: Compressors

(a) Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as provided in Conditions F3-7(c), F3-9(h), F3-9(i) and F3-9(j) of this permit.
(b) Each compressor seal system as required in Condition F3-9(a) of this permit shall be:

(1) Operated with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or

(2) Equipped with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed vent system to a control device that complies with the requirements of Condition F3-16 of this permit; or

(3) Equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere.

(c) The barrier fluid system shall be in heavy liquid service or shall not be in VOC service.

(d) Each barrier fluid system as described in Condition F3-9(a) of this permit shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both.

(e) Reserved

(1) Each sensor as required in Condition F3-9(d) of this permit shall be checked daily or shall be equipped with an audible alarm.

(2) The permittee shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both.

(f) If the sensor indicates failure of the seal system, the barrier system, or both based on the criterion determined under Condition F3-9(e)(2) of this permit, a leak is detected.

(g) Reserved

(1) When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in Condition F3-15 of this permit.

(2) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

(h) A compressor is exempt from the requirements of Conditions F3-9(a) and (b) of this permit, if it is equipped with a closed vent system to capture and transport leakage from the compressor drive shaft back to a process or fuel gas system or to a control device that complies with the requirements of Condition F3-16 of this permit, except as provided in Condition F3-9(i) of this permit.

(i) Any compressor that is designated, as described in Conditions F3-20(e)(1) and (2) of this permit, for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of Conditions F3-9(a) through (h) if the compressor:

(1) Is demonstrated to be operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the methods specified in Condition F3-19(e) of this permit; and

(2) Is tested for compliance with Condition F3-9(i)(1) of this permit initially upon designation, annually, and at other times requested by the Technical Secretary.

(j) Any existing reciprocating compressor in a process unit which becomes an affected facility under provisions of 40 CFR §60.14 or §60.15 is exempt from Conditions F3-9(a) through (e) and (h) of this
permit, provided the permittee demonstrates that recasting the distance piece or replacing the compressor are the only options available to bring the compressor into compliance with the provisions of Conditions F3-9(a) through (e) and (h) of this permit.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.482-3

Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5 and F3-20 of this permit. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

F3-10. 40 CFR §60.482-4 Standards: Pressure relief devices in gas/vapor service

(a) Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in Condition F3-19(c) of this permit.

(b) Reserved

(1) After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after the pressure release, except as provided in Condition F3-15 of this permit.

(2) No later than 5 calendar days after the pressure release, the pressure relief device shall be monitored to confirm the conditions of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, by the methods specified in Condition F3-19(c) of this permit.

(c) Any pressure relief device that is routed to a process or fuel gas system or equipped with a closed vent system capable of capturing and transporting leakage through the pressure relief device to a control device as described in Condition F3-16 is exempted from the requirements of Conditions F3-10(a) and (b) of this permit.

(d) Reserved

(1) Any pressure relief device that is equipped with a rupture disk upstream of the pressure relief device is exempt from the requirements of Conditions F3-10(a) and (b) of this permit, provided the permittee complies with the requirements in Condition F3-10(d)(2) of this permit.

(2) After each pressure release, a new rupture disk shall be installed upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in Condition F3-15 of this permit.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.482-4

Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5 and F3-20 of this permit. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

F3-11. 40 CFR §60.482-5 Standards: Sampling connection systems
(a) Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system, except as provided in Conditions F3-7(c) and F3-11(c) of this permit.

(b) Each closed-purge, closed-loop, or closed-vent system as required in Condition F3-11(a) of this permit shall comply with the requirements specified in Conditions F3-11(b)(1) through (4) of this permit.

(1) Gases displaced during filling of the sample container are not required to be collected or captured.

(2) Containers that are part of a closed-purge system must be covered or closed when not being filled or emptied.

(3) Gases remaining in the tubing or piping between the closed-purge system valve(s) and sample container valve(s) after the valves are closed and the sample container is disconnected are not required to be collected or captured.

(4) Each closed-purge, closed-loop, or closed-vent system shall be designed and operated to meet requirements in either Condition F3-11(b)(4)(i), (ii), (iii) or (iv) of this permit.

(i) Return the purged process fluid directly to the process line.

(ii) Collect and recycle the purged process fluid to a process.

(iii) Capture and transport all the purged process fluid to a control device that complies with the requirements of Condition F3-16 of this permit.

(iv) Collect, store, and transport the purged process fluid to any of the following systems or facilities:

(A) A waste management unit as defined in 40 CFR §63.111, if the waste management unit is subject to and operated in compliance with the provisions of 40 CFR Part 63, Subpart G, applicable to Group 1 wastewater streams;

(B) A treatment, storage, or disposal facility subject to regulation under 40 CFR Part 262, 264, 265, or 266;

(C) A facility permitted, licensed, or registered by a state to manage municipal or industrial solid waste, if the process fluids are not hazardous waste as defined in 40 CFR Part 261;

(D) A waste management unit subject to and operated in compliance with the treatment requirements of 40 CFR §61.348(a), provided all waste management units that collect, store, or transport the purged process fluid to the treatment unit are subject to and operated in compliance with the management requirements of 40 CFR §§61.343 through 61.347; or

(E) A device used to burn off-specification used oil for energy recovery in accordance with 40 CFR Part 279, Subpart G, provided the purged process fluid is not hazardous waste as defined in 40 CFR Part 261.

(c) In situ sampling systems and sampling systems without purges are exempt from the requirements of Conditions F3-11(a) and (b) of this permit.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.482-5
Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5 and F3-20 of this permit. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

F3-12. 40 CFR §60.482-6 Standards: Open-ended valves or lines

(a) Reserved

(1) Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in Conditions F3-7(c), F3-12(d) and F3-12(e) of this permit.

(2) The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line.

(b) Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

(c) When a double block-and-bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with Condition F3-12(a) of this permit at all other times.

(d) Open-ended valves or lines in an emergency shutdown system which are designed to open automatically in the event of a process upset are exempt from the requirements of Conditions F3-12(a), (b) and (c) of this permit.

(e) Open-ended valves or lines containing materials which would autocatalytically polymerize or would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system as specified in Conditions F3-12(a) through (c) of this permit are exempt from the requirements of Conditions F3-12(a) through (c) of this permit.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.482-6

Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5 and F3-20 of this permit. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

F3-13. 40 CFR §60.482-7 Standards: Valves in gas/vapor service and light liquid service

(a) Reserved

(1) Each valve shall be monitored monthly to detect leaks by the methods specified in Condition F3-19(b) of this permit and shall comply with Conditions F3-13(b) through (e) of this permit, except as provided in Conditions F3-13(f), (g) and (h), F3-7(c) and (f), and Conditions F3-17 and F3-18 of this permit.

(2) A valve that begins operation in gas/vapor service or light liquid service after the initial startup date for the process unit must be monitored according to Conditions F3-13(a)(2)(i) or (ii) of this permit, except for a valve that replaces a leaking valve and except as provided in Conditions F3-13(f), (g) and (h), F3-7(c), F3-17 and F3-18 of this permit.
Monitor the valve as in Conditions F3-13(a)(1) of this permit. The valve must be monitored for the first time within 30 days after the end of its startup period to ensure proper installation.

If the valves on the process unit are monitored in accordance with Conditions F3-17 or F3-18 of this permit, count the new valve as leaking when calculating the percentage of valves leaking as described in Condition F3-18(b)(5) of this permit. If less than 2.0 percent of the valves are leaking for that process unit, the valve must be monitored for the first time during the next scheduled monitoring event for existing valves in the process unit or within 90 days, whichever comes first.

If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

Reserved

Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected.

As an alternative to monitoring all of the valves in the first month of a quarter, the permittee may elect to subdivide the process unit into 2 or 3 subgroups of valves and monitor each subgroup in a different month during the quarter, provided each subgroup is monitored every 3 months. The permittee must keep records of the valves assigned to each subgroup.

If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 successive months.

Reserved

When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in Condition F3-15 of this permit.

A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

First attempts at repair include, but are not limited to, the following best practices where practicable:

Tightening of bonnet bolts;
Replacement of bonnet bolts;
Tightening of packing gland nuts;
Injection of lubricant into lubricated packing.

Any valve that is designated, as described in Condition F3-20(e)(2) of this permit, for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of Condition F3-13(a) of this permit if the valve:

Has no external actuating mechanism in contact with the process fluid,
Is operated with emissions less than 500 ppm above background as determined by the method specified in Condition F3-19(e) of this permit, and
(3) Is tested for compliance with **Condition F3-13(f)(2)** of this permit initially upon designation, annually, and at other times requested by the Technical Secretary.

(g) Any valve that is designated, as described in **Condition F3-20(f)(1)** of this permit, as an unsafe-to-monitor valve is exempt from the requirements of **Condition F3-13(a)** of this permit if:

1. The permittee demonstrates that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with **Condition F3-13(a)** of this permit, and
2. The permittee adheres to a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times.

(h) Any valve that is designated, as described in **Condition F3-20(f)(2)** of this permit, as a difficult-to-monitor valve is exempt from the requirements of **Condition F3-13(a)** of this permit if:

1. The permittee demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface.
2. The process unit within which the valve is located either becomes an affected facility through 40 CFR §60.14 or §60.15 or the permittee designates less than 3.0 percent of the total number of valves as difficult-to-monitor, and
3. The permittee follows a written plan that requires monitoring of the valve at least once per calendar year.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.482-7

**Compliance Method:** Compliance with this condition may be determined from the records required by **Conditions F3-2, F3-3, F3-4, F3-5 and F3-20** of this permit. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in **Condition G3**.

**F3-14. 40 CFR §60.482-8 Standards: Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors**

(a) If evidence of a potential leak is found by visual, audible, olfactory, or any other detection method at pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors, the permittee shall follow either one of the following procedures:

1. The permittee shall monitor the equipment within 5 days by the method specified in **Condition F3-19(b)** of this permit and shall comply with the requirements of **Conditions F3-14(b) through (d)** of this permit.
2. The permittee shall eliminate the visual, audible, olfactory, or other indication of a potential leak within 5 calendar days of detection.

(b) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

(c) Reserved

1. When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in **Condition F3-15** of this permit.
(2) The first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

(d) First attempts at repair include, but are not limited to, the best practices described under Conditions F3-8(e)(2) and F3-13(e) of this permit.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.482-8

Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5 and F3-20 of this permit. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

F3-15. 40 CFR §60.482-9 Standards: Delay of repair

(a) Delay of repair of equipment for which leaks have been detected will be allowed if repair within 15 days is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown. Monitoring to verify repair must occur within 15 days after startup of the process unit.

(b) Delay of repair of equipment will be allowed for equipment which is isolated from the process and which does not remain in VOC service.

(c) Delay of repair for valves will be allowed if:

(1) The permittee demonstrates that emissions of purged material resulting from immediate repair are greater than the fugitive emissions likely to result from delay of repair, and

(2) When repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with Condition F3-16 of this permit.

(d) Delay of repair for pumps will be allowed if:

(1) Repair requires the use of a dual mechanical seal system that includes a barrier fluid system, and

(2) Repair is completed as soon as practicable, but not later than 6 months after the leak was detected.

(e) Delay of repair beyond a process unit shutdown will be allowed for a valve, if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown.

(f) When delay of repair is allowed for a leaking pump or valve that remains in service, the pump or valve may be considered to be repaired and no longer subject to delay of repair requirements if two consecutive monthly monitoring instrument readings are below the leak definition.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.482-9

Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5 and F3-20 of this permit. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.
F3-16. 40 CFR §60.482-10 Standards: Closed vent systems and control devices

(a) Owners or operators of closed vent systems and control devices used to comply with provisions of 40 CFR Part 60 Subpart VV shall comply with the provisions of this condition.

(b) Vapor recovery systems (for example, condensers and absorbers) shall be designed and operated to recover the VOC emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts per million by volume, whichever is less stringent.

(c) Enclosed combustion devices shall be designed and operated to reduce the VOC emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts per million by volume, on a dry basis, corrected to 3 percent oxygen, whichever is less stringent or to provide a minimum residence time of 0.75 seconds at a minimum temperature of 816 °C.

(d) Flares used to comply with this 40 CFR Part 60 Subpart VV shall comply with the requirements of 40 CFR §60.18.

(e) Owners or operators of control devices used to comply with the provisions of 40 CFR Part 60 Subpart KKK shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs.

(f) Except as provided in Conditions F3-16(i) through (k) of this permit, each closed vent system shall be inspected according to the procedures and schedule specified in Conditions F3-16(f)(1) and (2) of this permit.

(1) If the vapor collection system or closed vent system is constructed of hard-piping, the permittee shall comply with the requirements specified in Conditions F3-16(f)(1)(i) and (ii) of this permit:

(i) Conduct an initial inspection according to the procedures in Condition F3-19(b) of this permit; and

(ii) Conduct annual visual inspections for visible, audible, or olfactory indications of leaks.

(2) If the vapor collection system or closed vent system is constructed of ductwork, the permittee shall:

(i) Reserved

(ii) Conduct annual inspections according to the procedures in Condition F3-19(b) of this permit.

(g) Leaks, as indicated by an instrument reading greater than 500 parts per million by volume above background or by visual inspections, shall be repaired as soon as practicable except as provided in Condition F3-16(h) of this permit.

(1) A first attempt at repair shall be made no later than 5 calendar days after the leak is detected.

(2) Repair shall be completed no later than 15 calendar days after the leak is detected.

(h) Delay of repair of a closed vent system for which leaks have been detected is allowed if the repair is technically infeasible without a process unit shutdown or if the permittee determines that emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. Repair of such equipment shall be complete by the end of the next process unit shutdown.
(i) If a vapor collection system or closed vent system is operated under a vacuum, it is exempt from the inspection requirements of Conditions F3-16(f)(1)(i) and F3-16(f)(2) of this permit.

(j) Any parts of the closed vent system that are designated, as described in Condition F3-16(l)(1) of this permit, as unsafe to inspect are exempt from the inspection requirements of Conditions F3-16(f)(1)(i) and F3-16(f)(2) of this permit if they comply with the requirements specified in Conditions F3-16(j)(1) and (2) of this permit:

1. The permittee determines that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with Conditions F3-16(f)(1)(i) or F3-16(f)(2) of this permit; and

2. The permittee has a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times.

(k) Any parts of the closed vent system that are designated, as described in Condition F3-16(l)(2) of this permit, as difficult to inspect are exempt from the inspection requirements of Conditions F3-16(f)(1)(i) and F3-16(f)(2) of this permit if they comply with the requirements specified in Conditions F3-16(k)(1) through (3) of this permit:

1. The permittee determines that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface; and

2. The process unit within which the closed vent system is located becomes an affected facility through 40 CFR §§60.14 or 60.15, or the permittee designates less than 3.0 percent of the total number of closed vent system equipment as difficult to inspect; and

3. The permittee has a written plan that requires inspection of the equipment at least once every 5 years. A closed vent system is exempt from inspection if it is operated under a vacuum.

(l) The permittee shall record the information specified in Conditions F3-16(l)(1) through (5) of this permit.

1. Identification of all parts of the closed vent system that are designated as unsafe to inspect, an explanation of why the equipment is unsafe to inspect, and the plan for inspecting the equipment.

2. Identification of all parts of the closed vent system that are designated as difficult to inspect, an explanation of why the equipment is difficult to inspect, and the plan for inspecting the equipment.

3. For each inspection during which a leak is detected, a record of the information specified in Condition F3-20(c) of this permit.

4. For each inspection conducted in accordance with Condition F3-19(b) of this permit during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.

5. For each visual inspection conducted in accordance with Condition F3-16(f)(1)(ii) of this permit during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.

(m) Closed vent systems and control devices used to comply with provisions of 40 CFR Part 60 Subpart KKK shall be operated at all times when emissions may be vented to them.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.482-10
Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5 and F3-20 of this permit. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

F3-17. 40 CFR §60.483-1 Alternative standards for valves-allowable percentage of valves

(a) The permittee may elect to comply with an allowable percentage of valves leaking of equal to or less than 2.0 percent.

(b) The following requirements shall be met if the permittee wishes to comply with an allowable percentage of valves leaking:

(1) The permittee must notify the Technical Secretary that the permittee has elected to comply with the allowable percentage of valves leaking before implementing this alternative standard, as specified in Condition F3-21(d) of this permit.

(2) A performance test as specified in Condition F3-17(c) of this permit shall be conducted initially upon designation, annually, and at other times requested by the Technical Secretary.

(3) If a valve leak is detected, it shall be repaired in accordance with Condition F3-13(d) and (e) of this permit.

(c) Performance tests shall be conducted in the following manner:

(1) All valves in gas/vapor and light liquid service within the affected facility shall be monitored within 1 week by the methods specified in Condition F3-19(b) of this permit.

(2) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

(3) The leak percentage shall be determined by dividing the number of valves for which leaks are detected by the number of valves in gas/vapor and light liquid service within the affected facility.

(d) Owners and operators who elect to comply with this alternative standard shall not have an affected facility with a leak percentage greater than 2.0 percent, determined as described in Condition F3-19(h) of this permit.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.483-1

Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5 and F3-20 of this permit. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

F3-18. 40 CFR §60.483-2 Alternative standards for valves-skip period leak detection and repair

(a) Reserved

(1) The permittee may elect to comply with one of the alternative work practices specified in Conditions F3-18(b)(2) and (3) of this permit.

(2) The permittee must notify the Technical Secretary before implementing one of the alternative work practices, as specified in Condition F3-21(d) of this permit.
(b) Reserved

(1) The permittee shall comply initially with the requirements for valves in gas/vapor service and valves in light liquid service, as described in Condition F3-13 of this permit.

(2) After 2 consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0, the permittee may begin to skip 1 of the quarterly leak detection periods for the valves in gas/vapor and light liquid service.

(3) After 5 consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0, the permittee may begin to skip 3 of the quarterly leak detection periods for the valves in gas/vapor and light liquid service.

(4) If the percent of valves leaking is greater than 2.0, the permittee shall comply with the requirements as described in Condition F3-13 of this permit but can again elect to use this condition.

(5) The percent of valves leaking shall be determined as described in Condition F3-19(h) of this permit.

(6) The permittee must keep a record of the percent of valves found leaking during each leak detection period.

(7) A valve that begins operation in gas/vapor service or light liquid service after the initial startup date for a process unit following one of the alternative standards in this condition must be monitored in accordance with Condition F3-15(a)(2)(i) or (ii) of this permit before the provisions of this condition can be applied to that valve.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.483-2

Compliance Method: Compliance with this condition may be determined from the records required by Conditions F3-2, F3-3, F3-4, F3-5 and F3-20 of this permit. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in Condition G3.

F3-19. 40 CFR §60.485 Test methods and procedures

(a) In conducting the performance tests required in 40 CFR §60.8, the permittee shall use as reference methods and procedures the test methods in appendix A of 40 CFR Part 60 or other methods and procedures as specified in this Condition F3-19 of this permit, except as provided in 40 CFR §60.8(b).

(b) The permittee shall determine compliance with the standards in Conditions F3-7 through F3-16, Conditions F3-17 through F3-18 of this permit, and 40 CFR §60.484 as follows:

(1) Method 21 shall be used to determine the presence of leaking sources. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21. The following calibration gases shall be used:

(i) Zero air (less than 10 ppm of hydrocarbon in air); and

(ii) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane.
(c) The permittee shall determine compliance with the no detectable emission standards in Conditions F3-8(e), F3-9(i), F3-10, F3-13(f), and F3-16(e) of this permit as follows:

(1) The requirements of Condition F3-19(b) of this permit shall apply.

(2) Method 21 shall be used to determine the background level. All potential leak interfaces shall be traversed as close to the interface as possible. The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 500 ppm for determining compliance.

(d) The permittee shall test each piece of equipment unless he demonstrates that a process unit is not in VOC service, i.e., that the VOC content would never be reasonably expected to exceed 10 percent by weight. For purposes of this demonstration, the following methods and procedures shall be used:

(1) Procedures that conform to the general methods in ASTM E260-73, 91, or 96, E168-67, 77, or 92, E169-63, 77, or 93 (incorporated by reference—see 40 CFR §60.17) shall be used to determine the percent VOC content in the process fluid that is contained in or contacts a piece of equipment.

(2) Organic compounds that are considered by the Technical Secretary to have negligible photochemical reactivity may be excluded from the total quantity of organic compounds in determining the VOC content of the process fluid.

(3) Engineering judgment may be used to estimate the VOC content, if a piece of equipment had not been shown previously to be in service. If the Technical Secretary disagrees with the judgment, Conditions F3-19(d)(1) and (2) of this permit shall be used to resolve the disagreement.

(e) The permittee shall demonstrate that a piece of equipment is in light liquid service by showing that all the following conditions apply:

(1) The vapor pressure of one or more of the organic components is greater than 0.3 kPa at 20 °C (1.2 in. H2O at 68 °F). Standard reference texts or ASTM D2879-83, 96, or 97 (incorporated by reference—see 40 CFR §60.17) shall be used to determine the vapor pressures.

(2) The total concentration of the pure organic components having a vapor pressure greater than 0.3 kPa at 20 °C (1.2 in. H2O at 68 °F) is equal to or greater than 20 percent by weight.

(3) The fluid is a liquid at operating conditions.

(f) Samples used in conjunction with Conditions F3-19(d), (e) and (g) of this permit shall be representative of the process fluid that is contained in or contacts the equipment or the gas being combusted in the flare.

(g) The permittee shall determine compliance with the standards of flares as follows:

(1) Method 22 shall be used to determine visible emissions.

(2) A thermocouple or any other equivalent device shall be used to monitor the presence of a pilot flame in the flare.

(3) The maximum permitted velocity for air assisted flares shall be computed using the following equation:

$$V_{max} = V_1 + V_2H_2$$
Where:

\( V_{\text{max}} \) = Maximum permitted velocity, m/sec (ft/sec)

\( H_T \) = Net heating value of the gas being combusted, MJ/scm (Btu/scf).

\( K_1 = 8.706 \text{ m/sec (metric units)} = 28.56 \text{ ft/sec (English units)} \)

\( K_2 = 0.7084 \text{ m}^4/(\text{MJ-sec) (metric units)} = 0.087 \text{ ft}^4/(\text{Btu-sec) (English units)} \)

(4) The net heating value (HT) of the gas being combusted in a flare shall be computed using the following equation:

\[ H_T = K_1 \sum_{i} C_i H_i \]

Where:

\( K = \text{Conversion constant, } 1.740 \times 10^{-7} \text{ (g-mole)(MJ)/(ppm-scm-kcal) (metric units)} = 4.674 \times 10^{-6} \text{ [(g-mole)(Btu)/(ppm-scf-kcal)] (English units)} \)

\( C_i = \text{Concentration of sample component “i”, ppm} \)

\( H_i = \text{Net heat of combustion of sample component “i” at 25 °C and 760 mm Hg (77 °F and 14.7 psi), kcal/g-mole} \)

(5) Method 18 or ASTM D6420-99 (2004) (where the target compound(s) are those listed in Section 1.1 of ASTM D642099, and the target concentration is between 150 parts per billion by volume and 100 parts per million by volume) and ASTM D2504-67, 77 or 88 (Reapproved 1993) (incorporated by reference—see 40 CFR §60.17) shall be used to determine the concentration of sample component “i.”

(6) ASTM D2382-76 or 88 or D4809-95 (incorporated by reference—see 40 CFR §60.17) shall be used to determine the net heat of combustion of component “i” if published values are not available or cannot be calculated.

(7) Method 2, 2A, 2C, or 2D, as appropriate, shall be used to determine the actual exit velocity of a flare. If needed, the unobstructed (free) cross-sectional area of the flare tip shall be used.

(h) The permittee shall determine compliance with Condition F3-17 or F3-18 of this permit as follows:

(1) The percent of valves leaking shall be determined using the following equation:

\[ \%VL = \left( \frac{VL}{VT} \right) \times 100 \]

Where:

\( \%VL = \text{Percent leaking valves} \)

\( V_L = \text{Number of valves found leaking} \)

\( V_T = \text{The sum of the total number of valves monitored} \)
(2) The total number of valves monitored shall include difficult-to-monitor and unsafe-to-monitor valves only during the monitoring period in which those valves are monitored.

(3) The number of valves leaking shall include valves for which repair has been delayed.

(4) Any new valve that is not monitored within 30 days of being placed in service shall be included in the number of valves leaking and the total number of valves monitored for the monitoring period in which the valve is placed in service.

(5) If the process unit has been subdivided in accordance with Condition F3-13(c)(1)(ii) of this permit, the sum of valves found leaking during a monitoring period includes all subgroups.

(6) The total number of valves monitored does not include a valve monitored to verify repair.

F3-20. 40 CFR §60.486 Recordkeeping requirements.

(a) Reserved

(1) Each permittee subject to the provisions of 40 CFR Part 60 Subpart VV shall comply with the recordkeeping requirements of this Condition F3-20 of this permit.

(2) The permittee of more than one affected facility subject to the provisions of 40 CFR Part 60 Subpart VV may comply with the recordkeeping requirements for these facilities in one recordkeeping system if the system identifies each record by each facility.

(b) When each leak is detected as specified in Conditions F3-8, F3-9, F3-13, F3-14 and F3-18 of this permit, the following requirements apply:

(1) A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment.

(2) The identification on a valve may be removed after it has been monitored for 2 successive months as specified in Condition F3-13(c) of this permit and no leak has been detected during those 2 months.

(3) The identification on equipment except on a valve, may be removed after it has been repaired.

(c) When each leak is detected as specified in Conditions F3-8, F3-9, F3-13, F3-14 and F3-18 of this permit, the following information shall be recorded in a log and shall be kept for 2 years in a readily accessible location:

(1) The instrument and operator identification numbers and the equipment identification number.

(2) The date the leak was detected and the dates of each attempt to repair the leak.

(3) Repair methods applied in each attempt to repair the leak.

(4) “Above 10,000” if the maximum instrument reading measured by the methods specified in Condition F3-19(a) of this permit after each repair attempt is equal to or greater than 10,000 ppm.

(5) “Repair delayed” and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.
(6) The signature of the permittee (or designee) whose decision it was that repair could not be effected without a process shutdown.

(7) The expected date of successful repair of the leak if a leak is not repaired within 15 days.

(8) Dates of process unit shutdowns that occur while the equipment is unrepaired.

(9) The date of successful repair of the leak.

(d) The following information pertaining to the design requirements for closed vent systems and control devices described in Condition F3-16 of this permit shall be recorded and kept in a readily accessible location:

(1) Detailed schematics, design specifications, and piping and instrumentation diagrams.

(2) The dates and descriptions of any changes in the design specifications.

(3) A description of the parameter or parameters monitored, as required in Condition F3-16(e) of this permit, to ensure that control devices are operated and maintained in conformance with their design and an explanation of why that parameter (or parameters) was selected for the monitoring.

(4) Periods when the closed vent systems and control devices required in Conditions F3-8, F3-9, F3-10 and F3-11 of this permit are not operated as designed, including periods when a flare pilot light does not have a flame.

(5) Dates of startups and shutdowns of the closed vent systems and control devices required in Conditions F3-8, F3-9, F3-10 and F3-11 of this permit.

(e) The following information pertaining to all equipment subject to the requirements in Conditions F3-7 to F3-16 of this permit shall be recorded in a log that is kept in a readily accessible location:

(1) A list of identification numbers for equipment subject to the requirements of 40 CFR Part 60 Subpart VV.

(2) Reserved

(i) A list of identification numbers for equipment that are designated for no detectable emissions under the provisions of Conditions F3-8(e), F3-9(i) and F3-13(f) of this permit.

(ii) The designation of equipment as subject to the requirements of Condition F4-8(e), Condition F3-9(i), or Condition F3-13(f) of this permit shall be signed by the permittee. Alternatively, the permittee may establish a mechanism with their permitting authority that satisfies this requirement.

(3) A list of equipment identification numbers for pressure relief devices required to comply with Condition F3-10 of this permit.

(4) Reserved

(i) The dates of each compliance test as required in Conditions F3-8(e), F3-9(i), F3-10 and F3-13(f) of this permit.

(ii) The background level measured during each compliance test.
(iii) The maximum instrument reading measured at the equipment during each compliance test.

(5) A list of identification numbers for equipment in vacuum service.

(6) A list of identification numbers for equipment that the permittee designates as operating in VOC service less than 300 hr/yr in accordance with Condition F3-7(e) of this permit, a description of the conditions under which the equipment is in VOC service, and rationale supporting the designation that it is in VOC service less than 300 hr/yr.

(f) The following information pertaining to all valves subject to the requirements of Conditions F3-13(g) and (h) of this permit and to all pumps subject to the requirements of Condition F3-8(g) of this permit shall be recorded in a log that is kept in a readily accessible location:

(1) A list of identification numbers for valves and pumps that are designated as unsafe-to-monitor, an explanation for each valve or pump stating why the valve or pump is unsafe-to-monitor, and the plan for monitoring each valve or pump.

(2) A list of identification numbers for valves that are designated as difficult-to-monitor, an explanation for each valve stating why the valve is difficult-to-monitor, and the schedule for monitoring each valve.

(g) The following information shall be recorded for valves complying with Condition F3-18 of this permit:

(1) A schedule of monitoring.

(2) The percent of valves found leaking during each monitoring period.

(h) The following information shall be recorded in a log that is kept in a readily accessible location:

(1) Design criterion required in Conditions F3-8(d)(5) and F3-9(e)(2) of this permit and explanation of the design criterion; and

(2) Any changes to this criterion and the reasons for the changes.

(i) The following information shall be recorded in a log that is kept in a readily accessible location for use in determining exemptions as provided in 40 CFR §60.480(d):

(1) An analysis demonstrating the design capacity of the affected facility,

(2) A statement listing the feed or raw materials and products from the affected facilities and an analysis demonstrating whether these chemicals are heavy liquids or beverage alcohol, and

(3) An analysis demonstrating that equipment is not in VOC service.

(j) Information and data used to demonstrate that a piece of equipment is not in VOC service shall be recorded in a log that is kept in a readily accessible location.

(k) The provisions of 40 CFR §60.7 (b) and (d) do not apply to affected facilities subject to 40 CFR Part 60 Subpart VV.

F3-21. 40 CFR §60.487 Reporting requirements.
(a) Each permittee subject to the provisions of 40 CFR Part 60 Subpart VV shall submit semiannual reports to the Technical Secretary beginning six months after the initial startup date.

(b) The initial semiannual report to the Technical Secretary shall include the following information:

1. Process unit identification.

2. Number of valves subject to the requirements of Condition F3-13 of this permit, excluding those valves designated for no detectable emissions under the provisions of Condition F3-13(f) of this permit.

3. Number of pumps subject to the requirements of Condition F3-8 of this permit, excluding those pumps designated for no detectable emissions under the provisions of Condition F3-8(e) of this permit and those pumps complying with Condition F3-8(f) of this permit.

4. Number of compressors subject to the requirements of Condition F3-9, excluding those compressors designated for no detectable emissions under the provisions of Condition F3-9(i) of this permit and those compressors complying with Condition F3-9(h) of this permit.

(c) All semiannual reports to the Technical Secretary shall include the following information, summarized from the information in Condition F3-20 of this permit:

1. Process unit identification.

2. For each month during the semiannual reporting period,

   i. Number of valves for which leaks were detected as described in Condition F3-13(b) or Condition F3-18 of this permit,

   ii. Number of valves for which leaks were not repaired as required in Condition F3-13(d)(1) of this permit,

   iii. Number of pumps for which leaks were detected as described in Condition F3-8(b), F3-8(d)(4)(ii)(A) or (B), or F3-8(d)(5)(iii) of this permit,

   iv. Number of pumps for which leaks were not repaired as required in Condition F3-8(c)(1) and F3-8(d)(6) of this permit,

   v. Number of compressors for which leaks were detected as described in Condition F3-9(f) of this permit,

   vi. Number of compressors for which leaks were not repaired as required in Condition F3-9(g)(1) of this permit, and

   vii. The facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible.

3. Dates of process unit shutdowns which occurred within the semiannual reporting period.

4. Revisions to items reported according to Condition F3-21(b) of this permit if changes have occurred since the initial report or subsequent revisions to the initial report.
(d) The permittee electing to comply with the provisions of **Condition F3-17 or Condition F3-18** of this permit shall notify the Technical Secretary of the alternative standard selected 90 days before implementing either of the provisions.

(e) The permittee shall report the results of all performance tests in accordance with 40 CFR §60.8 of the General Provisions. The provisions of 40 CFR §60.8(d) do not apply to affected facilities subject to the provisions of 40 CFR Part 60 Subpart VV except that the permittee must notify the Technical Secretary of the schedule for the initial performance tests at least 30 days before the initial performance tests.

(f) The requirements of **Conditions F3-21(a) through (c)** of this permit remain in force until and unless EPA, in delegating enforcement authority to a State under section 111(c) of the Federal Clean Air Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such State. In that event, affected sources within the State will be relieved of the obligation to comply with the requirements of **Conditions F3-21(a) through (c)** of this permit, provided that they comply with the requirements established by the State.

**Compliance Method:** Compliance with this condition may be determined from the records required by **Conditions F3-2, F3-3, F3-4, F3-5 and F3-20** of this permit. The reports for the semi-annual periods of January through June and July through December are due within 60 days after the reporting period. The reports shall be sent to the Field Services Program at the address noted in **Condition G3**.

**Optical Gas Imaging**

Condition F4-22 specifies how the permittee may use an optical gas imaging instrument for alternative monitoring for fugitive emissions instead of a 40 CFR Part 60, appendix A-7, Method 21 monitor to comply with 40 CFR Part 60, Subpart KKK requirements. Approval for the use of this procedure was requested by the permittee (see application in Appendix 8 of this permit) pursuant to 40 CFR 60.18(g), (h) and (i) and was approved by the Division effective April 24, 2019, through Amendment #1 to permit 073577.

**F3-22. 40 CFR §60.18 General control device and work practice requirements.**

(a) through (f) Reserved

(g) **Alternative work practice for monitoring equipment for leaks.** **Conditions F4-22(g), (h) and (i)** of this permit apply to all equipment for which the applicable subpart requires monitoring with a 40 CFR Part 60, appendix A-7, Method 21 monitor, except for closed vent systems, equipment designated as leakless, and equipment identified in the applicable subpart, as defined in **Condition F4-22(g)(1)** of this permit, as having no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background. The permittee may use an optical gas imaging instrument instead of a 40 CFR Part 60, appendix A-7, Method 21 monitor. Requirements in the existing subparts that are specific to the Method 21 instrument do not apply under this permit condition. All other requirements in the applicable subpart that are not addressed **Conditions F4-22(g), (h) and (i)** of this permit apply to this standard. For example, equipment specification requirements, and non-Method 21 instrument recordkeeping and reporting requirements in the applicable subpart continue to apply. The terms defined in **Conditions F4-22(g)(1) through (5)** of this permit have meanings that are specific to the alternative work practice standard in **Conditions F4-22(g), (h) and (i)** of this permit.

(1) **Applicable subpart** means the subpart in 40 CFR parts 60, 61, 63, or 65 that requires monitoring of equipment with a 40 CFR Part 60, appendix A-7, Method 21 monitor.
(2) **Equipment** means pumps, valves, pressure relief valves, compressors, open-ended lines, flanges, connectors, and other equipment covered by the applicable subpart that require monitoring with a 40 CFR Part 60, appendix A-7, Method 21 monitor.

(3) **Imaging** means making visible emissions that may otherwise be invisible to the naked eye.

(4) **Optical gas imaging instrument** means an instrument that makes visible emissions that may otherwise be invisible to the naked eye.

(5) **Repair** means that equipment is adjusted, or otherwise altered, in order to eliminate a leak.

(6) **Leak** means:

   (i) Any emissions imaged by the optical gas instrument;

   (ii) Indications of liquids dripping;

   (iii) Indications by a sensor that a seal or barrier fluid system has failed; or

   (iv) Screening results using a 40 CFR Part 60, appendix A-7, Method 21 monitor that exceed the leak definition in the applicable subpart to which the equipment is subject.

(h) The alternative work practice standard for monitoring equipment for leaks is available to all subparts in 40 CFR parts 60, 61, 63, and 65 that require monitoring of equipment with a 40 CFR Part 60, appendix A-7, Method 21 monitor.

(1) The permittee can choose to comply with the alternative work practice requirements in Condition F4-22(i) of this permit instead of using the 40 CFR Part 60, appendix A-7, Method 21 monitor to identify leaking equipment. The permittee must document the equipment, process units, and facilities for which the alternative work practice will be used to identify leaks as specified in Condition F4-22(i)(4)(i) of this permit.

(2) Any leak detected when following the leak survey procedure in Condition F4-22(i)(3) of this permit must be identified for repair as required in the applicable subpart.

(3) If the alternative work practice is used to identify leaks, re-screening after an attempted repair of leaking equipment must be conducted using either the alternative work practice or the 40 CFR Part 60, appendix A-7, Method 21 monitor at the leak definition required in the applicable subpart to which the equipment is subject.

(4) The schedule for repair is as required in the applicable subpart.

(5) When this alternative work practice is used for detecting leaking equipment, the permittee shall use the Bi-Monthly monitoring frequency listed in Table 1 to 40 CFR Part 60 Subpart A in lieu of the monitoring frequency specified for regulated equipment in the applicable subpart, as specified in Section 3.2 of the permittee’s Request for Alternative Work Practice, dated January 2019 (Appendix 8). Reduced monitoring frequencies for good performance are not applicable when using the alternative work practice.

(6) When this alternative work practice is used for detecting leaking equipment the following are not applicable for the equipment being monitored:

   (i) Skip period leak detection and repair;
(ii) Quality improvement plans; or

(iii) Complying with standards for allowable percentage of valves and pumps to leak.

(7) When the alternative work practice is used to detect leaking equipment, the regulated equipment in Condition F4-22(h)(1) of this permit must also be monitored annually using a 40 CFR Part 60, appendix A-7, Method 21 monitor at the leak definition required in the applicable subpart. The permittee has chosen the January Bi-Monthly monitoring period to conduct the annual monitoring as specified in Table 3.3 of the permittee’s Request for Alternative Work Practice, dated January 2019 (Appendix 8). Subsequent monitoring must be conducted every 12 months from the initial period. The permittee must keep records of the annual Method 21 screening results, as specified in Condition F4-22(i)(4)(vii) of this permit.

(i) The permittee, when choosing to use the alternative work practice must comply with the requirements of Conditions F4-22(i)(1) through (5) of this permit.

(1) Instrument Specifications. The optical gas imaging instrument must comply with the requirements in Conditions F4-22(i)(1)(i) and (ii) of this permit.

(i) Provide the operator with an image of the potential leak points for each piece of equipment at both the detection sensitivity level and within the distance used in the daily instrument check described in Condition F4-22(i)(2) of this permit. The detection sensitivity level depends upon the frequency at which leak monitoring is to be performed.

(ii) Provide a date and time stamp for video records of every monitoring event.

(2) Daily Instrument Check. On a daily basis, and prior to beginning any leak monitoring work, test the optical gas imaging instrument at the mass flow rate determined in Condition F4-22(i)(2)(i) of this permit in accordance with the procedure specified in Conditions F4-22(i)(2)(ii) through (iv) of this permit for each camera configuration used during monitoring (for example, different lenses used), unless an alternative method to demonstrate daily instrument checks has been approved in accordance with Condition F4-22(i)(2)(v) of this permit.

(i) Calculate the mass flow rate to be used in the daily instrument check by following the procedures in Conditions F4-22(i)(2)(i)(A) and (B) of this permit.

(A) For a specified population of equipment to be imaged by the instrument, determine the piece of equipment in contact with the lowest mass fraction of chemicals that are detectable, within the distance to be used in Condition F4-22(i)(2)(iv)(B) of this permit, at or below the standard detection sensitivity level.

(B) Multiply the standard detection sensitivity level, corresponding to the selected Bi-Monthly (as specified in Section 3.2 of the permittee’s Request for Alternative Work Practice, dated January 2019 (Appendix 8)) monitoring frequency from Table 1 of 40 CFR Part 60 Subpart A, by the mass fraction of detectable chemicals from the stream identified in Condition F4-22(i)(2)(i)(A) of this permit to determine the mass flow rate to be used in the daily instrument check, using the following equation.

\[ E_{dic} = \left( E_{sds} \right) \sum_{i=1}^{k} x_i \]
Where:

\[ E_{d,i} = \text{Mass flow rate for the daily instrument check, grams per hour} \]

\[ x_i = \text{Mass fraction of detectable chemical(s) } i \text{ seen by the optical gas imaging instrument, within the distance to be used in Condition F4-22(i)(2)(iv)(B) of this permit, at or below the standard detection sensitivity level, } E_{sd} \]

\[ E_{sd} = \text{Standard detection sensitivity level from Table 1 to 40 CFR Part 60 Subpart A, grams per hour} \]

\[ k = \text{Total number of detectable chemicals emitted from the leaking equipment and seen by the optical gas imaging instrument.} \]

(ii) Start the optical gas imaging instrument according to the manufacturer's instructions, ensuring that all appropriate settings conform to the manufacturer's instructions.

(iii) Use any gas chosen by the user that can be viewed by the optical gas imaging instrument and that has a purity of no less than 98 percent.

(iv) Establish a mass flow rate by using the following procedures:

(A) Provide a source of gas where it will be in the field of view of the optical gas imaging instrument.

(B) Set up the optical gas imaging instrument at a recorded distance from the outlet or leak orifice of the flow meter that will not be exceeded in the actual performance of the leak survey. Do not exceed the operating parameters of the flow meter.

(C) Open the valve on the flow meter to set a flow rate that will create a mass emission rate equal to the mass rate specified in Condition F4-22(i)(2)(i) of this permit while observing the gas flow through the optical gas imaging instrument viewfinder. When an image of the gas emission is seen through the viewfinder at the required emission rate, make a record of the reading on the flow meter.

(v) Repeat the procedures specified in Conditions F4-22(i)(2)(ii) through (iv) of this permit for each configuration of the optical gas imaging instrument used during the leak survey.

(vi) To use an alternative method to demonstrate daily instrument checks, apply to the EPA Administrator for approval of the alternative under 40 CFR §60.13(i).

(3) Leak Survey Procedure. Operate the optical gas imaging instrument to image every regulated piece of equipment selected for this work practice in accordance with the instrument manufacturer’s operating parameters. All emissions imaged by the optical gas imaging instrument are considered to be leaks and are subject to repair. All emissions visible to the naked eye are also considered to be leaks and are subject to repair.

(4) Recordkeeping. The permittee must keep the records described in Conditions F4-22(i)(4)(i) through (vii) of this permit:

(i) The equipment, processes, and facilities for which the permittee chooses to use the alternative work practice.
(ii) The detection sensitivity level selected from Table 1 to 40 CFR Part 60 Subpart A for the optical gas imaging instrument.

(iii) The analysis to determine the piece of equipment in contact with the lowest mass fraction of chemicals that are detectable, as specified in Condition F4-22(i)(2)(i)(A) of this permit.

(iv) The technical basis for the mass fraction of detectable chemicals used in the equation in Condition F4-22(i)(2)(i)(B) of this permit.

(v) The daily instrument check. Record the distance, per Condition F4-22(i)(2)(iv)(B) of this permit, and the flow meter reading, per Condition F4-22(i)(2)(iv)(C) of this permit, at which the leak was imaged. Keep a video record of the daily instrument check for each configuration of the optical gas imaging instrument used during the leak survey (for example, the daily instrument check must be conducted for each lens used). The video record must include a time and date stamp for each daily instrument check. The video record must be kept for 5 years.

(vi) Recordkeeping requirements in the applicable subpart. A video record must be used to document the leak survey results. The video record must include a time and date stamp for each monitoring event. A video record can be used to meet the recordkeeping requirements of the applicable subparts if each piece of regulated equipment selected for this work practice can be identified in the video record. The video record must be kept for 5 years.

(vii) The results of the annual Method 21 screening required in Condition F4-22(h)(7) of this permit. Records must be kept for all regulated equipment specified in Condition F4-22(h)(1) of this permit. Records must identify the equipment screened, the screening value measured by Method 21, the time and date of the screening, and calibration information required in the existing applicable subpart.

(5) Reporting. Submit the reports required in the applicable subpart. Submit the records of the annual Method 21 screening required in Condition F4-22(h)(7) of this permit to the Field Services Program at the address noted in Condition G3.

TAPCR 1200-03-09-.03(8) and 40 CFR §60.18

Compliance Method: Compliance may be demonstrated by the recordkeeping and reporting required by Conditions F4-22(i)(4) and (5) of this permit.

(End of conditions)

The permit application gives the location of this source as 36.334562° Latitude and -83.044571° Longitude.
## Appendix 1: Notification of Change in Responsible Person

<table>
<thead>
<tr>
<th>Facility (Permittee)</th>
<th>Eco-Energy Stone Mountain, LLC dba Stone Mountain Processing Inlet Feed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility ID</td>
<td>37-0088</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Former Responsible Person</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Title</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New Responsible Person</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Title</td>
<td></td>
</tr>
<tr>
<td>Email</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Date New Responsible Person was assigned this duty:** ______________

As the Responsible Person of the above mentioned facility (permittee), I certify that the information contained in this Notification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

<table>
<thead>
<tr>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signer’s name (print)</th>
<th>Title</th>
<th>Phone (with area code)</th>
</tr>
</thead>
</table>
Appendix 2: Notification of Changes

Facility (Permittee)  
Eco-Energy Stone Mountain, LLC  
dba Stone Mountain Processing Inlet Feed

Facility ID  
37-0088

Source No.

<table>
<thead>
<tr>
<th>Control Equipment</th>
<th>Stack Height (Feet)</th>
<th>Stack Diameter (Feet)</th>
<th>Exit Velocity (Feet/Second)</th>
<th>Exit Temperature (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proposed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proposed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proposed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Comments:

As the Responsible Person of the above mentioned facility (permittee), I certify that the information contained in this Notification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature  
Date

Signer’s name (print)  
Title  
Phone (with area code)
### Appendix 3: Notification of Ownership Change

<table>
<thead>
<tr>
<th>Facility (Permittee)</th>
<th>Eco-Energy Stone Mountain, LLC dba Stone Mountain Processing Inlet Feed (Previous Owner)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility ID</td>
<td>37-0088</td>
</tr>
<tr>
<td>Facility (Permittee)</td>
<td>(New Owner)</td>
</tr>
<tr>
<td>Email Address</td>
<td></td>
</tr>
<tr>
<td>Secretary of State Control Number</td>
<td>[as registered with the TN Secretary of State]</td>
</tr>
<tr>
<td>Date of Ownership Change</td>
<td></td>
</tr>
</tbody>
</table>

**Comments:**

As the responsible person for the new owner or operator of the above mentioned facility (permittee):

- I agree to not make any changes to the stationary source(s) that meet the definition of modification as defined in Division 1200-03 or Division 0400-30\(^1\), and

- I agree to comply with the conditions contained in the permits listed below, Division 1200-03 and Division 0400-30 of the Tennessee Air Pollution Control Regulations, the Tennessee Air Quality Act, and any documented agreements made by the previous owner to the Technical Secretary.

List all active permits issued to the facility for which the owner wishes to assume ownership:

As the Responsible Person of the above mentioned facility (permittee), I certify that the information contained in this Notification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

<table>
<thead>
<tr>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signer’s name (print)</td>
<td>Title</td>
</tr>
</tbody>
</table>

\(^1\) Appropriate application forms must be submitted prior to modification of the stationary source(s).
Appendix 4: Startup Certification

Facility (Permittee): Eco-Energy Stone Mountain, LLC
dba Stone Mountain Processing Inlet Feed

Facility ID 37-0088

Startup Certification for Source No. 

The permittee shall certify the startup date for each new or modified air contaminant source regulated by construction permit 980045 by submitting this document.

Date of startup: ________________ / __________ / __________

Month Day Year

As the Responsible Person of the above mentioned facility (permittee), I certify that the information contained in this Startup Certification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature

Date

Signer’s name (print) Title

Phone (with area code)
Appendix 5: Fees

All minor and conditional major source annual emission fees are due and payable to the Division in full according to SCHEDULE I below unless otherwise specified in TAPCR 1200-03-26-.02(6)(c). The county that a source is located in determines when the minor source annual emission fee is due. Fees are due the first day of the month listed. If a source is located on contiguous property in more than one county, the county appearing earliest in the calendar year shall be used to determine the due date of the annual emission fee.

SCHEDULE I
Month the Annual Emissions Fee is Due (Accounting Period)
Counties in the Monthly Grouping

<table>
<thead>
<tr>
<th>Month</th>
<th>Counties</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>Anderson, Bedford, Benton, Bledsoe, Blount, Bradley and Campbell</td>
</tr>
<tr>
<td>February</td>
<td>Cannon, Carroll, Carter, Cheatham, Chester, Claiborne, Clay and Cocke</td>
</tr>
<tr>
<td>March</td>
<td>Coffee, Crockett, Cumberland, Davidson, Decatur, DeKalb, Dickson, Dyer and Fayette</td>
</tr>
<tr>
<td>April</td>
<td>Fentress, Franklin, Gibson, Giles, Grainger, Greene and Grundy</td>
</tr>
<tr>
<td>May</td>
<td>Hamblen, Hamilton, Hancock, Hardeman, Hardin, Hawkins, Haywood and Henderson</td>
</tr>
<tr>
<td>June</td>
<td>Henry, Hickman, Houston, Humphreys, Jackson, Jefferson, Johnson, Knox, Lake, Lauderdale, Lawrence and Lewis</td>
</tr>
<tr>
<td>July</td>
<td>Lincoln, Loudon, McMinn, McNairy, Macon and Madison</td>
</tr>
<tr>
<td>August</td>
<td>Marion, Marshall, Maury, Meigs, Monroe, Montgomery, Moore and Morgan</td>
</tr>
<tr>
<td>September</td>
<td>Obion, Overton, Perry, Pickett, Polk, Putnam and Rhea</td>
</tr>
<tr>
<td>October</td>
<td>Roane, Robertson, Rutherford, Scott, Sequatchie, Sevier, and Shelby</td>
</tr>
<tr>
<td>November</td>
<td>Smith, Stewart, Sullivan, Sumner, Tipton, Trousdale, Unicoi and Union</td>
</tr>
</tbody>
</table>

2 Note that some sources with allowable emissions below specific thresholds are not subject to the requirement to pay annual emission fees. Contact the Emission Inventory Program at apc.inventory@tn.gov if the permittee has any questions.
### Appendix 6: Emission Statement for VOC and NO\textsubscript{X}

*Not Applicable*
Appendix 7: Agreement Letters

March 7, 2022

The Technical Secretary
Tennessee Air Pollution Control Board
William E. Snodgrass Tennessee Tower, 15th Floor
312 Rosa L. Parks Avenue
Nashville, TN 37243

Re: 37-0088-980045

Dear Technical Secretary:

Eco-Energy Stone Mountain, LLC dba Stone Mountain Processing (Eco-Energy) wishes to reduce annual emission fees pursuant to Rule 1200-03-26-02(0)(b) of the TAPCR. Eco-Energy is currently applying for a renewal permit for its Natural Gas Processing Plant and Compressor Station in Rogersville, TN.

Eco-Energy agrees to be bound by a permit that limits our operations in the following manner and any associated monitoring, reporting and record-keeping permit conditions required to prove compliance with these requested limits.

A. For fee agreement purposes regarding particulate matter (PM) emissions:
   Eco-Energy agrees to limit particulate matter (PM) emissions to the following amounts:
   1. 0.3 pounds per hour per engine for each of the two Cameron Ajax DPC-720-LE, 720 HP, 5.62 MMBtu/hr Spark Ignition 2-Stroke Lean Burn, Natural Gas-Fired Internal Combustion Engine
   2. 0.1 pounds per hour for the Caterpillar G3516LE, 1340 HP, 11.37 MMBtu/hr Spark Ignition 4-Stroke Lean Burn, Natural Gas-Fired Internal Combustion Engine
   3. 0.1 pounds per hour for the Caterpillar G3516LE, 1285 HP, 10.74 MMBtu/hr Spark Ignition 4-Stroke Lean Burn, Natural Gas-Fired Internal Combustion Engine

B. For fee agreement purposes regarding sulfur dioxide (SO2) emissions:
   Eco-Energy agrees to limit sulfur dioxide (SO2) emissions to the following amounts (if required - Sulfur dioxide (SO2) emissions from these engines are essentially negligible, based on AP-42, Chapter 3, Section 2, Table 3.2-2. Emission Factors for Natural Gas-fired Reciprocating Engines, supplement to 5th Ed. dated August 2000):
   1. 0.003 pounds per hour per engine for each of the Cameron Ajax DPC-720-LE, 720 HP, 5.62 MMBtu/hr Spark Ignition 2-Stroke Lean Burn, Natural Gas-Fired Internal Combustion Engine
   2. 0.007 pounds per hour for the Caterpillar G3516LE, 1340 HP, 11.37 MMBtu/hr Spark Ignition 4-Stroke Lean Burn, Natural Gas-Fired Internal Combustion Engine
   3. 0.006 pounds per hour for the Caterpillar G3516LE, 1285 HP, 10.74 MMBtu/hr Spark Ignition 4-Stroke Lean Burn, Natural Gas-Fired Internal Combustion Engine

Should Eco-Energy need to increase any of the limits above, Eco-Energy will apply for and receive a construction permit in accordance with TAPCR 1200-03-09-.01 prior to making the change.

Thank you for your attention to this matter. If I may be of further assistance to you regarding this facility, please contact me by phone at (615) 721-7002 or email at morgan@eco-energy.com.

Sincerely,

Morgan Greenwood
ESG Manager
Eco-Energy
Appendix 8:  Request for Alternative Work Practice  
Eco-Energy Stone Mountain, LLC  
(formerly Continuum Midstream, LLC)  
Rogersville, TN  

January 2019
January 8, 2019

Technical Secretary
Tennessee Department of Environment and Conservation
Air Pollution Control
312 Rosa L. Parks Avenue, 2nd Floor
Nashville, TN 37243

Thank you for your response letter dated December 7, 2018, regarding the “Request for Alternative Work Practice dated September 2018. Per your recommendations, we have elected to proceed with the Alternative Work Practice provisions of 40 CFR 60.18 (g), (h), and (i).

Please see the attached alternative work practice request, and, if acceptable, incorporate these provisions into our existing facility permit. Please contact Jimmy Miller at jimmy.miller@continuumes.com or (405) 919-8317 with any questions or comments regarding this request.

Thank you for your consideration,

Terry Moreland
Senior Vice President - Midstream
1323 E 71st St., Suite 300
Tulsa, OK 74136
918-625-9858
tmoreland@continuumes.com
Request for Alternative Work Practice

Continuum Midstream, LLC
Rogersville, TN

January 2019

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WWW.ENVIROMENTAL360.COM
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TABLE 3.3 PROPOSED ALTERNATIVE WORK PRACTICE MONITORING SCHEDULE
Request for Alternative Work Practice  
Continuum Midstream, LLC – Rogersville, TN

<table>
<thead>
<tr>
<th>Date of Revision</th>
<th>Reason for Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 2018</td>
<td>Initial Request</td>
</tr>
<tr>
<td>January 2019</td>
<td>Revised Alternative Work Practice Request Per TDEC Response Letter</td>
</tr>
</tbody>
</table>
Request for Alternative Work Practice
Continuum Midstream, LLC – Rogersville, TN

1.0 INTRODUCTION

Continuum Midstream, LLC (Continuum) operates a natural gas processing facility located at 681 Highway 113, Rogersville, TN. The purpose of this alternative monitoring request is to modernize the fugitive emissions monitoring requirements for the site by implementing an Optical Gas Imaging (OGI) program in lieu of Method 21 monitoring. This request has been revised from the original request submitted November 9, 2018, to incorporate the provisions of 40 CFR 60.18 for alternative monitoring for fugitive emissions.

January 2019
2.0 BACKGROUND INFORMATION

The Continuum facility is regulated under the Tennessee Department of Environment and Conservation (TDEC) Air Permit 073577. The site is a True Minor source of emissions and is subject to the New Source Performance Standards (NSPS) 40 CFR 60 Subpart KKK.

2.1 Process Description

The processes consist of natural gas feed compressors, dehydration systems, cryogenic systems, regeneration heaters, and pressurized storage vessels. The cryogenic process uses the following equipment:

- Natural Gas Compressor
- Regeneration Heater
- Dehydration Unit
- Glycol Regeneration Heater

Each of the compressors are reciprocating compressors in wet gas service as defined by 40 CFR 60 Subpart KKK.

There are a series of dehydration systems including separators, coalescers, and dehydrators prior to the demethanizing equipment and the cryogenic process. Additionally, the process includes two pressurized product surge tanks. A refrigeration chiller system is used in the chilling process; this process is not subject to the KKK requirements.

2.2 Current Regulatory Requirements

The natural gas processing facility was constructed prior to August 23, 2011, and after January 20, 1984, and is therefore subject to the requirements of 40 CFR 60 Subpart KKK “New Source Performance Standards for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants.”

§60.630 Applicability and designation of affected facility.

(a)(1) The provisions of this subpart apply to affected facilities in onshore natural gas processing plants.

(2) A compressor in VOC service or in wet gas service is an affected facility.

(3) The group of all equipment except compressors (defined in §60.631) within a process unit is an affected facility.

(b) Any affected facility under paragraph (a) of this section that commences construction, reconstruction, or modification after January 20, 1984, and on or before August 23, 2011, is subject to the requirements of this subpart.

The fugitive emissions requirements of Subpart KKK refer to 40 CFR 60 Subpart VV.
Request for Alternative Work Practice  
Continuum Midstream, LLC – Rogersville, TN

(a) Each owner or operator subject to the provisions of this subpart shall comply with the requirements of §§60.482-1 (a), (b), and (d) and 60.482-2 through 60.482-10, except as provided in §60.633, as soon as practicable, but no later than 180 days after initial startup.

40 CFR 60.482-1 addresses compliance deadlines and monitoring schedules. The table below summarizes the fugitive emissions monitoring requirements for equipment at natural gas processing facilities. The summary table below is not comprehensive of all of the standards for the equipment.

Table 2.2 Current Fugitive Emissions Monitoring Requirements Summary

<table>
<thead>
<tr>
<th>Equipment Type Standard</th>
<th>Monitoring Frequency/ Monitoring Method</th>
<th>Leak Definition</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pumps in Light Liquid Service</td>
<td>Monthly/Method 21</td>
<td>10,000 PPM</td>
<td>60-482-2(a)(1)</td>
</tr>
<tr>
<td>Pumps in Light Liquid Service</td>
<td>Weekly/Visual</td>
<td>Dripping from seal</td>
<td>60-482-2(a)(2)</td>
</tr>
<tr>
<td>Compressors</td>
<td>Exempt from requirements of 60.482-3</td>
<td>40 CFR 60.633(f)</td>
<td></td>
</tr>
<tr>
<td>Pressure Relief Devices in gas/vapor service</td>
<td>Quarterly/Method 21 Follow-Up After Release required during next monitoring event not more than 30 days</td>
<td>500 PPM</td>
<td>60-482-4(c)</td>
</tr>
<tr>
<td>Sampling Connection Systems</td>
<td>Exempt from requirements of 60.482-5</td>
<td>40 CFR 60.633(c)</td>
<td></td>
</tr>
<tr>
<td>Open-ended valves or lines</td>
<td>No fugitive emissions requirements.</td>
<td>40 CFR 60.482-6</td>
<td></td>
</tr>
<tr>
<td>Valves in Light Liquid Service or Gas/Vapor Service – Leak Rate Less than 2%</td>
<td>Quarterly/Method 21</td>
<td>10,000 PPM</td>
<td>40 CFR 60–82-7(a)(2)</td>
</tr>
<tr>
<td>Valves in Light Liquid Service or Gas/Vapor Service – Initial Monitoring or After Leaks During the Previous Period</td>
<td>Monthly/Method 21</td>
<td>10,000 PPM</td>
<td>60-482-7(a)(2)</td>
</tr>
<tr>
<td>Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors</td>
<td>Continuous/Visual, audible, olfactory, or any other detection method. If found, follow up monitoring required within 5 days.</td>
<td>Initial: Evidence of leak by visual, audible, olfactory, or any other detection method. Follow-Up: 10,000 PPM</td>
<td>60-482-7(a)–(b)</td>
</tr>
<tr>
<td>Closed Vent Systems and Control Devices</td>
<td>Continuum does not operate a closed vent system or control device.</td>
<td></td>
<td>40 CFR 60.482-10</td>
</tr>
</tbody>
</table>

1 Any pressure relief device that is located in a nonfractionating plant that is monitored only by nonplant personnel may be monitored after a pressure release the next time the monitoring personnel are on-site, instead of within 5 days as specified in paragraph (b)(1) of this section and §60.482-4(b)(1) of subpart VV.

2 Note: Only Connectors apply to the Continuum facility.
3.0 ALTERNATIVE WORK PRACTICE REQUEST PROVISIONS

3.1 Summary of Fugitive Emissions Program Changes

The table below summarizes the alternative work practice requirements compared to the current fugitive emissions monitoring requirements. The alternative work practice requirements are based on the provisions of 40 CFR 60.18 (g), (h), and (j); any provisions of Subpart KKK that are not addressed in 40 CFR 60.18 will remain in place.

Table 3.1 Proposed Alternative Work Practice Monitoring Summary

<table>
<thead>
<tr>
<th>Regulatory Requirement</th>
<th>KKK</th>
<th>Alternative Work Practice</th>
<th>Alternative Work Practice Regulatory Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitoring Method</td>
<td>Method 21</td>
<td>OGI (Bi-Monthly) and Method 21 (Annually)</td>
<td>40 CFR 60.18(h)(5)</td>
</tr>
<tr>
<td>Compressor Monitoring Frequency</td>
<td>Quarterly</td>
<td>Bi-Monthly (OGI) Annual (Method 21)</td>
<td>40 CFR 60.18(h)(5)</td>
</tr>
<tr>
<td>Pump Monitoring Frequency</td>
<td>Monthly</td>
<td>Bi-Monthly (OGI) Annual (Method 21)</td>
<td>40 CFR 60.18(h)(5)</td>
</tr>
<tr>
<td>Valve Monitoring Frequency</td>
<td>Quarterly</td>
<td>Bi-Monthly (OGI) Annual (Method 21)</td>
<td>40 CFR 60.18(h)(5)</td>
</tr>
<tr>
<td>Connector Monitoring Frequency</td>
<td>Not Required</td>
<td>Same as Subpart KKK</td>
<td>40 CFR 60.18(g)</td>
</tr>
<tr>
<td>Pressure Relief Device Monitoring</td>
<td>Quarterly</td>
<td>Bi-Monthly (OGI) Annual (Method 21)</td>
<td>40 CFR 60.18(h)(5)</td>
</tr>
<tr>
<td>Leak Definition¹</td>
<td>10,000 PPM</td>
<td>OGI = Visual Leak Method 21 = 10,000 PPM</td>
<td>40 CFR 60.18(g)</td>
</tr>
<tr>
<td>Repair Response Time</td>
<td>5/15 Days</td>
<td>Same as Subpart KKK</td>
<td>40 CFR 60.18(h)(2)</td>
</tr>
<tr>
<td>Repair Verification Monitoring</td>
<td>Method 21</td>
<td>OGI or Method 21</td>
<td>40 CFR 60.18(h)(3)</td>
</tr>
<tr>
<td>Delay of Repair Standard</td>
<td>Repair completed prior to the end of the next shutdown. Pumps must be repaired within 6 months.⁴</td>
<td>Same as Subpart KKK</td>
<td>40 CFR 60.5397a(h)(2)</td>
</tr>
<tr>
<td>Unsafe to Monitor/ Difficult to Monitor Components</td>
<td>List of components as required in 40 CFR 60.486</td>
<td>List components, monitoring plan, and monitoring schedule addressed in Fugitive Emissions Monitoring Plan.</td>
<td>40 CFR 60.5397a(c)(4)</td>
</tr>
<tr>
<td>Quality Control Program</td>
<td>Method 21</td>
<td>Bi-Monthly – Daily Instrument Check Annual – Method 21</td>
<td>40 CFR 60.18(i)(2)</td>
</tr>
</tbody>
</table>

³ Leak Definition for Pressure Relief Devices is 500 PPM per 40 CFR 60.482-4
⁴ 40 CFR 60.482-9 has several requirements that must be met for Delay of Repair to be applicable.

January 2019
Request for Alternative Work Practice
Continuum Midstream, LLC – Rogersville, TN

<table>
<thead>
<tr>
<th>Regulatory Requirement</th>
<th>KKK</th>
<th>Alternative Work Practice</th>
<th>Alternative Work Practice Regulatory Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leak Tagging</td>
<td>A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment.</td>
<td>Same as Subpart KKK</td>
<td>40 CFR 60.18(g)</td>
</tr>
<tr>
<td>Equipment Identification</td>
<td>Identification Numbers for Equipment</td>
<td>Same as Subpart KKK</td>
<td>40 CFR 60.18(g)</td>
</tr>
<tr>
<td>Reporting</td>
<td>Semi-Annual Reporting Per 40 CFR 60.636</td>
<td>Semi-Annual Reporting Per 40 CFR 60.5420</td>
<td>40 CFR 60.18(i)</td>
</tr>
</tbody>
</table>

3.2 Alternative Work Practice Implementation Schedule

The OGI monitoring frequency is determined using Table 1 of Subpart A from 40 CFR 60.

Table 3.2 Table 1 to Subpart A of 40 CFR 60

<table>
<thead>
<tr>
<th>Monitoring frequency per subpart</th>
<th>Detection sensitivity level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi-Monthly</td>
<td>60</td>
</tr>
<tr>
<td>Semi-Quarterly</td>
<td>85</td>
</tr>
<tr>
<td>Monthly</td>
<td>100</td>
</tr>
</tbody>
</table>

*When this alternative work practice is used to identify leaking equipment, the owner or operator must choose one of the monitoring frequencies listed in this table in lieu of the monitoring frequency specified in the applicable subpart. Bi-monthly means every other month. Semi-quarterly means twice per quarter. Monthly means once per month.

Continuum would elect to use Optical Gas Imaging equipment with a detection sensitivity level of at least 60 g/hr allowing for a bi-monthly monitoring frequency. The following schedule would be targeted for 2019.
<table>
<thead>
<tr>
<th>Month</th>
<th>Monitoring Method</th>
<th>Equipment Monitored</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>Method 21</td>
<td>Compressors, Pumps, Valves, and Pressure Relief Devices</td>
</tr>
<tr>
<td>March</td>
<td>OGI</td>
<td>Compressors, Pumps, Valves, and Pressure Relief Devices</td>
</tr>
<tr>
<td>May</td>
<td>OGI</td>
<td>Compressors, Pumps, Valves, and Pressure Relief Devices</td>
</tr>
<tr>
<td>July</td>
<td>OGI</td>
<td>Compressors, Pumps, Valves, and Pressure Relief Devices</td>
</tr>
<tr>
<td>September</td>
<td>OGI</td>
<td>Compressors, Pumps, Valves, and Pressure Relief Devices</td>
</tr>
<tr>
<td>November</td>
<td>OGI</td>
<td>Compressors, Pumps, Valves, and Pressure Relief Devices</td>
</tr>
</tbody>
</table>
Request for Alternative Work Practice
Continuum Midstream, LLC – Rogersville, TN

4.0 REQUESTED PERMIT MODIFICATIONS

Continuum requests that the existing facility permit (#073577) be modified to approve the provisions requested in this alternative monitoring request as directed by 40 CFR 60.18(g) for each process subject to 40 CFR Subpart KKK at the Continuum Midstream LLC – Rogersville, TN facility.
Appendix 9: General Provisions for 40 CFR Part 63, Subpart HH

You are required to comply with the following General Provisions of the federal National Emission Standards for Hazardous Air Pollutants (NESHAP):

<table>
<thead>
<tr>
<th>General Provisions Citation 40 CFR</th>
<th>Applicable to subpart HH</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 63.1(a)(1)</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>§ 63.1(a)(2)</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>§ 63.1(a)(3)</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>§ 63.1(a)(4)</td>
<td>Yes</td>
<td></td>
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<td>§ 63.1(a)(5)</td>
<td>No</td>
<td>Section reserved.</td>
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<tr>
<td>§ 63.1(a)(6)</td>
<td>Yes</td>
<td></td>
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<tr>
<td>§ 63.1(a)(7) through (a)(9)</td>
<td>No</td>
<td>Section reserved.</td>
</tr>
<tr>
<td>§ 63.1(a)(10)</td>
<td>Yes</td>
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<tr>
<td>§ 63.1(a)(11)</td>
<td>Yes</td>
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<tr>
<td>§ 63.1(a)(12)</td>
<td>Yes</td>
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<tr>
<td>§ 63.1(b)(1)</td>
<td>No</td>
<td>Subpart HH specifies applicability.</td>
</tr>
<tr>
<td>§ 63.1(b)(2)</td>
<td>No</td>
<td>Section reserved.</td>
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<tr>
<td>§ 63.1(b)(3)</td>
<td>Yes</td>
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<tr>
<td>§ 63.1(c)(1)</td>
<td>No</td>
<td>Subpart HH specifies applicability.</td>
</tr>
<tr>
<td>§ 63.1(c)(2)</td>
<td>Yes</td>
<td>Subpart HH exempts area sources from the requirement to obtain a Title V permit unless otherwise required by law as specified in 40 CFR § 63.760(h).</td>
</tr>
<tr>
<td>§ 63.1(c)(3) and (c)(4)</td>
<td>No</td>
<td>Section reserved.</td>
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<tr>
<td>§ 63.1(c)(5)</td>
<td>Yes</td>
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<td>§ 63.1(c)(6)</td>
<td>Yes</td>
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<td>§ 63.1(d)</td>
<td>No</td>
<td>Section reserved.</td>
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<tr>
<td>§ 63.1(e)</td>
<td>Yes</td>
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<tr>
<td>§ 63.2</td>
<td>Yes</td>
<td>Except definition of major source is unique for this source category and there are additional definitions in subpart HH.</td>
</tr>
<tr>
<td>§ 63.3(a) through (c)</td>
<td>Yes</td>
<td></td>
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<tr>
<td>§ 63.4(a)(1) through (a)(2)</td>
<td>Yes</td>
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<td>§ 63.4(a)(3) through (a)(5)</td>
<td>No</td>
<td>Section reserved.</td>
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<td>§ 63.4(b)</td>
<td>Yes</td>
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<td>§ 63.4(c)</td>
<td>Yes</td>
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<td>§ 63.5(a)(1)</td>
<td>Yes</td>
<td></td>
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<td>§ 63.5(a)(2)</td>
<td>Yes</td>
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<td>§ 63.5(b)(1)</td>
<td>Yes</td>
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<td>§ 63.5(b)(2)</td>
<td>No</td>
<td>Section reserved.</td>
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<tr>
<td>§ 63.5(b)(3)</td>
<td>Yes</td>
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<td>§ 63.5(b)(4)</td>
<td>Yes</td>
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<td>§ 63.5(b)(5)</td>
<td>No</td>
<td>Section Reserved.</td>
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<td>§ 63.5(b)(6)</td>
<td>Yes</td>
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<tr>
<td>§ 63.5(c)</td>
<td>No</td>
<td>Section reserved.</td>
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<tr>
<td>§ 63.5(d)(1)</td>
<td>Yes</td>
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<tr>
<td>§ 63.5(d)(2)</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>§ 63.5(d)(3)</td>
<td>Yes</td>
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<tr>
<td>General Provisions Citation 40 CFR</td>
<td>Applicable to subpart HH</td>
<td>Explanation</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>--------------------------</td>
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<tr>
<td>§ 63.5(d)(4)</td>
<td>Yes.</td>
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<td>§ 63.5(e)</td>
<td>Yes.</td>
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<td>§ 63.5(f)(1)</td>
<td>Yes.</td>
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<td>§ 63.5(f)(2)</td>
<td>Yes.</td>
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<tr>
<td>§ 63.6(a)</td>
<td>Yes.</td>
<td></td>
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<td>§ 63.6(b)(1)</td>
<td>Yes.</td>
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<tr>
<td>§ 63.6(b)(2)</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.6(b)(3)</td>
<td>Yes.</td>
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<td>§ 63.6(b)(4)</td>
<td>Yes.</td>
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<td>§ 63.6(b)(5)</td>
<td>Yes.</td>
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<td>§ 63.6(b)(6)</td>
<td>No Section reserved.</td>
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<td>§ 63.6(b)(7)</td>
<td>Yes.</td>
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<td>§ 63.6(c)(1)</td>
<td>Yes.</td>
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<td>§ 63.6(c)(2)</td>
<td>Yes.</td>
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</tr>
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<td>No Section reserved.</td>
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<td>§ 63.6(c)(5)</td>
<td>Yes.</td>
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<tr>
<td>§ 63.6(d)</td>
<td>No Section reserved.</td>
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<tr>
<td>§ 63.6(e)(1)(i)</td>
<td>No See 40 CFR § 63.764(j) for general duty requirement.</td>
<td></td>
</tr>
<tr>
<td>§ 63.6(e)(1)(ii)</td>
<td>No.</td>
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<td>§ 63.6(e)(1)(iii)</td>
<td>Yes.</td>
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<td>§ 63.6(e)(2)</td>
<td>No Section reserved.</td>
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<td>§ 63.6(e)(3)</td>
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<td>§ 63.6(f)(1)</td>
<td>No.</td>
<td></td>
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<td>§ 63.6(f)(2)</td>
<td>Yes.</td>
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<td>§ 63.6(f)(3)</td>
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<td>§ 63.6(g)</td>
<td>Yes.</td>
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<td>§ 63.6(h)(1)</td>
<td>No.</td>
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<td>§ 63.6(h)(2) through (h)(9)</td>
<td>Yes.</td>
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<td>§ 63.6(i)(1) through (i)(14)</td>
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<td>§ 63.6(i)(15)</td>
<td>No Section reserved.</td>
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<td>§ 63.6(i)(16)</td>
<td>Yes.</td>
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<td>§ 63.6(j)</td>
<td>Yes.</td>
<td></td>
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<tr>
<td>§ 63.7(a)(1)</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.7(a)(2)</td>
<td>Yes But the performance test results must be submitted within 180 days after the compliance date.</td>
<td></td>
</tr>
<tr>
<td>§ 63.7(a)(3)</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.7(a)(4)</td>
<td>Yes.</td>
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<td>§ 63.7(c)</td>
<td>Yes.</td>
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<td>§ 63.7(d)</td>
<td>Yes.</td>
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<tr>
<td>§ 63.7(e)(1)</td>
<td>No.</td>
<td></td>
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<tr>
<td>§ 63.7(e)(2)</td>
<td>Yes.</td>
<td></td>
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<tr>
<td>§ 63.7(e)(3)</td>
<td>Yes.</td>
<td></td>
</tr>
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<td>§ 63.7(e)(4)</td>
<td>Yes.</td>
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<tr>
<td>§ 63.7(f)</td>
<td>Yes.</td>
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<td>§ 63.7(g)</td>
<td>Yes.</td>
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<tr>
<td>General Provisions Citation 40 CFR</td>
<td>Applicable to subpart HH</td>
<td>Explanation</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>--------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>§ 63.7(h)</td>
<td>Yes</td>
<td></td>
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<tr>
<td>§ 63.8(a)(1)</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>§ 63.8(a)(2)</td>
<td>Yes</td>
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<tr>
<td>§ 63.8(a)(3)</td>
<td>No</td>
<td>Section reserved.</td>
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<tr>
<td>§ 63.8(a)(4)</td>
<td>Yes</td>
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<tr>
<td>§ 63.8(b)(1)</td>
<td>Yes</td>
<td></td>
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<tr>
<td>§ 63.8(b)(2)</td>
<td>Yes</td>
<td></td>
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<tr>
<td>§ 63.8(b)(3)</td>
<td>Yes</td>
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<tr>
<td>§ 63.8(c)(1)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>§ 63.8(c)(1)(i)</td>
<td>No</td>
<td></td>
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<tr>
<td>§ 63.8(c)(1)(ii)</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>§ 63.8(c)(1)(iii)</td>
<td>No</td>
<td></td>
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<td>§ 63.8(c)(2)</td>
<td>Yes</td>
<td></td>
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<td>§ 63.8(c)(3)</td>
<td>Yes</td>
<td></td>
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<tr>
<td>§ 63.8(c)(4)</td>
<td>Yes</td>
<td></td>
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<tr>
<td>§ 63.8(c)(4)(i)</td>
<td>No</td>
<td>Subpart HH does not require continuous opacity monitors.</td>
</tr>
<tr>
<td>§ 63.8(c)(4)(ii)</td>
<td>Yes</td>
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<td>§ 63.8(c)(5) through (c)(8)</td>
<td>Yes</td>
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<td>§ 63.8(d)(1)</td>
<td>Yes</td>
<td></td>
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<tr>
<td>§ 63.8(d)(2)</td>
<td>Yes</td>
<td></td>
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<tr>
<td>§ 63.8(d)(3)</td>
<td>Yes</td>
<td>Except for last sentence, which refers to an SSM plan. SSM plans are not required.</td>
</tr>
<tr>
<td>§ 63.8(e)</td>
<td>Yes</td>
<td>Subpart HH does not specifically require continuous emissions monitor performance evaluation, however, the Administrator can request that one be conducted.</td>
</tr>
<tr>
<td>§ 63.8(f)(1) through (f)(5)</td>
<td>Yes</td>
<td></td>
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<tr>
<td>§ 63.8(f)(6)</td>
<td>Yes</td>
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<tr>
<td>§ 63.8(g)</td>
<td>No</td>
<td>Subpart HH specifies continuous monitoring system data reduction requirements.</td>
</tr>
<tr>
<td>§ 63.9(a)</td>
<td>Yes</td>
<td></td>
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<tr>
<td>§ 63.9(b)(1)</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>§ 63.9(b)(2)</td>
<td>Yes</td>
<td>Existing sources are given 1 year (rather than 120 days) to submit this notification. Major and area sources that meet 40 CFR § 63.764(e) do not have to submit initial notifications.</td>
</tr>
<tr>
<td>§ 63.9(b)(3)</td>
<td>No</td>
<td>Section reserved.</td>
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<tr>
<td>§ 63.9(b)(4)</td>
<td>Yes</td>
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<tr>
<td>§ 63.9(b)(5)</td>
<td>Yes</td>
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<td>§ 63.9(c)</td>
<td>Yes</td>
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<tr>
<td>§ 63.9(d)</td>
<td>Yes</td>
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<td>§ 63.9(e)</td>
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<td>§ 63.9(f)</td>
<td>Yes</td>
<td></td>
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<tr>
<td>§ 63.9(g)</td>
<td>Yes</td>
<td></td>
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<tr>
<td>§ 63.9(h)(1) through (h)(3)</td>
<td>Yes</td>
<td>Area sources located outside UA plus offset and UC boundaries are not required to submit notifications of compliance status.</td>
</tr>
<tr>
<td>§ 63.9(h)(4)</td>
<td>No</td>
<td>Section reserved.</td>
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<tr>
<td>§ 63.9(h)(5) through (h)(6)</td>
<td>Yes</td>
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<tr>
<td>§ 63.9(i)</td>
<td>Yes</td>
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<tr>
<td>§ 63.9(j)</td>
<td>Yes</td>
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<tr>
<td>§ 63.9(k)</td>
<td>Yes</td>
<td>Only as specified in 40 CFR § 63.9(j).</td>
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<tr>
<td>General Provisions Citation 40 CFR</td>
<td>Applicable to subpart HH</td>
<td>Explanation</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>--------------------------</td>
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<tr>
<td>§ 63.10(a)</td>
<td>Yes</td>
<td></td>
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<tr>
<td>§ 63.10(b)(1)</td>
<td>Yes</td>
<td>40 CFR § 63.774(b)(1) requires sources to maintain the most recent 12 months of data on-site and allows offsite storage for the remaining 4 years of data.</td>
</tr>
<tr>
<td>§ 63.10(b)(2)</td>
<td>Yes</td>
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<tr>
<td>§ 63.10(b)(2)(i)</td>
<td>No</td>
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<tr>
<td>§ 63.10(b)(2)(ii)</td>
<td>No</td>
<td>See 40 CFR § 63.774(g) for recordkeeping of (1) occurrence and duration and (2) actions taken during malfunctions.</td>
</tr>
<tr>
<td>§ 63.10(b)(2)(iii)</td>
<td>Yes</td>
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<td>§ 63.10(b)(2)(iv) through (b)(2)(v)</td>
<td>No</td>
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<td>§ 63.10(b)(2)(vi) through (b)(2)(xiv)</td>
<td>Yes</td>
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<tr>
<td>§ 63.10(b)(3)</td>
<td>Yes</td>
<td>40 CFR § 63.774(b)(1) requires sources to maintain the most recent 12 months of data on-site and allows offsite storage for the remaining 4 years of data.</td>
</tr>
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<td>§ 63.10(c)(1)</td>
<td>Yes</td>
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<td>§ 63.10(c)(2) through (c)(4)</td>
<td>No</td>
<td>Sections reserved.</td>
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<td>§ 63.10(c)(5) through (c)(8)</td>
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<td>§ 63.10(c)(9)</td>
<td>No</td>
<td>Section reserved.</td>
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<td>§ 63.10(c)(10) through (11)</td>
<td>No</td>
<td>See 40 CFR § 63.774(g) for recordkeeping of malfunctions.</td>
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<td>§ 63.10(c)(12) through (14)</td>
<td>Yes</td>
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<td>§ 63.10(c)(15)</td>
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<td>§ 63.10(d)(1)</td>
<td>Yes</td>
<td></td>
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<tr>
<td>§ 63.10(d)(2)</td>
<td>Yes</td>
<td>Area sources located outside UA plus offset and UC boundaries do not have to submit performance test reports.</td>
</tr>
<tr>
<td>§ 63.10(d)(3)</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>§ 63.10(d)(4)</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>§ 63.10(d)(5)</td>
<td>No</td>
<td>See 40 CFR § 63.775(b)(6) or (c)(6) for reporting of malfunctions.</td>
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<tr>
<td>§ 63.10(e)(1)</td>
<td>Yes</td>
<td>Area sources located outside UA plus offset and UC boundaries are not required to submit reports.</td>
</tr>
<tr>
<td>§ 63.10(e)(2)</td>
<td>Yes</td>
<td>Area sources located outside UA plus offset and UC boundaries are not required to submit reports.</td>
</tr>
<tr>
<td>§ 63.10(e)(3)(i)</td>
<td>Yes</td>
<td>Subpart HH requires major sources to submit Periodic Reports semi-annually. Area sources are required to submit Periodic Reports annually. Area sources located outside UA plus offset and UC boundaries are not required to submit reports.</td>
</tr>
<tr>
<td>§ 63.10(e)(3)(i)(A)</td>
<td>Yes</td>
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<tr>
<td>§ 63.10(e)(3)(i)(B)</td>
<td>Yes</td>
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<tr>
<td>§ 63.10(e)(3)(i)(C)</td>
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<td>§ 63.10(e)(3)(i)(D)</td>
<td>Yes</td>
<td>Section reserved.</td>
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<td>§ 63.10(e)(3)(ii) through (viii)</td>
<td>Yes</td>
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<tr>
<td>§ 63.10(e)(4)</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>§ 63.10(f)</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>§ 63.11(a) and (b)</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>§ 63.11(c), (d), and (e)</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>§ 63.12(a) through (c)</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>
General Provisions Citation 40 CFR | Applicable to subpart HH | Explanation
--- | --- | ---
§ 63.13(a) through (c) | Yes. |  
§ 63.14(a) through (q) | Yes. |  
§ 63.15(a) and (b) | Yes. |  
§ 63.16 | Yes. |  

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Appendix 10: Table 8 to Subpart ZZZZ of Part 63 - Applicability of General Provisions to Subpart ZZZZ.

You are required to comply with the following General Provisions of the federal National Emission Standards for Hazardous Air Pollutants (NESHAP):

<table>
<thead>
<tr>
<th>General provisions citation</th>
<th>Subject of citation</th>
<th>Applies to subpart</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 63.1</td>
<td>General applicability of the General Provisions</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.2</td>
<td>Definitions</td>
<td>Yes</td>
<td>Additional terms defined in 40 CFR § 63.6675.</td>
</tr>
<tr>
<td>§ 63.3</td>
<td>Units and abbreviations</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.4</td>
<td>Prohibited activities and circumvention</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.5</td>
<td>Construction and reconstruction</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.6(a)</td>
<td>Applicability</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.6(b)(1)-(4)</td>
<td>Compliance dates for new and reconstructed sources</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.6(b)(5)</td>
<td>Notification</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.6(b)(6)</td>
<td>[Reserved]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>§ 63.6(b)(7)</td>
<td>Compliance dates for new and reconstructed area sources that become major sources</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.6(c)(1)-(2)</td>
<td>Compliance dates for existing sources</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.6(c)(3)-(4)</td>
<td>[Reserved]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>§ 63.6(c)(5)</td>
<td>Compliance dates for existing area sources that become major sources</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.6(d)</td>
<td>[Reserved]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>§ 63.6(e)</td>
<td>Operation and maintenance</td>
<td>No.</td>
<td></td>
</tr>
<tr>
<td>§ 63.6(f)(1)</td>
<td>Applicability of standards</td>
<td>No.</td>
<td></td>
</tr>
<tr>
<td>§ 63.6(f)(2)</td>
<td>Methods for determining compliance</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.6(f)(3)</td>
<td>Finding of compliance</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.6(g)(1)-(3)</td>
<td>Use of alternate standard</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.6(h)</td>
<td>Opacity and visible emission standards</td>
<td>No</td>
<td>Subpart ZZZZ does not contain opacity or visible emission standards.</td>
</tr>
<tr>
<td>§ 63.6(i)</td>
<td>Compliance extension procedures and criteria</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.6(j)</td>
<td>Presidential compliance exemption</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.7(a)(1)-(2)</td>
<td>Performance test dates</td>
<td>Yes</td>
<td>Subpart ZZZZ contains performance test dates at 40 CFR §§ 63.6610, 63.6611, and 63.6612.</td>
</tr>
<tr>
<td>§ 63.7(a)(3)</td>
<td>CAA section 114 authority</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.7(b)(1)</td>
<td>Notification of performance test</td>
<td>Yes</td>
<td>Except that 40 CFR § 63.7(b)(1) only applies as specified in 40 CFR § 63.6645.</td>
</tr>
<tr>
<td>§ 63.7(b)(2)</td>
<td>Notification of rescheduling</td>
<td>Yes</td>
<td>Except that 40 CFR § 63.7(b)(2) only applies as specified in 40 CFR § 63.6645.</td>
</tr>
<tr>
<td>§ 63.7(c)</td>
<td>Quality assurance/test plan</td>
<td>Yes</td>
<td>Except that 40 CFR § 63.7(c) only applies as specified in 40 CFR § 63.6645.</td>
</tr>
<tr>
<td>§ 63.7(d)</td>
<td>Testing facilities</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>General provisions citation 40 CFR</td>
<td>Subject of citation</td>
<td>Applies to subpart</td>
<td>Explanation</td>
</tr>
<tr>
<td>-----------------------------------</td>
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</tr>
<tr>
<td>§ 63.7(e)(1)</td>
<td>Conditions for conducting performance tests</td>
<td>No.</td>
<td>Subpart ZZZZ specifies conditions for conducting performance tests at 40 CFR § 63.6620.</td>
</tr>
<tr>
<td>§ 63.7(e)(2)</td>
<td>Conduct of performance tests and reduction of data</td>
<td>Yes</td>
<td>Subpart ZZZZ specifies test methods at 40 CFR § 63.6620.</td>
</tr>
<tr>
<td>§ 63.7(e)(3)</td>
<td>Test run duration</td>
<td>Yes.</td>
<td></td>
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<tr>
<td>§ 63.7(e)(4)</td>
<td>Administrator may require other testing under section 114 of the CAA</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.7(f)</td>
<td>Alternative test method provisions</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.7(g)</td>
<td>Performance test data analysis, recordkeeping, and reporting</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.7(h)</td>
<td>Waiver of tests</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.8(a)(1)</td>
<td>Applicability of monitoring requirements</td>
<td>Yes</td>
<td>Subpart ZZZZ contains specific requirements for monitoring at 40 CFR § 63.6625.</td>
</tr>
<tr>
<td>§ 63.8(a)(2)</td>
<td>Performance specifications</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.8(a)(3)</td>
<td>[Reserved]</td>
<td></td>
<td></td>
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<tr>
<td>§ 63.8(a)(4)</td>
<td>Monitoring for control devices</td>
<td>No.</td>
<td></td>
</tr>
<tr>
<td>§ 63.8(b)(1)</td>
<td>Monitoring</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.8(b)(2)-(3)</td>
<td>Multiple effluents and multiple monitoring systems</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.8(c)(1)</td>
<td>Monitoring system operation and maintenance</td>
<td>Yes.</td>
<td></td>
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<tr>
<td>§ 63.8(c)(1)(i)</td>
<td>Routine and predictable SSM</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>§ 63.8(c)(1)(ii)</td>
<td>SSM not in Startup Shutdown Malfunction Plan</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.8(c)(1)(iii)</td>
<td>Compliance with operation and maintenance requirements</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>§ 63.8(c)(2)-(3)</td>
<td>Monitoring system installation</td>
<td>Yes.</td>
<td></td>
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<tr>
<td>§ 63.8(c)(4)</td>
<td>Continuous monitoring system (CMS) requirements</td>
<td>Yes</td>
<td>Except that subpart ZZZZ does not require Continuous Opacity Monitoring System (COMS).</td>
</tr>
<tr>
<td>§ 63.8(c)(5)</td>
<td>COMS minimum procedures</td>
<td>No</td>
<td>Subpart ZZZZ does not require COMS.</td>
</tr>
<tr>
<td>§ 63.8(c)(6)-(8)</td>
<td>CMS requirements</td>
<td>Yes</td>
<td>Except that subpart ZZZZ does not require COMS.</td>
</tr>
<tr>
<td>§ 63.8(d)</td>
<td>CMS quality control</td>
<td>Yes.</td>
<td></td>
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<tr>
<td>§ 63.8(e)</td>
<td>CMS performance evaluation</td>
<td>Yes</td>
<td>Except for 40 CFR § 63.8(e)(5)(ii), which applies to COMS.</td>
</tr>
<tr>
<td>§ 63.8(f)(1)-(5)</td>
<td>Alternative monitoring method</td>
<td>Yes</td>
<td>Except that 40 CFR § 63.8(f)(4) only applies as specified in 40 CFR § 63.6645.</td>
</tr>
<tr>
<td>§ 63.8(f)(6)</td>
<td>Alternative to relative accuracy test</td>
<td>Yes</td>
<td>Except that 40 CFR § 63.8(f)(6) only applies as specified in § 63.6645.</td>
</tr>
<tr>
<td>§ 63.8(g)</td>
<td>Data reduction</td>
<td>Yes</td>
<td>Except that provisions for COMS are not applicable. Averaging periods for demonstrating compliance are specified at 40 CFR §§ 63.6635 and 63.6640.</td>
</tr>
<tr>
<td>General provisions citation 40 CFR</td>
<td>Subject of citation</td>
<td>Applies to subpart</td>
<td>Explanation</td>
</tr>
<tr>
<td>-----------------------------------</td>
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</tr>
<tr>
<td>§ 63.9(a)</td>
<td>Applicability and State delegation of notification requirements</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.9(b)(1)-(5)</td>
<td>Initial notifications</td>
<td>Yes</td>
<td>Except that 40 CFR § 63.9(b)(3) is reserved.</td>
</tr>
<tr>
<td>§ 63.9(c)</td>
<td>Request for compliance extension</td>
<td>Yes</td>
<td>Except that 40 CFR § 63.9(c) only applies as specified in 40 CFR § 63.6645.</td>
</tr>
<tr>
<td>§ 63.9(d)</td>
<td>Notification of special compliance requirements for new sources</td>
<td>Yes</td>
<td>Except that 40 CFR § 63.9(d) only applies as specified in 40 CFR § 63.6645.</td>
</tr>
<tr>
<td>§ 63.9(e)</td>
<td>Notification of performance test</td>
<td>Yes</td>
<td>Except that 40 CFR § 63.9(e) only applies as specified in 40 CFR § 63.6645.</td>
</tr>
<tr>
<td>§ 63.9(f)</td>
<td>Notification of visible emission (VE)/opacity test</td>
<td>No</td>
<td>Subpart ZZZZ does not contain opacity or VE standards.</td>
</tr>
<tr>
<td>§ 63.9(g)(1)</td>
<td>Notification of performance evaluation</td>
<td>Yes</td>
<td>Except that 40 CFR § 63.9(g) only applies as specified in 40 CFR § 63.6645.</td>
</tr>
<tr>
<td>§ 63.9(g)(2)</td>
<td>Notification of use of COMS data</td>
<td>No</td>
<td>Subpart ZZZZ does not contain opacity or VE standards.</td>
</tr>
<tr>
<td>§ 63.9(g)(3)</td>
<td>Notification that criterion for alternative to RATA is exceeded</td>
<td>Yes</td>
<td>If alternative is in use.</td>
</tr>
<tr>
<td>§ 63.9(h)(1)-(6)</td>
<td>Notification of compliance status</td>
<td>Yes</td>
<td>Except that 40 CFR § 63.9(h) only applies as specified in 40 CFR § 63.6645.</td>
</tr>
<tr>
<td>§ 63.9(i)</td>
<td>Adjustment of submittal deadlines</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.9(j)</td>
<td>Change in previous information</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.10(a)</td>
<td>Administrative provisions for recordkeeping/reporting</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.10(b)(1)</td>
<td>Record retention</td>
<td>Yes</td>
<td>Except that the most recent 2 years of data do not have to be retained on site.</td>
</tr>
<tr>
<td>§ 63.10(b)(2)(i)-(v)</td>
<td>Records related to SSM</td>
<td>No.</td>
<td></td>
</tr>
<tr>
<td>§ 63.10(b)(2)(vi)-(xi)</td>
<td>Records</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.10(b)(2)(xii)</td>
<td>Record when under waiver</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.10(b)(2)(xiii)</td>
<td>Records when using alternative to RATA</td>
<td>Yes</td>
<td>For CO standard if using RATA alternative.</td>
</tr>
<tr>
<td>§ 63.10(b)(2)(xiv)</td>
<td>Records of supporting documentation</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.10(b)(3)</td>
<td>Records of applicability determination</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.10(c)</td>
<td>Additional records for sources using CEMS</td>
<td>Yes</td>
<td>Except that 40 CFR § 63.10(c)(2)-(4) and (9) are reserved.</td>
</tr>
<tr>
<td>§ 63.10(d)(1)</td>
<td>General reporting requirements</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>General provisions citation 40 CFR</td>
<td>Subject of citation</td>
<td>Applies to subpart</td>
<td>Explanation</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>----------------------------------------------------------</td>
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<td>--------------------------------------------------</td>
</tr>
<tr>
<td>§ 63.10(d)(2)</td>
<td>Report of performance test results</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.10(d)(3)</td>
<td>Reporting opacity or VE observations</td>
<td>No</td>
<td>Subpart ZZZZ does not contain opacity or VE standards.</td>
</tr>
<tr>
<td>§ 63.10(d)(4)</td>
<td>Progress reports</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.10(d)(5)</td>
<td>Startup, shutdown, and malfunction reports</td>
<td>No.</td>
<td></td>
</tr>
<tr>
<td>§ 63.10(e)(1) and (2)(i)</td>
<td>Additional CMS Reports</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.10(e)(2)(ii)</td>
<td>COMS-related report</td>
<td>No</td>
<td>Subpart ZZZZ does not require COMS.</td>
</tr>
<tr>
<td>§ 63.10(e)(3)</td>
<td>Excess emission and parameter exceedances reports</td>
<td>Yes.</td>
<td>Except that 40 CFR § 63.10(e)(3)(i)(C) is reserved.</td>
</tr>
<tr>
<td>§ 63.10(e)(4)</td>
<td>Reporting COMS data</td>
<td>No</td>
<td>Subpart ZZZZ does not require COMS.</td>
</tr>
<tr>
<td>§ 63.10(f)</td>
<td>Waiver for recordkeeping/reporting</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.11</td>
<td>Flares</td>
<td>No.</td>
<td></td>
</tr>
<tr>
<td>§ 63.12</td>
<td>State authority and delegations</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.13</td>
<td>Addresses</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.14</td>
<td>Incorporation by reference</td>
<td>Yes.</td>
<td></td>
</tr>
<tr>
<td>§ 63.15</td>
<td>Availability of information</td>
<td>Yes.</td>
<td></td>
</tr>
</tbody>
</table>

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