Permit to Operate

Pursuant to
Title V
of the Clean Air Act

Issued to:
Appalachia Midstream Services, L.L.C.
Battle Run Compressor Station
R30-06900107-2018

William F. Durham
Director, Division of Air Quality

Issued: September 18, 2018 • Effective: October 2, 2018
Expiration: September 18, 2023 • Renewal Application Due: March 18, 2023
Permit Number: R30-06900107-2018
Permittee: Appalachia Midstream Services, L.L.C.
Facility Name: Battle Run Compressor Station
Permittee Mailing Address: 100 Teletech Drive, Suite 2; Moundsville, WV 26041-2352

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

Facility Location: Valley Grove, Ohio County, West Virginia
Facility Mailing Address: 297 Windmill Truckers Road; Valley Grove, WV 26060
Telephone Number: (304) 547-0444
Type of Business Entity: LLC
Facility Description: Natural Gas Compressor Station
SIC Codes: 1389
UTM Coordinates: 536.535 km Easting • 4,436.030 km Northing • Zone 17

Permit Writer: Rex Compston, P.E.

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

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

1.0. Emission Units and Active R13, R14, and R19 Permits ................................................................. 3

2.0. General Conditions ......................................................................................................................... 5

3.0. Facility-Wide Requirements and Permit Shield ............................................................................ 14

**Source-specific Requirements**

4.0. Engines, Generator, Compressor Rod Packing ............................................................................. 21

5.0. 40CFR60, Subpart JJJJ Requirements ......................................................................................... 24

6.0. 40CFR60, Subpart OOOO Requirements ..................................................................................... 29

7.0. Hazardous Air Pollutant Requirements Natural Gas Dehydration Units Not Subject to MACT Standards and being controlled by Condenser and Recycling the Dehydration Unit Back to Flame Zone of Reboiler ................................................................. 34

8.0. Reboilers and Heat Treaters ......................................................................................................... 37

9.0. Storage Tanks ............................................................................................................................ 39

10.0. Truck Loading ............................................................................................................................ 44

11.0. Compressor Blowdowns and Pigging Operations .................................................................... 46
1.0 Emission Units and Active R13, R14, and R19 Permits

1.1. Emission Units

<table>
<thead>
<tr>
<th>Emission Unit ID</th>
<th>Emission Point ID</th>
<th>Emission Unit Description</th>
<th>Year Installed</th>
<th>Design Capacity</th>
<th>Control Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUCE-1</td>
<td>EPCE-1</td>
<td>Caterpillar G3516B Compressor Engine</td>
<td>2012</td>
<td>1,380 hp</td>
<td>Ox Cat</td>
</tr>
<tr>
<td>EUCE-2</td>
<td>EPCE-2</td>
<td>Caterpillar G3516B Compressor Engine</td>
<td>2012</td>
<td>1,380 hp</td>
<td>Ox Cat</td>
</tr>
<tr>
<td>EUCE-3</td>
<td>EPCE-3</td>
<td>Caterpillar G3516B Compressor Engine</td>
<td>2012</td>
<td>1,380 hp</td>
<td>Ox Cat</td>
</tr>
<tr>
<td>EUCE-4</td>
<td>EPCE-4</td>
<td>Caterpillar G3516B Compressor Engine</td>
<td>2012</td>
<td>1,380 hp</td>
<td>Ox Cat</td>
</tr>
<tr>
<td>EUCE-5</td>
<td>EPCE-5</td>
<td>Caterpillar G3516B Compressor Engine</td>
<td>2012</td>
<td>1,380 hp</td>
<td>Ox Cat</td>
</tr>
<tr>
<td>EUCE-6</td>
<td>EPCE-6</td>
<td>Caterpillar G3516B Compressor Engine</td>
<td>2012</td>
<td>1,380 hp</td>
<td>Ox Cat</td>
</tr>
<tr>
<td>EUCE-7</td>
<td>EPCE-7</td>
<td>Caterpillar G3516B Compressor Engine</td>
<td>2012</td>
<td>1,380 hp</td>
<td>Ox Cat</td>
</tr>
<tr>
<td>EUCE-8</td>
<td>EPCE-8</td>
<td>Caterpillar G3516B Compressor Engine</td>
<td>2012</td>
<td>1,380 hp</td>
<td>Ox Cat</td>
</tr>
<tr>
<td>EUCE-9</td>
<td>EPCE-9</td>
<td>Caterpillar G3516B Compressor Engine</td>
<td>2012</td>
<td>1,380 hp</td>
<td>Ox Cat</td>
</tr>
<tr>
<td>EUCE-10</td>
<td>EPCE-10</td>
<td>Caterpillar G3516B Compressor Engine</td>
<td>2012</td>
<td>1,380 hp</td>
<td>Ox Cat</td>
</tr>
<tr>
<td>EUCE-11</td>
<td>EPCE-11</td>
<td>Caterpillar G3516B Compressor Engine</td>
<td>2012</td>
<td>1,380 hp</td>
<td>Ox Cat</td>
</tr>
<tr>
<td>EUCE-12</td>
<td>EPCE-12</td>
<td>Caterpillar G3516B Compressor Engine</td>
<td>2012</td>
<td>1,380 hp</td>
<td>Ox Cat</td>
</tr>
<tr>
<td>EUCRP</td>
<td>EPCR</td>
<td>Compressor Rod Packing</td>
<td>2012</td>
<td>12 units</td>
<td>None</td>
</tr>
<tr>
<td>EUGEN-2</td>
<td>EPGEN</td>
<td>Baldor Generator Engine</td>
<td>2012</td>
<td>605 hp</td>
<td>NSCR</td>
</tr>
<tr>
<td>EUDHY-1</td>
<td>EPSTL-1</td>
<td>Dehydrator 01 (BTEX Buster)</td>
<td>2012</td>
<td>55 mmmscfd</td>
<td>BTEX-01</td>
</tr>
<tr>
<td>EUDHY-2</td>
<td>EPSTL-2</td>
<td>Dehydrator 02 (BTEX Buster)</td>
<td>2012</td>
<td>55 mmmscfd</td>
<td>BTEX-02</td>
</tr>
<tr>
<td>EUDHY-3</td>
<td>EPSTL-3</td>
<td>Dehydrator 03 (BTEX Buster)</td>
<td>2012</td>
<td>55 mmmscfd</td>
<td>BTEX-03</td>
</tr>
<tr>
<td>EURBL-1</td>
<td>EPRBL-1</td>
<td>Reboiler 01</td>
<td>2012</td>
<td>1.0 MMBTU/hr</td>
<td>None</td>
</tr>
<tr>
<td>EURBL-2</td>
<td>EPRBL-2</td>
<td>Reboiler 02</td>
<td>2012</td>
<td>1.0 MMBTU/hr</td>
<td>None</td>
</tr>
<tr>
<td>EURBL-3</td>
<td>EPRBL-3</td>
<td>Reboiler 03</td>
<td>2012</td>
<td>1.0 MMBTU/hr</td>
<td>None</td>
</tr>
<tr>
<td>EUHT-1</td>
<td>EPHT-1</td>
<td>Heater Treater Burner 01</td>
<td>2012</td>
<td>0.50 MMBTU/hr</td>
<td>None</td>
</tr>
<tr>
<td>EUHT-2</td>
<td>EPHT-2</td>
<td>Heater Treater Burner 02</td>
<td>2012</td>
<td>0.50 MMBTU/hr</td>
<td>None</td>
</tr>
<tr>
<td>EUTK-1-8</td>
<td>EPTK-1-8</td>
<td>Stabilized Condensate Storage Tanks</td>
<td>2012</td>
<td>400 bbl each (16,800 gal)</td>
<td>VDU^1</td>
</tr>
<tr>
<td>EUWTK-1-2</td>
<td>EPWTK-1-2</td>
<td>Produced Water Storage Tanks</td>
<td>2012</td>
<td>400 bbl each (16,800 gal)</td>
<td>None</td>
</tr>
<tr>
<td>EULOAD-1</td>
<td>ELOAD-1</td>
<td>Stabilized Condensate Truck Loading</td>
<td>2012</td>
<td>9,965 Mgal/yr</td>
<td>Carbon Canister</td>
</tr>
<tr>
<td>EULOAD-2</td>
<td>ELOAD-2</td>
<td>Produced Water Truck Loading</td>
<td>2012</td>
<td>1,533 Mgal/yr</td>
<td>Carbon Canister</td>
</tr>
<tr>
<td>EUBD</td>
<td>EPBD</td>
<td>Compressor Blowdown/Emergency Shutdown Tests</td>
<td>2012</td>
<td>1,249 events/yr</td>
<td>None</td>
</tr>
<tr>
<td>EUPIG</td>
<td>EPPIG</td>
<td>Pigging Operations</td>
<td>2012</td>
<td>104 events/yr</td>
<td>None</td>
</tr>
<tr>
<td>EUFUG</td>
<td>EPFUG</td>
<td>Piping &amp; Equipment Leaks</td>
<td>2012</td>
<td>7,472 gas units, 3,407 liquid units</td>
<td>None</td>
</tr>
<tr>
<td>EUECC</td>
<td>EPECC</td>
<td>Engine Crankcase Fugitives</td>
<td>2012</td>
<td>17,165 hp</td>
<td>None</td>
</tr>
</tbody>
</table>

1 - Working, Breathing, and Flashing losses routed to Vapor Recovery Unit for recirculation back into the process.
<table>
<thead>
<tr>
<th>Emission Unit ID</th>
<th>Pollutant</th>
<th>Control Device</th>
<th>Control Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,380 hp Caterpillar G3516B RICE w/ Oxidation Catalyst (EPCE-1 – EPCE-12)</td>
<td>Carbon Monoxide</td>
<td>Oxidation Catalyst</td>
<td>85 %</td>
</tr>
<tr>
<td></td>
<td>Volatile Organic Compounds</td>
<td></td>
<td>82.5 %</td>
</tr>
<tr>
<td></td>
<td>Formaldehyde</td>
<td></td>
<td>90 %</td>
</tr>
<tr>
<td>TEG Dehydrator Still Vents (EPSTL-1, EPSTL-2, &amp; EPSTL-3)</td>
<td>Volatile Organic Compounds</td>
<td>Condensers, Recycled to Flame Zone of Reboilers</td>
<td>95 %</td>
</tr>
<tr>
<td></td>
<td>Hazardous Air Pollutants</td>
<td></td>
<td>95 %</td>
</tr>
<tr>
<td>Storage Tanks</td>
<td>Volatile Organic Compounds</td>
<td>Vapor Recovery Unit</td>
<td>95 %</td>
</tr>
<tr>
<td>(EPTK-1 – EPTK-8)</td>
<td>Hazardous Air Pollutants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Truck Loading</td>
<td>Volatile Organic Compounds</td>
<td>Carbon Canister</td>
<td>95 % (70% capture)</td>
</tr>
<tr>
<td>(EPLOAD-1, EPLOAD-2)</td>
<td>Hazardous Air Pollutants</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 1.2. Active R13, R14, and R19 Permits

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

<table>
<thead>
<tr>
<th>Permit Number</th>
<th>Date of Issuance</th>
</tr>
</thead>
<tbody>
<tr>
<td>R13-2916B</td>
<td>May 15, 2018</td>
</tr>
</tbody>
</table>
2.0 General Conditions

2.1 Definitions

2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.

2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.

2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary’s designated representative for the purposes of this permit.

2.1.4. Unless otherwise specified in a permit condition or underlying rule or regulation, all references to a “rolling yearly total” shall mean the sum of the monthly data, values or parameters being measured, monitored, or recorded, at any given time for the previous twelve (12) consecutive calendar months.

2.2 Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAAA</td>
<td>Clean Air Act Amendments</td>
</tr>
<tr>
<td>CBI</td>
<td>Confidential Business Information</td>
</tr>
<tr>
<td>CEM</td>
<td>Continuous Emission Monitor</td>
</tr>
<tr>
<td>CES</td>
<td>Certified Emission Statement</td>
</tr>
<tr>
<td>C.F.R. or CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>CO</td>
<td>Carbon Monoxide</td>
</tr>
<tr>
<td>C.S.R. or CSR</td>
<td>Codes of State Rules</td>
</tr>
<tr>
<td>DAQ</td>
<td>Division of Air Quality</td>
</tr>
<tr>
<td>DEP</td>
<td>Department of Environmental Protection</td>
</tr>
<tr>
<td>FOIA</td>
<td>Freedom of Information Act</td>
</tr>
<tr>
<td>HAP</td>
<td>Hazardous Air Pollutant</td>
</tr>
<tr>
<td>HON</td>
<td>Hazardous Organic NESHAP</td>
</tr>
<tr>
<td>HP</td>
<td>Horsepower</td>
</tr>
<tr>
<td>lbs/hr or lb/hr</td>
<td>Pounds per Hour</td>
</tr>
<tr>
<td>LDAR</td>
<td>Leak Detection and Repair</td>
</tr>
<tr>
<td>m</td>
<td>Thousand</td>
</tr>
<tr>
<td>MACT</td>
<td>Maximum Achievable Control Technology</td>
</tr>
<tr>
<td>mm</td>
<td>Million</td>
</tr>
<tr>
<td>mmBtu/hr</td>
<td>Million British Thermal Units per Hour</td>
</tr>
<tr>
<td>mmcf/hr or mrcf/hr</td>
<td>Million Cubic Feet Burned per Hour</td>
</tr>
<tr>
<td>NA or N/A</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>NAAQS</td>
<td>National Ambient Air Quality Standards</td>
</tr>
<tr>
<td>NESHAPS</td>
<td>National Emissions Standards for Hazardous Air Pollutants</td>
</tr>
<tr>
<td>NOx</td>
<td>Nitrogen Oxides</td>
</tr>
<tr>
<td>NSPS</td>
<td>New Source Performance Standards</td>
</tr>
<tr>
<td>PM</td>
<td>Particulate Matter</td>
</tr>
<tr>
<td>PM10</td>
<td>Particulate Matter less than 10µm in diameter</td>
</tr>
<tr>
<td>pph</td>
<td>Pounds per Hour</td>
</tr>
<tr>
<td>ppm</td>
<td>Parts per Million</td>
</tr>
<tr>
<td>PSD</td>
<td>Prevention of Significant Deterioration</td>
</tr>
<tr>
<td>psi</td>
<td>Pounds per Square Inch</td>
</tr>
<tr>
<td>SIC</td>
<td>Standard Industrial Classification</td>
</tr>
<tr>
<td>SIP</td>
<td>State Implementation Plan</td>
</tr>
<tr>
<td>SO₂</td>
<td>Sulfur Dioxide</td>
</tr>
<tr>
<td>TAP</td>
<td>Toxic Air Pollutant</td>
</tr>
<tr>
<td>TPS</td>
<td>Tons per Year</td>
</tr>
<tr>
<td>TRS</td>
<td>Total Reduced Sulfur</td>
</tr>
<tr>
<td>USEPA</td>
<td>Total Suspended Particulate</td>
</tr>
<tr>
<td>UTM</td>
<td>United States Environmental Protection Agency</td>
</tr>
<tr>
<td>VEE</td>
<td>Universal Transverse Mercator</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
</tr>
</tbody>
</table>

West Virginia Department of Environmental Protection • Division of Air Quality
Approved: September 18, 2018 • Modified: N/A
2.3. Permit Expiration and Renewal

2.3.1. Permit duration. This permit is issued for a fixed term of five (5) years and shall expire on the date specified on the cover of this permit, except as provided in 45CSR§30-6.3.b. and 45CSR§30-6.3.c. [45CSR§30-5.1.b.]

2.3.2. A permit renewal application is timely if it is submitted at least six (6) months prior to the date of permit expiration. [45CSR§30-4.1.a.3.]

2.3.3. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 45CSR§30-6.2. and 45CSR§30-4.1.a.3. [45CSR§30-6.3.b.]

2.3.4. If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time. [45CSR§30-6.3.c.]

2.4. Permit Actions

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

2.5. Reopening for Cause

2.5.1. This permit shall be reopened and revised under any of the following circumstances:

a. Additional applicable requirements under the Clean Air Act or the Secretary's legislative rules become applicable to a major source with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 45CSR§30-6.6.a.1.A. or B.

b. Additional requirements (including excess emissions requirements) become applicable to an affected source under Title IV of the Clean Air Act (Acid Deposition Control) or other legislative rules of the Secretary. Upon approval by U.S. EPA, excess emissions offset plans shall be incorporated into the permit.

c. The Secretary or U.S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

d. The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.

[45CSR§30-6.6.a.]
2.6. Administrative Permit Amendments

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

[45CSR§30-6.4.]

2.7. Minor Permit Modifications

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

[45CSR§30-6.5.a.]

2.8. Significant Permit Modification

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

[45CSR§30-6.5.b.]

2.9. Emissions Trading

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

[45CSR§30-5.1.h.]

2.10. Off-Permit Changes

2.10.1. Except as provided below, a facility may make any change in its operations or emissions that is not addressed nor prohibited in its permit and which is not considered to be construction nor modification under any rule promulgated by the Secretary without obtaining an amendment or modification of its permit. Such changes shall be subject to the following requirements and restrictions:

a. The change must meet all applicable requirements and may not violate any existing permit term or condition.

b. The permittee must provide a written notice of the change to the Secretary and to U.S. EPA within two (2) business days following the date of the change. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.

c. The change shall not qualify for the permit shield.

d. The permittee shall keep records describing all changes made at the source that result in emissions of regulated air pollutants, but not otherwise regulated under the permit, and the emissions resulting from those changes.

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

[45CSR§30-5.9.]

2.11. Operational Flexibility

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

[45CSR§30-5.8]

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

[45CSR§30-5.8.a.]

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

a. If subsequent changes cause the facility's operations and emissions to revert to those authorized in the permit and the permittee resumes compliance with the terms and conditions of the permit, or

b. If the permittee obtains final approval of a significant modification to the permit to incorporate the change in the permit.

[45CSR§30-5.8.c.]

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

[45CSR§30-2.39]
2.12. Reasonably Anticipated Operating Scenarios

2.12.1. The following are terms and conditions for reasonably anticipated operating scenarios identified in this permit.

a. Contemporaneously with making a change from one operating scenario to another, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating and to document the change in reports submitted pursuant to the terms of this permit and 45CSR30.

b. The permit shield shall extend to all terms and conditions under each such operating scenario; and

c. The terms and conditions of each such alternative scenario shall meet all applicable requirements and the requirements of 45CSR30.

[45CSR§30-5.1.i.]

2.13. Duty to Comply

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

[45CSR§30-5.1.f.1.]

2.14. Inspection and Entry

2.14.1. The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;

d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

[45CSR§30-5.3.b.]
2.15. Schedule of Compliance

2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:

a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.

[45CSR§30-5.3.d.]

2.16. Need to Halt or Reduce Activity not a Defense

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

[45CSR§30-5.1.f.2.]

2.17. Emergency

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

[45CSR§30-5.7.a.]

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

[45CSR§30-5.7.b.]

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

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The permitted facility was at the time being properly operated;

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

[45CSR§30-5.7.e.]

2.17.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
[45CSR§30-5.7.d.]

2.17.5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.
[45CSR§30-5.7.e.]

2.18. Federally-Enforceable Requirements

2.18.1. All terms and conditions in this permit, including any provisions designed to limit a source's potential to emit and excepting those provisions that are specifically designated in the permit as "State-enforceable only", are enforceable by the Secretary, USEPA, and citizens under the Clean Air Act.
[45CSR§30-5.2.a.]

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

2.19. Duty to Provide Information

2.19.1. The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records required to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.
[45CSR§30-5.1.f.5.]

2.20. Duty to Supplement and Correct Information

2.20.1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.
[45CSR§30-4.2.]
2.21. Permit Shield

2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and are specifically identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof. [45CSR§30-5.6.a.]

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

a. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; or

b. The applicable requirements of the Code of West Virginia and Title IV of the Clean Air Act (Acid Deposition Control), consistent with § 408 (a) of the Clean Air Act.

c. The authority of the Administrator of U.S. EPA to require information under § 114 of the Clean Air Act or to issue emergency orders under § 303 of the Clean Air Act. [45CSR§30-5.6.c.]

2.22. Credible Evidence

2.22.1. Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee including but not limited to any challenge to the credible evidence rule in the context of any future proceeding. [45CSR§30-5.3.e.3.B. and 45CSR38]

2.23. Severability

2.23.1. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid by a court of competent jurisdiction, the remaining permit terms and conditions or their application to other circumstances shall remain in full force and effect. [45CSR§30-5.1.e.]

2.24. Property Rights

2.24.1. This permit does not convey any property rights of any sort or any exclusive privilege. [45CSR§30-5.1.f.4]

2.25. Acid Deposition Control

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

a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.
b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.

c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.

[45CSR§30-5.1.d.]

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

[45CSR§30-5.1.a.2.]
3.0 Facility-Wide Requirements

3.1. Limitations and Standards

3.1.1. Open burning. The open burning of refuse by any person is prohibited except as noted in 45CSR§6-3.1. [45CSR§6-3.1.]

3.1.2. Open burning exemptions. The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause or allow any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible. [45CSR§6-3.2.]

3.1.3. Asbestos. The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them. [40 C.F.R. §61.145(b) and 45CSR34]

3.1.4. Odor. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public. [45CSR§4-3.1 State-Enforceable only.]

3.1.5. Standby plan for reducing emissions. When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11. [45CSR§11-5.2]

3.1.6. Emission inventory. The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality. [W.Va. Code § 22-5-4(a)(14)]

3.1.7. Ozone-depleting substances. For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.
c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.

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

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

[40 C.F.R. 68]

3.1.9. **Minor Source of Hazardous Air Pollutants (HAP).** HAP emissions from the facility shall be less than 10 tons/year of any single HAP or 25 tons/year of any combination of HAPs. Compliance with this Section shall ensure that the facility is a minor HAP source.

[45CSR13, R13-2916, Condition 4.1.2.]

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

[45CSR§13-5.11.; 45CSR13, R13-2916, Conditions 4.1.3. and 11.1.2.]

3.1.11. Only those emission units/sources as identified in Table 1.0, with the exception of any de minimis sources as identified under Table 45-13B of 45CSR13, are authorized at the permitted facility.

[45CSR13, R13-2916, Condition 4.1.5.]

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

[45CSR§17-3.1.]

3.2. **Monitoring Requirements**

3.2.1. Reserved

3.3. **Testing Requirements**

3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:
a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary’s delegated authority and any established equivalency determination methods which are applicable.

b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit.

c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

d. The permittee shall submit a report of the results of the stack test within 60 days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:

   1. The permit or rule evaluated, with the citation number and language.
   2. The result of the test for each permit or rule condition.
   3. A statement of compliance or non-compliance with each permit or rule condition.

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

3.4. Recordkeeping Requirements

3.4.1. Monitoring information. The permittee shall keep records of monitoring information that include the following:

a. The date, place as defined in this permit and time of sampling or measurements;

b. The date(s) analyses were performed;

c. The company or entity that performed the analyses;

d. The analytical techniques or methods used;

e. The results of the analyses; and
f. The operating conditions existing at the time of sampling or measurement.

[45CSR§30-5.1.c.2.A.; 45CSR13, R13-2916, Condition 4.1.1.]

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

[45CSR§30-5.1.c.2.B.]

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

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

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

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

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

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

[45CSR13, R13-2916, Conditions 4.1.4. and 11.3.3.]

3.5. **Reporting Requirements**

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

[45CSR§§30-4.4. and 5.1.c.3.D.]

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

[45CSR§30-5.1.c.3.E.]

3.5.3. Except for the electronic submittal of the annual compliance certification and semi-annual monitoring reports to the DAQ and USEPA as required in 3.5.5 and 3.5.6 below, all notices, requests, demands, submissions
and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class or by private carrier with postage prepaid to the address(es), or submitted in electronic format by e-mail as set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

**DAQ:**

Director  
WVDEP  
Division of Air Quality  
601 57th Street SE  
Charleston, WV 25304

**US EPA:**

Associate Director  
Office of Air Enforcement and Compliance Assistance (3AP20)  
U. S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

**DAQ Compliance and Enforcement**

DEPAirQualityReports@wv.gov

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

3.5.4. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality.  
[45CSR§30-8.]

3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification. The annual certification shall be submitted in electronic format by e-mail to the following addresses:

**DAQ:**  
DEPAirQualityReports@wv.gov

**US EPA:**  
R3_APD_Permits@epa.gov

[45CSR§30-5.3.e.]

3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4. The semi-annual monitoring reports shall be submitted in electronic format by e-mail to the following address:
3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.

3.5.8. **Deviations.**

   a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:

      1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.

      2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.

      3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.

      4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

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

3.6. **Compliance Plan**

   3.6.1. None
3.7. Permit Shield

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

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

a. 40CFR60, Subparts D, Da, Db, and Dc—Steam Generating Units. These rules do not apply because there are no steam generating units (including line heaters) at this facility with a maximum design heat input capacity greater than 1.0 MMBtu/hr, which is well below the applicability thresholds in these rules specified in 40CFR§§60.40(a), 60.40Da(a), 60.40b(a), and 60.40c(a).

b. 40CFR60, Subparts K, Ka, and Kb—Storage Vessels. These rules do not apply because all tanks were constructed after July 23, 1989 and there are no tanks with capacity of 75 m³ (471.7 bbl or 19,813 gal) or greater, as specified in 40CFR§60.110b(a), that are used to store volatile organic liquids (VOL) at this subject facility.

c. 40CFR60, Subpart GG—Stationary Gas Turbines. This rule does not apply because there are no stationary gas turbines at this facility with a heat input at peak load equal to or greater than 10.7 gigajoules (10 million Btu) per hour, based on the lower heating value of the fuel fired. (40CFR§60.330).

d. 40CFR60, Subpart KKK—Leaks from Natural Gas Processing Plants. This rule does not apply because this facility is not a natural gas processing plant as defined in 40CFR§60.331.

e. 40CFR60, Subpart LLL—SO₂ Emissions from Onshore Natural Gas Processing Plants. This rule does not apply because there are no gas sweetening operations at this facility, as required in 40CFR§60.640(a).

f. 40CFR60, Subpart III—Stationary Compression Ignition Internal Combustion Engines. This rule does not apply because there are no stationary compression ignition engines at this facility.

g. 40CFR60, Subpart KKKK—Stationary Combustion Turbines. This rule does not apply because there are no stationary gas turbines at this facility with a heat input at peak load equal to or greater than 10.7 gigajoules (10 million Btu) per hour, based on the higher heating value of the fuel fired, as specified in 40CFR§60.4305(a).

h. 40CFR60, Subpart OOOOa—Crude Oil and Natural Gas Facilities. This rule does not apply because this facility was constructed prior to September 18, 2015, as specified in 40CFR§60.5360a.

i. 40CFR63, Subpart HHH—Natural Gas Transmission and Storage Facilities. This rule does not apply because this facility is not a natural gas transmission or storage facility transporting or storing natural gas prior to local distribution and is not a major source of HAP emissions, as specified in §63.1270(a).

j. 40CFR63, Subpart YYYY—Stationary Combustion Turbines. This rule does not apply because this facility is not a major source of HAP emissions and does not have a stationary combustion turbine, as specified in 40CFR§63.6085.

k. 40CFR63, Subpart DDDDD—Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters. This rule does not apply because this facility is not a major source of HAP emissions, as specified in 40CFR§63.7485.

l. 40CFR63, Subpart JJJJJ—Industrial, Commercial, and Institutional Boilers and Process Heaters Area Sources. This rule does not apply because all reboilers (EPRBL-1, EPRBL-2, and EPRBL-3) and heater treater burners (EPHT-1 and EPHT-2) at this facility are gas-fired, as exempted in 40CFR§63.11195(e).
4.0 Engines, Generator, Compressor Rod Packing [emission point ID(s): EPCE-1—EPCE-12, EPGEN-2, EUCRP]

4.1 Limitations and Standards

4.1.1. Maximum emissions from each of the 1,380 hp natural gas fired reciprocating engines equipped with oxidation catalyst, Caterpillar G3516B (EPCE-1 – EPCE-12) shall not exceed the following limits:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Maximum Hourly Emissions (lb/hr)</th>
<th>Maximum Annual Emissions (ton/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen Oxides</td>
<td>1.52</td>
<td>6.66</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>1.41</td>
<td>6.20</td>
</tr>
<tr>
<td>Volatile Organic Compounds (includes formaldehyde)</td>
<td>0.77</td>
<td>3.38</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>0.11</td>
<td>0.48</td>
</tr>
</tbody>
</table>

[45CSR13, R13-2916, Condition 5.1.1.]

4.1.2. Maximum emissions from the 605 hp natural gas fired generator equipped with NSCR, Baldor (EUGEN-2) shall not exceed the following limits:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Maximum Hourly Emissions (lb/hr)</th>
<th>Maximum Annual Emissions (ton/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen Oxides</td>
<td>1.33</td>
<td>5.84</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>2.67</td>
<td>11.68</td>
</tr>
<tr>
<td>Volatile Organic Compounds (includes formaldehyde)</td>
<td>1.05</td>
<td>4.60</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>0.12</td>
<td>0.51</td>
</tr>
</tbody>
</table>

[45CSR13, R13-2916, Condition 5.1.2.]

4.1.3. Maximum emissions from the compressor rod packing (EUCRP) shall not exceed the following limits:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Maximum Hourly Emissions (lb/hr)</th>
<th>Maximum Annual Emissions (ton/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volatile Organic Compounds</td>
<td>10.73</td>
<td>47.00</td>
</tr>
<tr>
<td>Total HAPs</td>
<td>0.35</td>
<td>1.52</td>
</tr>
</tbody>
</table>

[45CSR13, R13-2916, Condition 5.1.3.]

4.1.4. The emission limitations specified in permit conditions 4.1.1 – 4.1.3 shall apply at all times except during periods of start-up and shut-down provided that the duration of these periods does not exceed 30 minutes per occurrence. The permittee shall operate the engines in a manner consistent with good air pollution control...
practices for minimizing emissions at all times, including periods of start-up and shut-down. The emissions from start-up and shut-down shall be included in the twelve (12) month rolling total of emissions. The permittee shall comply with all applicable start-up and shut-down requirements in accordance with 40 CFR Part 60, Subpart IIIJ and 40 CFR Part 63, Subpart ZZZZ.

[45CSR13, R13-2916, Condition 5.1.4.]

4.1.5. Requirements for Use of Oxidation Catalyst Reduction Devices

a. Lean-burn natural gas compressor engines (EUCE-1 – EUCE-12) equipped with oxidation catalyst air pollution control devices shall be fitted with a closed-loop automatic air/fuel ratio feedback controller to ensure emissions of regulated pollutants do not exceed the emission limit listed in permit condition 4.1.1 for any engine/oxidation catalyst combination under varying load. The closed-loop, automatic air/fuel ratio controller shall control a fuel metering valve to ensure a lean-rich mixture.

b. For natural gas compressor engines (EUCE-1 – EUCE-12), the permittee shall monitor the temperature to the inlet of the catalyst and in accordance with manufacturer’s specifications; a high temperature alarm shall shut off the engine before thermal deactivation of the catalyst occurs. If the engine shuts off due to high temperature, the permittee shall also check for thermal deactivation of the catalyst before normal operations are resumed.

c. Rich-burn engine (EUGEN-2) equipped with non-selective catalytic reduction (NSCR) air pollution control devices shall be fitted with a closed-loop, automatic air/fuel ratio controller to ensure emissions of regulated pollutants do not exceed the emission limit listed in the General Permit Registration for any engine/NSCR combination under varying load. The closed-loop, automatic air/fuel ratio controller shall control a fuel metering valve to ensure a fuel-rich mixture and a resultant exhaust oxygen content of less than or equal to 2%.

d. The permittee shall follow a written operation and maintenance plan that provides the periodic and annual maintenance requirements.

e. No person shall knowingly:

1. Remove or render inoperative any air pollution or auxiliary air pollution control device installed subject to the requirements of this permit;
2. Install any part or component when the principal effect of the part or component is to bypass, defeat or render inoperative any air pollution control device or auxiliary air pollution control device installed subject to the requirements of this permit; or
3. Cause or allow engine exhaust gases to bypass any catalytic reduction device.

[45CSR13, R13-2916, Condition 5.1.5.]

4.2. Monitoring Requirements

4.2.1. Oxidation Catalyst Control Devices

a. The permittee shall regularly inspect, properly maintain and/or replace catalytic reduction devices and auxiliary air pollution control devices to ensure functional and effective operation of the engine’s physical and operational design. The permittee shall ensure proper operation, maintenance and performance of catalytic reduction devices and auxiliary air pollution control devices by:

1. Maintaining proper operation of the automatic air/fuel ratio controller or automatic feedback controller.
2. Following operating and maintenance recommendations of the catalyst element manufacturer.

[45CSR13, R13-2916, Condition 5.2.1.]

4.3 Testing Requirements

4.3.1. See Facility-Wide Testing Requirements Section 3.3 and Testing Requirements of Sections 5.3, 6.2, and 6.3.

4.4 Recordkeeping Requirements

4.4.1. To demonstrate compliance with section 4.1.5 the permittee shall maintain records of all catalytic reduction device maintenance. Said records shall be maintained on site or in a readily accessible off-site location maintained by the permittee for a period of five (5) years. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official.

[45CSR13, R13-2916, Condition 5.4.1.]

4.5 Reporting Requirements

4.5.1. See Facility-Wide Reporting Requirements Section 3.5 and Reporting Requirements of Sections 5.5 and 6.5.

4.6. Compliance Plan

4.6.1. None
5.0  40CFR60, Subpart JJJJ Requirements [emission point ID(s): EPCE-1—EPCE-12, EPGEN-2]

5.1.  Limitations and Standards

5.1.1.  Stationary RICE subject to Regulation under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of 40CFR63, Subpart ZZZZ by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40CFR63, Subpart ZZZZ.

The permittee meets the criteria of paragraph (c)(1), which is for a new or reconstructed stationary RICE located at an area source. The permittee must meet the requirements of 40CFR63, Subpart ZZZZ by meeting the requirements of 40 CFR part 60 subpart JJJJ.

[45CSR34; 40 C.F.R. § 63.6590(c); 45CSR13, R13-2916, Condition 8.1.2.]

5.1.2.  Owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards in Table 1 to this subpart for their stationary SI ICE. For owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 100 HP (except gasoline and rich burn engines that use LPG) manufactured prior to January 1, 2011 that were certified to the certification emission standards in 40 CFR part 1048 applicable to engines that are not severe duty engines, if such stationary SI ICE was certified to a carbon monoxide (CO) standard above the standard in Table 1 to this subpart, then the owners and operators may meet the CO certification (not field testing) standard for which the engine was certified.

Note: compliance with the NOx, CO, and VOC emission limits in Table 1 to this subpart is achieved by complying with the more stringent emission limits in conditions 4.1.1. and 4.1.2.

[45CSR16; 40CFR§60.4233(e); 45CSR13, R13-2916, Condition 6.2.1.]

5.1.3.  Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in §60.4233 over the entire life of the engine.

[45CSR16; 40CFR§60.4234; 45CSR13, R13-2916, Condition 6.2.2.]

5.1.4.  After July 1, 2009, owners and operators may not install stationary SI ICE with a maximum engine power of greater than or equal to 500 HP that do not meet the applicable requirements in §60.4233, except that lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP that do not meet the applicable requirements in §60.4233 may not be installed after January 1, 2010.

[45CSR16; 40CFR§60.4236(b); 45CSR13, R13-2916, Condition 6.3.1.]

5.1.5.  The requirements of this section do not apply to owners and operators of stationary SI ICE that have been modified or reconstructed, and they do not apply to engines that were removed from one existing location and reinstalled at a new location.

[45CSR16; 40CFR§60.4236(e); 45CSR13, R13-2916, Condition 6.3.2.]

5.2.  Monitoring Requirements for Owners and Operators

5.2.1.  If you are an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in §60.4233(d) or (e), you must demonstrate compliance as follows:

a.  Purchasing an engine certified according to procedures specified in 40CFR60, Subpart JJJJ, for the same model year and demonstrating compliance according to the following requirements:

---

West Virginia Department of Environmental Protection  •  Division of Air Quality
Approved: September 18, 2018 • Modified: N/A
1. If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if you are an owner or operator. You must also meet the requirements as specified in 40 CFR part 1068, subparts A through D, as they apply to you. If you adjust engine settings according to and consistent with the manufacturer's instructions, your stationary SI internal combustion engine will not be considered out of compliance.

2. If you do not operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, your engine will be considered a non-certified engine, and you must demonstrate compliance according to:

i. If you are an owner or operator of a stationary SI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

[45CSR16; 40CFR§§60.4243(a)(1), (a)(2)(iii), and (b)(1); 45CSR13, R13-2916, Condition 6.4.1.]

5.2.2. Owners and operators of stationary SI natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the owners and operators are required to conduct a performance test to demonstrate compliance with the emission standards of §60.4233.

[45CSR16; 40CFR§60.4243(e); 45CSR13, R13-2619, Condition 6.4.2.]

5.2.3. It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

[45CSR16; 40CFR§60.4243(g); 45CSR13, R13-2619, Condition 6.4.3.]

5.3. Testing Requirements for Owners and Operators

5.3.1. Owners and operators of stationary SI ICE who conduct performance tests must follow the procedures in paragraphs (a) through (f) of this section.

a. Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in §60.8 and under the specific conditions that are specified by Table 2 to this subpart. [45CSR16; 40CFR§60.4244(a)]

b. You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §60.8(c). If your stationary SI internal combustion engine is non-operational, you do not need to startup the engine solely to conduct a performance test; however, you must conduct the performance test immediately upon startup of the engine. [45CSR16; 40CFR§60.4244(b)]

c. You must conduct three separate test runs for each performance test required in this section, as specified in §60.8(f). Each test run must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour. [45CSR16; 40CFR§60.4244(e)]
d. To determine compliance with the NO\textsubscript{X} mass per unit output emission limitation, convert the concentration of NO\textsubscript{X} in the engine exhaust using Equation 1 of this section:

\[
ER = \frac{C_{d} \times 1.912 \times 10^{-3} \times Q \times T}{\text{HP} - \text{hr}} \quad (\text{Eq. 1})
\]

Where:

\( ER = \) Emission rate of NO\textsubscript{X} in g/HP-hr.

\( C_{d} = \) Measured NO\textsubscript{X} concentration in parts per million by volume (ppmv).

\( 1.912 \times 10^{-3} = \) Conversion constant for ppm NO\textsubscript{X} to grams per standard cubic meter at 20 degrees Celsius.

\( Q = \) Stack gas volumetric flow rate, in standard cubic meter per hour, dry basis.

\( T = \) Time of test run, in hours.

\( \text{HP-hr} = \) Brake work of the engine, horsepower-hour (HP-hr).

[45CSR16; 40CFR\$60.4244(d)]

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

\[
ER = \frac{C_{d} \times 1.164 \times 10^{-3} \times Q \times T}{\text{HP} - \text{hr}} \quad (\text{Eq. 2})
\]

Where:

\( ER = \) Emission rate of CO in g/HP-hr.

\( C_{d} = \) Measured CO concentration in ppmv.

\( 1.164 \times 10^{-3} = \) Conversion constant for ppm CO to grams per standard cubic meter at 20 degrees Celsius.

\( Q = \) Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

\( T = \) Time of test run, in hours.

\( \text{HP-hr} = \) Brake work of the engine, in HP-hr.

[45CSR16; 40CFR\$60.4244(e)]

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

\[
ER = \frac{C_{d} \times 1.833 \times 10^{-3} \times Q \times T}{\text{HP} - \text{hr}} \quad (\text{Eq. 3})
\]
Where:

ER = Emission rate of VOC in g/HP-hr.

C_\text{d} = VOC concentration measured as propane in ppmv.

1.833 \times 10^{-3} = Conversion constant for ppm VOC measured as propane, to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

[45CSR16; 40CFR§60.4244(f)]

g. If the owner/operator chooses to measure VOC emissions using either Method 18 of 40CFR60, appendix A, or Method 320 of 40 CFR part 63, appendix A, then it has the option of correcting the measured VOC emissions to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 and Method 320 can be corrected for response factor differences using Equations 4 and 5 of this section. The corrected VOC concentration can then be placed on a propane basis using Equation 6 of this section.

\[ RF_i = \frac{C_{\text{M}}}{{C_{\text{Al}}}} \quad (\text{Eq. 4}) \]

Where:

\( RF_i \) = Response factor of compound \( i \) when measured with EPA Method 25A.

\( C_{\text{M}} \) = Measured concentration of compound \( i \) in ppmv as carbon.

\( C_{\text{Al}} \) = True concentration of compound \( i \) in ppmv as carbon.

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

Where:

\( C_{\text{corr}} \) = Concentration of compound \( i \) corrected to the value that would have been measured by EPA Method 25A, ppmv as carbon.

\( C_{\text{meas}} \) = Concentration of compound \( i \) measured by EPA Method 320, ppmv as carbon.

\[ C_{\text{req}} = 0.6098 \times C_{\text{meas}} \quad (\text{Eq. 6}) \]

Where:

\( C_{\text{req}} \) = Concentration of compound \( i \) in mg of propane equivalent per DSCM.

[45CSR16; 40CFR§60.4244(g)]

[45CSR13, R13-2916, Condition 6.5.1.]
5.4. Recordkeeping Requirements

5.4.1. Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements.

a. Owners and operators of all stationary SI ICE must keep records of the information in paragraphs (a)(1) through (4) of this section.

1. All notifications submitted to comply with this subpart and all documentation supporting any notification.
2. Maintenance conducted on the engine.
3. If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90 and 1048.
4. If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards.

[45CSR16; 40CFR§60.4245(a); 45CSR13, R13-2916, Condition 6.6.1.a.]

5.5. Reporting Requirements

5.5.1. Owners and operators of stationary SI ICE greater than or equal to 500 HP that have not been certified by an engine manufacturer to meet the emission standards in §60.4231 must submit an initial notification as required in §60.7(a)(1). The notification must include the information in paragraphs (c)(1) through (5) of this section.

1. Name and address of the owner or operator;
2. The address of the affected source;
3. Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
4. Emission control equipment; and
5. Fuel used.

[45CSR16; 40CFR§60.4245(c); 45CSR13, R13-2916, Condition 6.6.1.c.]

5.5.2. Owners and operators of stationary SI ICE that are subject to performance testing must submit a copy of each performance test as conducted in §60.4244 within 60 days after the test has been completed. [45CSR16; 40CFR§60.4245(d); 45CSR13, R13-2916, Condition 6.6.1.d.]
6.0 40CFR60, Subpart OOOO Requirements [emission point ID(s): EPCE-1—EPCE-12, Pneumatic Controllers]

6.1. Limitations and Standards

6.1.1. You must comply with the standards in paragraphs (a) through (d) of this section for each reciprocating compressor affected facility.

a. You must replace the reciprocating compressor rod packing according to either paragraph (a)(1) or (2) of this section.

1. Before the compressor has operated for 26,000 hours. The number of hours of operation must be continuously monitored beginning upon initial startup of your reciprocating compressor affected facility, or October 15, 2012, or the date of the most recent reciprocating compressor rod packing replacement, whichever is later.

2. Prior to 36 months from the date of the most recent rod packing replacement, or 36 months from the date of startup for a new reciprocating compressor for which the rod packing has not yet been replaced.

b. You must demonstrate initial compliance with standards that apply to reciprocating compressor affected facilities as required by § 60.5410.

c. You must demonstrate continuous compliance with standards that apply to reciprocating compressor affected facilities as required by § 60.5415.

d. You must perform the required notification, recordkeeping, and reporting as required by § 60.5420.

[45CSR16; 40CFR§60.5385; 45CSR13, R13-2916, Condition 7.1.1.; Reciprocating Compressor Engines]

6.1.2. What standards apply to pneumatic controller affected facilities?

For each pneumatic controller affected facility you must comply with the VOC standards, based on natural gas as a surrogate for VOC, in paragraph (c)(1) of 40CFR§60.5390, as applicable. Pneumatic controllers meeting the conditions in paragraph (a) of this section are exempt from this requirement.

a. The requirements of paragraph (b)(1) or (c)(1) of 40CFR§60.5390 are not required if you determine that the use of a pneumatic controller affected facility with a bleed rate greater than 6 standard cubic feet per hour is required based on functional needs, including but not limited to response time, safety and positive actuation.

b. (1) Each pneumatic controller affected facility constructed, modified or reconstructed on or after October 15, 2015 at a location between the wellhead and a natural gas processing plant must have a bleed rate less than or equal to 6 standard cubic feet per hour.

(2) Each pneumatic controller affected facility constructed, modified, or reconstructed on or after October 15, 2013 at a location between the wellhead and a natural gas processing plant must be tagged with the month and year of installation, reconstruction or modification, and identification information that allows traceability to the records for that controller as required in § 60.5420(c)(4)(iii).

c. You must demonstrate initial compliance with standards that apply to pneumatic controller affected facilities as required by § 60.5410.
d. You must demonstrate continuous compliance with standards that apply to pneumatic controller affected facilities as required by § 60.5415.

e. You must perform the required notification, recordkeeping, and reporting as required by § 60.5420, except that you are not required to submit the notifications specified in § 60.5420(a).

[45CSR16; 40CFR§§60.5390(a), (e), (d), (e), (f); 45CSR13, R13-2916, Condition 7.1.2.; Pneumatic Controllers]

6.2. Initial Compliance Demonstration

6.2.1. You must determine initial compliance with the standards for each affected facility using the requirements in paragraph (c) of this section. The initial compliance period begins on October 15, 2012 or upon initial startup, whichever is later, and ends no later than one year after the initial startup date for your affected facility or no later than one year after October 15, 2012. The initial compliance period may be less than one full year.

a. To achieve initial compliance with the standards for each reciprocating compressor affected facility you must comply with paragraphs (e)(1) through (4) of 40CFR§60.5410.

1. During the initial compliance period, you must continuously monitor the number of hours of operation or track the number of months since the last rod packing replacement.

2. You must submit the initial annual report for your reciprocating compressor as required in § 60.5420(b).

3. You must maintain the records as specified in § 60.5420(c)(3) for each reciprocating compressor affected facility.

[45CSR16; 40CFR§60.5410(c), Reciprocating Compressor Engines]

b. To achieve initial compliance with emission standards for your pneumatic controller affected facility you must comply with the requirements specified in paragraphs (d)(1, 3, 4, 5, 6) of 40CFR§60.5410.

1. If applicable, you have demonstrated by maintaining records as specified in § 60.5420(c)(4)(ii) of your determination that the use of a pneumatic controller affected facility with a bleed rate greater than 6 standard cubic feet of gas per hour is required as specified in § 60.5390(a).

2. You own or operate a pneumatic controller affected facility located between the wellhead and a natural gas processing plant and the manufacturer's design specifications indicate that the controller emits less than or equal to 6 standard cubic feet of gas per hour.

3. You must tag each new pneumatic controller affected facility according to the requirements of § 60.5390(b)(2).

4. You must include the information in paragraph (d)(1) of 40CFR§60.5410 and a listing of the pneumatic controller affected facilities specified in paragraphs (d)(2) and (3) of 40CFR§60.5410 in the initial annual report submitted for your pneumatic controller affected facilities constructed, modified or reconstructed during the period covered by the annual report according to the requirements of § 60.5420(b).
5. You must maintain the records as specified in § 60.5420(c)(4) for each pneumatic controller affected facility.

[45CSR16; 40CFR§60.5410(d), Pneumatic Controllers]

[45CSR13, R13-2916, Condition 7.2.1.]

6.3. Continuous Compliance Demonstration

6.3.1. For each reciprocating compressor affected facility, you must demonstrate continuous compliance according to paragraphs (1) through (3) of 40CFR§60.5415.

1. You must continuously monitor the number of hours of operation for each reciprocating compressor affected facility or track the number of months since initial startup, or October 15, 2012, or the date of the most recent reciprocating compressor rod packing replacement, whichever is later.

2. You must submit the annual report as required in § 60.5420(b) and maintain records as required in § 60.5420(c)(3).

3. You must replace the reciprocating compressor rod packing before the total number of hours of operation reaches 26,000 hours or the number of months since the most recent rod packing replacement reaches 36 months.

[45CSR16; 40CFR§§60.5415(c)(1)–(3); 45CSR13, R13-2916, Condition 7.3.1.; Reciprocating Compressor Engines]

6.3.2. For each pneumatic controller affected facility, you must demonstrate continuous compliance according to paragraphs (1) through (3) of this section.

1. You must continuously operate the pneumatic controllers as required in § 60.5390(a), (b), or (c).

2. You must submit the annual report as required in § 60.5420(b).

3. You must maintain records as required in § 60.5420(c)(4).

[45CSR16; 40CFR§60.5415(d); 45CSR13, R13-2916, Condition 7.3.2.; Pneumatic Controllers]

6.4. Recordkeeping Requirements

6.4.1. Recordkeeping requirements. You must maintain the records identified as specified in § 60.7(f) and in paragraph (c)(3) and (4) of 40CFR§60.5420. All records must be maintained for at least 5 years.

a. For each reciprocating compressors affected facility, you must maintain the records in paragraphs (c)(3)(i) through (iii) of 40CFR§60.5420.

i. Records of the cumulative number of hours of operation or number of months since initial startup or October 15, 2012, or the previous replacement of the reciprocating compressor rod packing, whichever is later.

ii. Records of the date and time of each reciprocating compressor rod packing replacement.
iii. Records of deviations in cases where the reciprocating compressor was not operated in compliance with the requirements specified in § 60.5385.

b. For each pneumatic controller affected facility, you must maintain the records identified in paragraphs (c)(4)(i) through (v) of 40CFR§60.5420.

i. Records of the date, location and manufacturer specifications for each pneumatic controller constructed, modified or reconstructed.

ii. Records of the demonstration that the use of pneumatic controller affected facilities with a natural gas bleed rate greater than 6 standard cubic feet per hour are required and the reasons why.

iii. If the pneumatic controller is not located at a natural gas processing plant, records of the manufacturer's specifications indicating that the controller is designed such that natural gas bleed rate is less than or equal to 6 standard cubic feet per hour.

iv. If the pneumatic controller is located at a natural gas processing plant, records of the documentation that the natural gas bleed rate is zero.

v. Records of deviations in cases where the pneumatic controller was not operated in compliance with the requirements specified in § 60.5390.

[45CSR16; 40CFR§§60.5420(c)(3) and (c)(4); 45CSR13, R13-2916, Condition 7.4.3.]

6.5. Reporting Requirements

6.5.1. You must submit the notifications required in § 60.7(a)(1) and (4), and according to paragraphs (a)(1) and (2) of this section, if you own or operate one or more of the affected facilities specified in § 60.5365 that was constructed, modified, or reconstructed during the reporting period.

[45CSR16; 40CFR§60.5420(a); 45CSR13, R13-2916, Condition 7.4.1.]

6.5.2. Reporting requirements. You must submit annual reports containing the information specified in paragraphs (b)(1), (b)(4), and (b)(5) of 40CFR§60.5420 to the Administrator. The initial annual report is due no later than 90 days after the end of the initial compliance period as determined according to § 60.5410. Subsequent annual reports are due on the same date each year as the initial annual report. If you own or operate more than one affected facility, you may submit one report for multiple affected facilities provided the report contains all of the information required as specified in paragraphs (b)(1) through (6) of 40CFR§60.5420. Annual reports may coincide with title V reports as long as all the required elements of the annual report are included. You may arrange with the Administrator a common schedule on which reports required by this part may be submitted as long as the schedule does not extend the reporting period.

1. The general information specified in paragraphs (b)(1)(i) through (iv) of 40CFR§60.5420

i. The company name and address of the affected facility.

ii. An identification of each affected facility being included in the annual report.

iii. Beginning and ending dates of the reporting period.

iv. A certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
2. For each reciprocating compressor affected facility, the information specified in paragraphs (b)(4)(i) through (ii) of 40CFR§60.5420.
   
i. The cumulative number of hours of operation or the number of months since initial startup, since October 15, 2012, or since the previous reciprocating compressor rod packing replacement, whichever is later.
   
ii. Records of deviations specified in paragraph (c)(3)(iii) of 40CFR§60.5420 that occurred during the reporting period.

3. For each pneumatic controller affected facility, the information specified in paragraphs (b)(5)(i) through (iii) of 40CFR§60.5420.
   
i. An identification of each pneumatic controller constructed, modified or reconstructed during the reporting period, including the identification information specified in § 60.5390(c)(2).
   
ii. If applicable, documentation that the use of pneumatic controller affected facilities with a natural gas bleed rate greater than 6 standard cubic feet per hour are required and the reasons why.
   
iii. Records of deviations specified in paragraph (c)(4)(v) of 40CFR§60.5420 that occurred during the reporting period.

[45CSR16; 40CFR§§60.5420(b)(1), (4), (5); 45CSR13, R13-2916, Condition 7.4.2.]

6.6. Compliance Plan

6.6.1. None
7.0 Hazardous Air Pollutant Requirements Natural Gas Dehydration Units Not Subject to MACT Standards and being controlled by Condenser and Recycling the Dehydration Unit Back to Flame Zone of Reboiler [emission point ID(s): (EUDHY-1, EUDHY-2, & EUDHY-3)]

7.1. Limitations and Standards

7.1.1. Maximum Throughput Limitation. To demonstrate compliance with permit condition 7.1.4, the maximum wet natural gas throughput to the glycol dehydration unit/still columns shall not exceed the following:

<table>
<thead>
<tr>
<th>Emission Point ID</th>
<th>Maximum Wet Natural Gas Throughput</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPSTL-1</td>
<td>55.0 mmscf/day</td>
</tr>
<tr>
<td>EPSTL-2</td>
<td>55.0 mmscf/day</td>
</tr>
<tr>
<td>EPSTL-3</td>
<td>55.0 mmscf/day</td>
</tr>
</tbody>
</table>

[45CSR13, R13-2916, Condition 9.1.1.]

7.1.2. The still vent of each dehydration unit shall be vented to a dedicated BTEX Condenser through a closed vent system. The non-condensable gas shall be vented back to the respective reboiler though a closed vent system. The control device(s) shall be operated according to manufacturer's specifications and shall be properly maintained in a manner which prevents the unit from freezing.

[45CSR13, R13-2916, Condition 9.1.2.]

7.1.3. Each dehydration unit (EUDHY-1 - EUDHY-3) shall be designed and operated in accordance with the following:

a. The non-condensable gas from the BTEX Condenser shall be routed to the reboiler and combusted.

b. The flash tank off-gases from each flash tank shall be routed to the pilot light for each burner of the reboiler, to the burner of the reboiler, and/or flash gas header to be re-injected in the suction line for recompression. The routing of the flash tank off-gases shall be done through a closed vent system.

c. The pilot light for each reboiler burner shall be lit at all times when the dehydration unit is in operation.

d. The maximum flow rate of glycol through each Dehydration Unit (EUDHY-1-3) shall not exceed 22 gpm. The permittee may install two Kimray 4501PA (max 7.5 gpm for each pump) glycol pumps piped in parallel and one electric driven pump with a name plate rating of no greater than 22 gpm. This dehydration unit shall only be operated with the two Kimray pumps or one electric pump in service.

e. The maximum temperature of the outlet stream from the BTEX Condenser shall not be above 120°F on a 3-hour average basis.

[45CSR13, R13-2916, Condition 9.1.3.]
7.1.4. Maximum emissions from each emission point EPSTL-1-EPSTL-3 (EUDHY-1-EUDHY-3 still vent) shall not exceed the following limits:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Maximum Hourly Emissions (lb/hr)</th>
<th>Maximum Annual Emissions (ton/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volatile Organic Compounds</td>
<td>1.89</td>
<td>8.29</td>
</tr>
<tr>
<td>Benzene</td>
<td>0.07</td>
<td>0.29</td>
</tr>
<tr>
<td>Total HAPs</td>
<td>0.30</td>
<td>1.34</td>
</tr>
</tbody>
</table>

[45CSR13, R13-2916, Condition 9.1.4.]

7.2. Monitoring Requirements

7.2.1. The permittee shall monitor the throughput of wet natural gas fed to the dehydration system on a monthly basis for the glycol dehydration units (EUDHY-1-EUDHY-3). Records of such monitoring shall be maintained in accordance with permit condition 3.4.2.
[45CSR13, R13-2916, Condition 9.2.1.]

7.2.2. The permittee shall monitor the temperature of the outlet stream of each BTEX Condenser on a daily basis for the purpose of demonstrating compliance with permit condition 7.1.3.a. The permittee may use a portable temperature measuring device. Only one measurement is required to be measured per day if the measured temperature is at or less than 120°F. For readings above 120°F, the permittee shall take additional measurements in equal time intervals to develop a 3-hour average. Records of such monitoring shall be maintained in accordance with permit condition 3.4.2, and include the time and date of measurements.
[45CSR13, R13-2916, Condition 9.2.2.]

7.3. Testing Requirements

7.3.1. For the purpose of demonstrating compliance with permit conditions 3.1.9 and 7.1.4, the permittee shall maintain a record of all potential to emit (PTE) HAP calculations for the entire affected facility. These records shall include the natural gas compressor engines and ancillary equipment.
[45CSR13, R13-2916, Condition 9.3.1.]

7.3.2. In order to demonstrate compliance with the minor source status of hazardous air pollutants required by 3.1.9, upon request of the Director, the permittee shall demonstrate compliance with the HAP emissions thresholds using GLYCalc Version 3.0 or higher. The permittee shall sample in accordance with GPA Method 2166 and analyze the samples utilizing the extended GPA Method 2286 as specified in the GRI-GLYCalc V4 Technical Reference User Manual and Handbook.
[45CSR13, R13-2916, Condition 9.3.2.]

7.3.3. Determination of glycol dehydration benzene emissions. In order to demonstrate that the benzene emissions are less than 1 tpy, the permittee shall determine the actual average benzene emissions using the procedure in the paragraph below. Emissions shall be determined either uncontrolled, or with federally enforceable controls in place.

The owner or operator 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).

[45CSR34; 40CFR§63.772(b)(2)(i); 45CSR13, R13-2916, Condition 9.3.3.]

7.4. Recordkeeping Requirements

7.4.1. The permittee shall document and maintain the corresponding records specified by the on-going monitoring requirements of 7.2 and testing requirements of 7.3.

[45CSR13, R13-2916, Condition 9.4.1.]

7.4.2. For the purpose of demonstrating compliance with the minor source status of hazardous air pollutants required by permit condition 3.1.9, the permittee shall maintain a record of all potential to emit (PTE) HAP calculations for the entire affected facility. These records shall include the natural gas compressor engines and ancillary equipment.

[45CSR13, R13-2916, Condition 9.4.2.]

7.4.3. The permittee shall maintain a record of the dry natural gas throughput through the dehydration system to demonstrate compliance with permit condition 7.1.1.

[45CSR13, R13-2916, Condition 9.4.3.]

7.4.4. To demonstrate that the permittee is exempt from the requirements of § 63.764 (d) if the actual average emissions of benzene from the glycol dehydration unit process vent to the atmosphere is less than 0.90 megagram per year (1 tpy), as determined by the procedures specified in § 63.772(b)(2) and permit condition 7.3.3 of this permit, records of the actual average benzene emissions (in terms of benzene emissions per year) shall be maintained.

[45CSR34; 40CFR§63.764(e) and §63.774(d)(1)(ii); 45CSR13, R13-2916, Condition 9.4.4.]

7.4.5. All records required under Section 7.4 shall be maintained on site or in a readily accessible off-site location maintained by the permittee for a period of five (5) years. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official.

[45CSR13, R13-2916, Condition 9.4.5.]

7.5. Reporting Requirements

7.5.1. If permittee is required by the Director to demonstrate compliance with permit condition 7.3.3, then the permittee shall submit a testing protocol at least thirty (30) days prior to testing and shall submit a notification of the testing date at least fifteen (15) days prior to testing. The permittee shall submit the testing results within sixty (60) days of testing and provide all supporting calculations and testing data.

[45CSR13, R13-2916, Condition 9.5.1.]

7.6. Compliance Plan

7.6.1. None
8.0  Reboilers and Heat Treaters [emission unit ID(s): EURBL-1, EURBL-2, EURBL-3, EUHT-1, EUHT-2]

8.1  Limitations and Standards

8.1.1.  Maximum Design Heat Input. The maximum design heat input (MDHI) shall not exceed the following:

<table>
<thead>
<tr>
<th>Emission Unit ID#</th>
<th>Emission Unit Description</th>
<th>MDHI (MMBTU/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EURBL-1</td>
<td>Glycol Dehydration Reboiler</td>
<td>1.0</td>
</tr>
<tr>
<td>EURBL-2</td>
<td>Glycol Dehydration Reboiler</td>
<td>1.0</td>
</tr>
<tr>
<td>EURBL-3</td>
<td>Glycol Dehydration Reboiler</td>
<td>1.0</td>
</tr>
<tr>
<td>EUHT-1</td>
<td>Heater Treater</td>
<td>0.5</td>
</tr>
<tr>
<td>EUHT-2</td>
<td>Heater Treater</td>
<td>0.5</td>
</tr>
</tbody>
</table>

[45CSR13, R13-2916, Condition 10.1.1.]

8.1.2.  No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average. [45CSR§2-3.1.; 45CSR13, R13-2916, Condition 10.1.2.]

8.2  Monitoring Requirements

8.2.1.  At such reasonable times as the Secretary may designate, the permittee shall conduct Method 9 emission observations for the purpose of demonstrating compliance with permit condition 8.1.2. Method 9 shall be conducted in accordance with 40 CFR 60 Appendix A. [45CSR13, R13-2916, Condition 10.2.1.]

8.3  Testing Requirements

8.3.1.  Compliance with the visible emission requirements of permit condition 8.1.2 shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 or by using measurements from continuous opacity monitoring systems approved by the Director. The Director may require the installation, calibration, maintenance and operation of continuous opacity monitoring systems and may establish policies for the evaluation of continuous opacity monitoring results and the determination of compliance with the visible emission requirements of permit condition 8.1.2. Continuous opacity monitors shall not be required on fuel burning units which employ wet scrubbing systems for emission control. [45CSR§2-3.2.; 45CSR13, R13-2916, Condition 10.3.1.]

8.4  Recordkeeping Requirements

8.4.1.  The permittee shall maintain records of all monitoring data required by permit condition 8.2.1 documenting the date and time of each visible emission check, the emission point or equipment/source identification number, the name or means of identification of the observer, the results of the check(s), whether the visible emissions are normal for the process, and, if applicable, all corrective measures taken or planned. The permittee shall also record the general weather conditions (i.e., sunny, approximately 80°F, 6 - 10 mph NE wind) during the visual emission check(s). Should a visible emission observation be required to be performed per the requirements specified in Method 9, the data records of each observation shall be maintained per the requirements of Method 9. [45CSR13, R13-2916, Condition 10.4.1.]
8.5. Reporting Requirements

8.5.1. Any deviation(s) from the allowable visible emission requirement for any emission source discovered during observations using 40CFR Part 60, Appendix A, Method 9 or 22 shall be reported in writing to the Director of the Division of Air Quality as soon as practicable, but in any case within ten (10) calendar days of the occurrence and shall include at least the following information: the results of the visible determination of opacity of emissions, the cause or suspected cause of the violation(s), and any corrective measures taken or planned.

[45CSR13, R13-2916, Condition 10.5.1.]

8.6. Compliance Plan

8.6.1. None
9.0  Storage Tanks [emission point ID(s): EPTK-1—EPTK-8, EPWTK-1, EPWTK-2]

9.1.  Limitations and Standards

9.1.1.  The permittee shall route all VOC and HAP emissions from the stabilized condensate storage tanks (TK-1 – TK-8) to a vapor recovery system prior to release to the atmosphere. The vapor recovery system shall be designed to achieve a minimum guaranteed control efficiency of 95% for volatile organic compound (VOC) and hazardous air pollutants (HAP) emissions. Emissions from these tanks will be collected and compressed by the vapor recovery system whereby the vapors are sufficiently compressed to be introduced into the inlet gas line and processed with the inlet gas.

[45CSR13, R13-2916, Condition 11.1.1.]

9.1.2.  The maximum annual throughput of product to the storage tanks shall not exceed the following:

<table>
<thead>
<tr>
<th>Storage Tank ID</th>
<th>Storage Tank Size (bbl)</th>
<th>Product Stored</th>
<th>Maximum Annual Throughput (gal/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TK-1 – TK-8</td>
<td>400 each</td>
<td>Stabilized Condensate</td>
<td>1,250,000 (each)</td>
</tr>
<tr>
<td>WTK-1 – WTK-2</td>
<td>400 each</td>
<td>Produced Water</td>
<td>770,000 (each)</td>
</tr>
</tbody>
</table>

[45CSR13, R13-2916, Condition 11.1.3.]

9.1.3.  Emissions from the Storage Tanks (TK-1 – TK-8) that are recovered and routed to the vapor recovery system shall be designed and operated as specified in the paragraphs (a) through (c).

a.  The cover and all openings on the cover (e.g., access hatches, sampling ports, pressure relief valves and gauge wells) shall form a continuous impermeable barrier over the entire surface area of the liquid in the storage vessel.

b.  Each cover opening shall be secured in a closed, sealed position (e.g., covered by a gasketed lid or cap) whenever material is in the unit on which the cover is installed except during those times when it is necessary to use an opening as follows:

   i.  To add material to, or remove material from the unit (this includes openings necessary to equalize or balance the internal pressure of the unit following changes in the level of the material in the unit);

   ii. To inspect or sample the material in the unit;

   iii. To inspect, maintain, repair, or replace equipment located inside the unit; or

   iv.  To vent liquids, gases, or fumes from the unit through a closed-vent system designed and operated in accordance with the requirements of permit condition 9.1.4 to a control device.

   c.  Each Storage Tank (TK-1 – TK-8) thief hatch shall be weighted and properly seated. You must select gasket material for the hatch based on composition of the fluid in the storage vessel and weather conditions.

[45CSR§13-5.11; 45CSR13, R13-2916, Condition 11.1.4.]

9.1.4.  The facility shall comply with the closed vent system requirements for the Storage Tanks (TK-1 – TK-8) as noted below.

a.  You must design the closed vent system to route all gases, vapors, and fumes emitted from the material in the Storage Tanks (TK-1 – TK-8) to the vapor recovery system.
b. You must design and operate a closed vent system with no detectable emissions, as determined using olfactory, visual and auditory inspections.

c. You must meet the requirements specified in paragraphs (i) and (ii) of this section if the closed vent system contains one or more bypass devices that could be used to divert all or a portion of the gases, vapors, or fumes from entering the control device or to a process.

i. Except as provided in paragraph (ii) of this section, you must comply with either paragraph (A) or (B) of this section for each bypass device.

A. You must properly install, calibrate, maintain, and operate a flow indicator at the inlet to the bypass device that could divert the stream away from the control device or process to the atmosphere that sounds an alarm, or initiates notification via remote alarm to the nearest field office, when the bypass device is open such that the stream is being, or could be diverted away from the control device or process to the atmosphere.

B. You must secure the bypass device valve installed at the inlet to the bypass device in the non-diverting position using a car-seal or a lock-and-key type configuration.

ii. Low leg drains, high point bleeds, analyzer vents, open-ended valves or lines, and safety devices are not subject to the requirements of paragraph (i) of this section.

[45CSR§13-5.11; 45CSR13, R13-2916, Condition 11.1.5.]

9.2. Monitoring Requirements

9.2.1. The permittee shall monitor the throughput to the storage vessels (TK-1 – TK-8, WTK-1 – WTK-2) on a monthly basis.

[45CSR13, R13-2916, Condition 11.2.1.]

9.2.2. To demonstrate compliance with permit condition 9.1.1, the permittee shall monitor the vapor recovery system in accordance with the plans and specifications and manufacturer’s recommendations.

[45CSR13, R13-2916, Condition 11.2.2.]

9.2.3. To demonstrate compliance with the closed vent system requirements of permit conditions 9.1.3 and 9.1.4, the permittee shall:

a. Initial requirements. Conduct an initial visual, olfactory, and auditory inspection for defects that could result in air emissions within 180 days of start-up. Defects include, but are not limited to, visible cracks, holes, or gaps in piping; loose connections; liquid leaks; or broken or missing caps or other closure devices.

1. The annual inspection shall include the bypass inspection, conducted according to paragraph (c) of this section.

2. In the event that a leak or defect is detected, you must repair the leak or defect as soon as practicable. Grease or another applicable substance must be applied to deteriorating or cracked gaskets to improve the seal while awaiting repair.

3. Delay of repair of a closed vent system for which leaks or defects have been detected is allowed if the repair is technically infeasible without a shutdown, or if you determine that emissions resulting from immediate repair would be greater than the fugitive emission likely to result from delay of repair. You must complete repair of such equipment by the end of the next shutdown.
b. Continuous requirements. Conduct an annual visual, olfactory, and auditory inspection for defects that could result in air emissions. Defect include, but are not limited to, visible cracks, holes, or gaps in piping, loose connections; liquid leaks; or broken or missing caps or other closure devices.

1. The annual inspection shall be conducted within 365 calendar days from the date of the previous inspection or earlier.

2. The annual inspection shall include the bypass inspection, conducted according to paragraph (c) of this section.

c. Bypass inspection. Visually inspect the bypass valve during the initial and annual inspection for the presence of the car seal or lock-and-key type configuration to verify that the valve is maintained in the non-diverting position to ensure that the vent stream is not diverted through the bypass device. If an alternative method is used, conduct the inspection of the bypass as described in the operating procedures.

d. Unsafe to inspect requirements. You may designate any parts of the closed vent system as unsafe to inspect if the requirements in paragraphs (i) and (ii) of this section are met. Unsafe to inspect parts are exempt from the inspection requirements of paragraphs (a) and (b) of this section.

1. You determine 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 the requirements.

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

e. Difficult to inspect requirements. You may designate any parts of the closed vent system as difficult to inspect, if the requirements in paragraphs (i) and (ii) of this section are met. Difficult to inspect parts are exempt from the inspection requirements of paragraphs (a) and (b) of this section.

1. You determine that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface.

2. You have a written plan that requires inspection of the equipment at least once every 5 years.

[45CSR§13-5.11; 45CSR13, R13-2916, Condition 11.2.3.]

9.3. Testing Requirements

9.3.1. None

9.4. Recordkeeping Requirements

9.4.1. All records required under Section 9.4 shall be maintained on site or in a readily accessible off-site location maintained by the permittee for a period of five (5) years. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official.

[45CSR13, R13-2916, Condition 11.3.1.]
9.4.2. *Record of Maintenance of VRU.* The permittee shall maintain accurate records of the vapor recovery system equipment inspection and/or preventative maintenance procedures.

[45CSR13, R13-2916, Condition 11.3.2.]

9.4.3. To demonstrate compliance with permit condition 9.1.2, the permittee shall maintain a record of the aggregate throughput for the storage tanks on a monthly and rolling twelve-month total. Said records shall be maintained on site or in a readily accessible off-site location maintained by the permittee for a period of five (5) years. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official.

[45CSR13, R13-2916, Condition 11.3.4.]

9.4.4. The permittee shall maintain a copy of all design records of the process, maintenance records of equipment and any downtime hours associated with the vapor recovery system.

[45CSR13, R13-2916, Condition 11.3.5.]

9.4.5. To demonstrate compliance with the closed vent monitoring requirements, the following records shall be maintained.

i. The initial compliance requirements;

ii. Each annual visual inspection conducted to demonstrate continuous compliance, including records of any repairs that were made as results of the inspection;

iii. Bypass requirements.

a. Each inspection or each time the key is checked out or a record each time the alarm is sounded;

b. Each occurrence that the control device was bypassed. If the device was bypassed, the records shall include the date, time, and duration of the event and shall provide the reason the event occurred. The record shall also include the estimate of emissions that were released to the environment as a result of the bypass.

iv. Any part of the system that has been designated as "unsafe to inspect" in accordance with 9.2.3.d or "difficult to inspect" in accordance with 9.2.3.e.

[45CSR§13-5.11; 45CSR13, R13-2916, Condition 11.3.6.]

9.5. **Reporting Requirements**

9.5.1. Upon request by the Director, the permittee shall report deviations within a requested time frame of any occurrences when the control device was operated outside of the parameters defined in the monitoring plan.

[45CSR13, R13-2916, Condition 11.4.1.]

9.5.2. The permittee shall notify the Director of any downtime of the vapor recovery system in excess of 5%, based on the 12 month rolling total, in writing to the Director of the Division of Air Quality as soon as practicable, but within ten (10) calendar days of the discovery and shall include, at a minimum, the following information: the dates and durations of each downtime event, the cause or suspected causes for each downtime event, any corrective measures taken or planned for each downtime event.

[45CSR13, R13-2916, Condition 11.4.2.]
9.6. Compliance Plan

9.6.1. None
10.0 Truck Loading [emission point ID(s): ELOAD-1, ELOAD-2]

10.1 Limitations and Standards

10.1.1. The maximum quantity of stabilized condensate that shall be loaded shall not exceed 9,965,000 gallons per year. Compliance with the Maximum Yearly Operation Limitation shall be determined using a twelve-month rolling total. A twelve-month rolling total shall mean the sum of the condensate throughput at any given time during the previous twelve consecutive calendar months. [45CSR13, R13-2916, Condition 12.1.1.]

10.1.2. The maximum quantity of produced water that shall be loaded shall not exceed 1,530,000 gallons per year. Compliance with the Maximum Yearly Operation Limitation shall be determined using a twelve-month rolling total. A twelve-month rolling total shall mean the sum of the produced water throughput at any given time during the previous twelve consecutive calendar months. [45CSR13, R13-2916, Condition 12.1.2.]

10.1.3. The Condensate Truck Loading (ELOAD-1) and the Produced Water Truck Loading (ELOAD-2) shall be operated in accordance with the plans and specifications filed in Permit Application R13-2916B. The minimum guaranteed collection efficiency is 70% for volatile organic compound (VOC) emissions. All collected VOC emissions from the Condensate Truck Loading (ELOAD-1) will be controlled by a carbon canister (CARBCAN) that shall be designed to achieve a minimum guaranteed control efficiency of 95% for VOC emissions, for an overall control efficiency of 66.5%. [45CSR13, R13-2916, Condition 12.1.3.]

10.1.4. The carbon canister (CARBCAN) must be operated at all times when gases, vapors, and fumes are vented from the Condensate Truck Loading (ELOAD-1). In addition, the carbon canister must be operated in series, as dual carbon canisters, in case of emission breakthrough in one carbon canister. [45CSR13, R13-2916, Condition 12.1.4.]

10.1.5. Prior to the loading of each truck, the saturation indicator on the carbon canister (CARBCAN) must be checked to ensure that the carbon is not spent. If the saturation indicator demonstrates that the carbon is spent, no truck loading is allowed. [45CSR13, R13-2916, Condition 12.1.5.]

10.1.6. All carbon in the carbon canister (CARBCAN) must be replaced with fresh carbon when the saturation indicator changes in color from pink to brown. [45CSR13, R13-2916, Condition 12.1.6.]

10.1.7. The permittee is required to possess on site, fresh replacements for all carbon canisters (CARBCAN) being used. [45CSR13, R13-2916, Condition 12.1.7.]

10.2 Monitoring Requirements

10.2.1. The permittee shall monitor the Condensate Truck Loading (ELOAD-1) and the Produced Water Truck Loading (ELOAD-2) on a daily basis. [45CSR13, R13-2916, Condition 12.2.1.]

10.2.2. The permittee shall monitor all carbon canister (CARBCAN) replacements. [45CSR13, R13-2916, Condition 12.2.2.]
10.3.  Testing Requirements

10.3.1.  None

10.4.  Recordkeeping Requirements

10.4.1.  The permittee shall maintain a record of the Condensate Truck Loading (EPLOAD-1) and the Produced Water Truck Loading (EPLOAD-2) to demonstrate compliance with permit conditions 10.1.1 and 10.1.2 of this permit. Said records shall be maintained for a period of five (5) years on site or in a readily accessible off-site location maintained by the permittee. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official.

[45CSR13, R13-2916, Condition 12.3.1.]

10.4.2.  To demonstrate compliance with permit condition 10.1.5, the permittee shall maintain records that the saturation indicator was examined prior to the loading of any truck. Said records required shall be maintained on site or in a readily accessible off-site location maintained by the permittee for a period of five (5) years. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official.

[45CSR13, R13-2916, Condition 12.3.2.]

10.4.3.  To demonstrate compliance with permit condition 10.1.6, the permittee shall maintain records of carbon canister replacements. Said records required shall be maintained on site or in a readily accessible off-site location maintained by the permittee for a period of five (5) years. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official.

[45CSR13, R13-2916, Condition 12.3.3.]

10.5.  Reporting Requirements

10.5.1.  None

10.6.  Compliance Plan

10.6.1.  None
11.0 Compressor Blowdowns and Pigging Operations [emission point ID(s): EPBD, EPPIG]

11.1. Limitations and Standards

11.1.1. The maximum number of compressor blowdown events per year shall not exceed 104 per compressor (12), with an estimated 1,905 scf per event. Compliance shall be determined using a twelve-month rolling total. A twelve-month rolling total shall mean the sum of the blowdown events at any given time during the previous twelve consecutive calendar months.
[45CSR13, R13-2916, Condition 13.1.1.]

11.1.2. The maximum number of wet gas pigging events per year shall not exceed 52, with an estimated 1,649 scf of wet gas per event. Compliance shall be determined using a twelve-month rolling total. A twelve-month rolling total shall mean the sum of the wet gas pigging events at any given time during the previous twelve consecutive calendar months.
[45CSR13, R13-2916, Condition 13.1.2.]

11.1.3. The maximum number of dry gas pigging events per year shall not exceed 52, with an estimated 8,133 scf of wet gas per event. Compliance shall be determined using a twelve-month rolling total. A twelve-month rolling total shall mean the sum of the dry gas pigging events at any given time during the previous twelve consecutive calendar months.
[45CSR13, R13-2916, Condition 13.1.3.]

11.2. Monitoring Requirements

11.2.1. None

11.3. Testing Requirements

11.3.1. None

11.4. Recordkeeping Requirements

11.4.1. All records required under section 11.4 of this permit shall be shall be kept in accordance with permit condition 3.4.2.
[45CSR13, R13-2916, Condition 13.2.1.]

11.4.2. To demonstrate compliance with permit conditions 11.1.1 – 11.1.3, the permittee shall maintain a record of the compressor blowdown and pigging events and estimated volume per event (scf) on a monthly and rolling twelve-month total.
[45CSR13, R13-2916, Condition 13.2.2.]

11.5. Reporting Requirements

11.5.1. Any exceedance of permit conditions 11.1.1 – 11.1.3 must be reported in writing to the Director of the DAQ as soon as practicable, but within ten (10) calendar days, of the occurrence and shall include, at a minimum, the following information: the date of the exceedance, the estimate of VOC emissions released to the atmosphere as a result of the exceedance and any corrective measures taken or planned.
[45CSR13, R13-2916, Condition 13.3.1.]
11.6. Compliance Plan

11.6.1. None