West Virginia Department of Environmental Protection
Harold D. Ward
Cabinet Secretary

Permit to Operate

Pursuant to
Title V
of the Clean Air Act

Issued to:
Diversified Midstream LLC
Burnsville #71 Station
R30-00700006-2023

Issued: April 10, 2023 • Effective: April 24, 2023
Expiration: April 10, 2028 • Renewal Application Due: October 10, 2027

Laura M. Crowder
Director, Division of Air Quality

Laura M. Crowder
Permit Number: R30-00700006-2023
Permittee: Diversified Midstream LLC
Facility Name: Burnsville #71 Station
Permittee Mailing Address: 101 McQuiston Drive, Jackson Center, PA 16133

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: Burnsville, Braxton County, West Virginia
Facility Mailing Address: 243 Kanawha Ave, Burnsville, WV 26335
Telephone Number: (304) 853-2736
Type of Business Entity: Corporation
Facility Description: Natural gas production and transmission facility
SIC Codes: Primary: 4922
UTM Coordinates: 529.550 km Easting • 4,301.600 km Northing • Zone 17

Permit Writer: Beena Modi

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.
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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>C-002</td>
<td>C-002</td>
<td>Reciprocating Engine/Integral Compressor Cooper Bessemer GMVH Serial No. 48957 2SLB</td>
<td>1984</td>
<td>1350 HP (Derated at 378 HP)</td>
<td>None</td>
</tr>
<tr>
<td>C-003</td>
<td>C-003</td>
<td>Reciprocating Engine/Integral Compressor Cooper Bessemer GMVH Serial No. 48958 2SLB</td>
<td>1984</td>
<td>1350 HP (Derated at 378 HP)</td>
<td>None</td>
</tr>
<tr>
<td>G-002A</td>
<td>G-002A</td>
<td>Kohler Emergency Generator</td>
<td>2015</td>
<td>302 HP</td>
<td>None</td>
</tr>
<tr>
<td>TEG</td>
<td>FLARE</td>
<td>TEG Dehydrator</td>
<td>1984</td>
<td>34.0 mmscf/day</td>
<td>FLARE</td>
</tr>
<tr>
<td>BLR</td>
<td>BLR</td>
<td>Heating Boiler</td>
<td>2016</td>
<td>1.26 mmBtu/hr</td>
<td>None</td>
</tr>
<tr>
<td>DEHY</td>
<td>DEHY</td>
<td>Dehydration Boiler</td>
<td>1984</td>
<td>0.025 mmBtu/hr</td>
<td>None</td>
</tr>
<tr>
<td>FLARE</td>
<td>FLARE</td>
<td>Dehydration Flare John Zink: EEF-U-4 Model: 320-2 95 % Destruction Efficiency</td>
<td>1984</td>
<td>1.02 mmBtu/hr 50,000 Btu/hr(Pilot)</td>
<td>None</td>
</tr>
<tr>
<td>Tank 1</td>
<td>Tank 1</td>
<td>Tank containing waste fluid</td>
<td>1993</td>
<td>10,000 gallon</td>
<td>None</td>
</tr>
<tr>
<td>Tank 2</td>
<td>Tank 2</td>
<td>Tank containing lube oil</td>
<td>1993</td>
<td>12,000 gallon</td>
<td>None</td>
</tr>
<tr>
<td>Tank 3</td>
<td>Tank 3</td>
<td>Tank containing Triethylene Glycol</td>
<td>1993</td>
<td>3,000 gallon</td>
<td>None</td>
</tr>
<tr>
<td>Tank 4</td>
<td>Tank 4</td>
<td>Tank containing Ethylene Glycol</td>
<td>1993</td>
<td>3,000 gallon</td>
<td>None</td>
</tr>
<tr>
<td>Tank 5</td>
<td>Tank 5</td>
<td>Tank containing Used Oil</td>
<td>1993</td>
<td>2,000 gallon</td>
<td>None</td>
</tr>
<tr>
<td>Tank 6</td>
<td>Tank 6</td>
<td>Tank containing Maintenance Oil</td>
<td>1993</td>
<td>1,000 gallon</td>
<td>None</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>R13-3252A</td>
<td>December 30, 2022</td>
</tr>
<tr>
<td>G60-C060A</td>
<td>August 12, 2015</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 other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.39.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

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

2.2. Acronyms

<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>mmbf/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>TPY</td>
<td>Tons per Year</td>
</tr>
<tr>
<td>TRS</td>
<td>Total Reduced Sulfur</td>
</tr>
<tr>
<td>TSP</td>
<td>Total Suspended Particulate</td>
</tr>
<tr>
<td>USEPA</td>
<td>United States Environmental Protection Agency</td>
</tr>
<tr>
<td>UTM</td>
<td>Universal Transverse Mercator</td>
</tr>
<tr>
<td>VEE</td>
<td>Visual Emissions Evaluation</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
</tr>
</tbody>
</table>
2.3. Permit Expiration and Renewal

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

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

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

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

2.4. Permit Actions

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

2.5. Reopening for Cause

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

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

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

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

d. The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements. [45CSR§30-6.6.a.]
2.6. Administrative Permit Amendments

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

[45CSR§30-6.4.]

2.7. Minor Permit Modifications

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

[45CSR§30-6.5.a.]

2.8. Significant Permit Modification

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

[45CSR§30-6.5.b.]

2.9. Emissions Trading

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

[45CSR§30-5.1.h.]

2.10. Off-Permit Changes

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

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

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

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

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

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

[45CSR§30-5.9.]

2.11. Operational Flexibility

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

[45CSR§30-5.8]

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

[45CSR§30-5.8.a.]

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

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

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

[45CSR§30-5.8.c.]

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

[45CSR§30-2.40]
2.12. Reasonably Anticipated Operating Scenarios

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

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

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

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

[45CSR§30-5.1.i.]

2.13. Duty to Comply

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

[45CSR§30-5.1.f.1.]

2.14. Inspection and Entry

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

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

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

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

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

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

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

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

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

[45CSR§30-5.3.d.]

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

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

[45CSR§30-5.1.f.2.]

2.17. **Reserved**

2.18. **Federally-Enforceable Requirements**

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

[45CSR§30-5.2.a.]

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

2.19. **Duty to Provide Information**

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

[45CSR§30-5.1.f.5.]
2.20. **Duty to Supplement and Correct Information**

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

[45CSR§30-4.2.]

2.21. **Permit Shield**

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

[45CSR§30-5.6.a.]

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

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

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

c. The authority of the Administrator of U.S. EPA to require information under § 114 of the Clean Air Act or to issue emergency orders under § 303 of the Clean Air Act.

[45CSR§30-5.6.c.]

2.22. **Credible Evidence**

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

[45CSR§30-5.3.e.3.B.]

2.23. **Severability**

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

[45CSR§30-5.1.e.]

2.24. **Property Rights**

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

[45CSR§30-5.1.f.4]
2.25. Acid Deposition Control

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

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

   b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.

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

[45CSR§30-5.1.d.]

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

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

3.1. Limitations and Standards

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

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

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

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

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

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

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

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

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161. [40 C.F.R. 82, Subpart F]
3.1.8. **Risk Management Plan.** Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71.

[40 C.F.R. 68]

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

[45CSR§17-3.1, State-Enforceable only]

3.1.10. **Minor Source of Hazardous Air Pollutants (HAP).** HAP emissions from the affected 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 affected facility is a minor HAP source.

[45CSR13, G60-C060A, G60-C Condition 4.1.2]

3.2. **Monitoring Requirements**

3.2.1. None.

3.3. **Testing Requirements**

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

a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary’s delegated authority and any established equivalency determination methods which are applicable.

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

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

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

1. The permit or rule evaluated, with the citation number and language.

2. The result of the test for each permit or rule condition.

3. A statement of compliance or non-compliance with each permit or rule condition.

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

3.4. Recordkeeping Requirements

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

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

b. The date(s) analyses were performed;

c. The company or entity that performed the analyses;

d. The analytical techniques or methods used;

e. The results of the analyses; and

f. The operating conditions existing at the time of sampling or measurement.

[45CSR§30-5.1.c.2.A.; 45CSR13, R13-3252, 4.4.2; 45CSR13, G60-C060A, G60-C Condition 4.2.1]

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.e. State-Enforceable only.]
3.4.4. **Minor Source of Hazardous Air Pollutants (HAP).** The registrant shall maintain records of annual HAP emissions using AP-42 emission factors, GRI-GLY Calc model outputs, manufacturer guaranteed values, sample and/or test data, or other methods approved by DAQ demonstrating that facility-wide emissions are less than those specified in Section 3.1.10.

[45CSR13, G60-C060A, G60-C Condition 4.2.4]

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:**

Section Chief  
U. S. Environmental Protection Agency, Region III  
Enforcement and Compliance Assurance Division  
Air, RCRA and Toxics Branch (3ED21)

Four Penn Center  
1600 John F. Kennedy Boulevard  
Philadelphia, PA 19103-2852

**DAQ Compliance and Enforcement¹:**

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 **Fees.** The permittee shall pay fees on an annual basis in accordance with 45CSR§30-8.

[45CSR§30-8.]

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

<table>
<thead>
<tr>
<th>DAQ:</th>
<th>US EPA:</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="mailto:DEPAirQualityReports@wv.gov">DEPAirQualityReports@wv.gov</a></td>
<td><a href="mailto:R3_APD_Permits@epa.gov">R3_APD_Permits@epa.gov</a></td>
</tr>
</tbody>
</table>

[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:

<table>
<thead>
<tr>
<th>DAQ:</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="mailto:DEPAirQualityReports@wv.gov">DEPAirQualityReports@wv.gov</a></td>
</tr>
</tbody>
</table>

[45CSR§30-5.1.c.3.A.]

3.5.7 Reserved.

3.5.8 Deviations.

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

1. Reserved.

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

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

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

[45CSR§30-5.1.c.3.C.]

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

[45CSR§30-5.1.c.3.B.]
3.5.9 New applicable requirements. If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.

[45CSR§30-4.3.h.1.B.]

3.6. 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.

<table>
<thead>
<tr>
<th>Regulation/Standard</th>
<th>Determination</th>
</tr>
</thead>
<tbody>
<tr>
<td>45CSR21 Regulation to Prevent and Control Air Pollution from the Emission of Volatile Organic Compounds. Burnsville #71 station is not located in Cabell, Kanawha, Putnam, Wayne, or Wood counties that are affected by 45CSR21.</td>
<td></td>
</tr>
<tr>
<td>45CSR27 To Prevent and Control the Emissions of Toxic Air Pollutants. Natural gas is included as a petroleum product and contains less than 5% benzene by weight. 45CSR§27-2.4 exempts equipment &quot;used in the production and distribution of petroleum products providing that such equipment does not produce or contact materials containing more than 5% benzene by weight.&quot;</td>
<td></td>
</tr>
<tr>
<td>40 C.F.R 60 Subpart Dc This subpart applies to steam generating units greater than 10 MMBtu/hr and less than 100 MMBtu/hr. Burnsville #71 Compressor Station does not have any steam generating units greater than 10 MMBtu/hr.</td>
<td></td>
</tr>
<tr>
<td>40 C.F.R. 60 Subpart GG Standards of Performance for Stationary Gas Turbines. There are no turbines at the Burnsville #71 Compressor Station.</td>
<td></td>
</tr>
<tr>
<td>40 C.F.R. 60 Subpart Ka Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984. All tanks are below 40,000 gallons in capacity.</td>
<td></td>
</tr>
<tr>
<td>40 C.F.R. 60 Subpart Kb Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. All tanks are below 75 m³ in capacity.</td>
<td></td>
</tr>
<tr>
<td>40 C.F.R. 60 Subpart KKK Standards of Performance for Equipment Leaks of VOC From Onshore Natural Gas Processing Plants. Burnsville #71 Compressor Station is not engaged in the extraction of natural gas from field gas or in the fractionation of mixed natural gas liquids to natural gas products.</td>
<td></td>
</tr>
<tr>
<td>40 C.F.R. 60 Subpart LLL Standards of Performance for Onshore Natural Gas Processing: SO₂ Emissions. There are no sweetening units at the Burnsville #71 Compressor Station.</td>
<td></td>
</tr>
<tr>
<td>Regulation</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td>40 C.F.R. 60 Subpart III</td>
<td>Standards of performance for Stationary Compression Ignition Engines. All engines at Burnsville #71 Compressor Station are spark ignition engines.</td>
</tr>
<tr>
<td>40 C.F.R. 60 Subpart KKKK</td>
<td>Standards of Performance for Stationary Combustion Turbines. There are no turbines at the Burnsville #71 Compressor Station.</td>
</tr>
<tr>
<td>40 C.F.R. 60 Subparts OOOO and OOOOa</td>
<td>These subparts apply to affected facilities that commenced construction, reconstruction, or modification after August 23, 2011 for Subpart OOOO, and after September 18, 2015 for Subpart OOOOa. The equipment at the Burnsville Station was installed prior to the applicability dates of both rules. Therefore, 40 C.F.R. 60 Subparts OOOO and OOOOa are not applicable.</td>
</tr>
<tr>
<td>40 C.F.R. 63 Subpart HHH</td>
<td>National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities. The Burnsville #71 Compressor Station is not subject to Subpart HHH since the Burnsville’s gas custody transfer is at an extraction facility and not to a natural gas transmission facility.</td>
</tr>
<tr>
<td>40 C.F.R. 63 Subpart DDDDDD</td>
<td>This MACT standard applies to industrial, commercial, and institutional boilers and process heaters at major sources of HAPs. Burnsville #71 Compressor Station is not major for HAPS.</td>
</tr>
<tr>
<td>40 C.F.R. 63 Subpart JJJJJJ</td>
<td>This MACT standard applies to industrial, commercial, and institutional boilers at area sources of HAPs. All boilers at Burnsville #71 Compressor Station fire natural gas exclusively. Natural gas boilers are exempt from the rule per 40 C.F.R. §63.11195(e).</td>
</tr>
</tbody>
</table>
4.0 Source-Specific Engine Requirements [emission point ID (C-002, C-003, and G-002A)]

4.1 Limitations and Standards

4.1.1. The 1,350 hp Cooper Bessemer GMVH, 2SLB RICEs (C-002, C-003) shall be operated at a derated horsepower not to exceed 378 hp each. [45CSR13, R13-3252, 4.1.5]

4.1.2. Maximum Annual Operation. The maximum hours of operation shall not exceed 10,000 hours per year total for the combination of both 378 hp Cooper Bessemer GMVH, 2SLB RICE (C-002, C-003) units. Compliance with the Maximum Annual Operation Limitation shall be determined using a twelve month rolling total. A twelve month rolling total shall mean the sum of the hours of operation at any given time during the previous twelve consecutive calendar months. [45CSR13, R13-3252, 4.1.6]

4.1.3. Maximum Fuel Throughput. The maximum natural gas fuel throughput of both 378 hp Cooper Bessemer GMVH, 2SLB RICE (C-002, C-003) engines combined shall not exceed a total of 56.14 MM cubic feet per year. Compliance with the Maximum Fuel Throughput Limitation shall be determined using a twelve month rolling total. A twelve month rolling total shall mean the sum of the natural gas throughput at any given time during the previous twelve consecutive calendar months. [45CSR13, R13-3252, 4.1.7]

4.1.4. Maximum emissions from both of the 378 hp Cooper Bessemer GMVH, 2SLB RICE (C-002, C003) engines combined 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>0.34</td>
<td>0.88</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>14.90</td>
<td>37.21</td>
</tr>
<tr>
<td>Volatile Organic Compounds</td>
<td>29.32</td>
<td>73.30</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>1.60</td>
<td>4.02</td>
</tr>
</tbody>
</table>

[45CSR13, R13-3252, 4.1.8]

4.1.5. The emission limitations specified in permit condition 4.1.4 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 shutdown requirements in accordance with 40 CFR Part 63, Subpart ZZZZ. [45CSR13, R13-3252, 4.1.9]

4.1.6. Emission Units C-002 and C-003, both derated to 378 hp, 2SLB, Cooper Bessemer GMVH compressor engines constructed prior to the applicability date of 06/12/2006, are subject to 40CFR63 Subpart ZZZZ and shall maintain compliance with the rule in accordance with §63.6640, Table 2d (Line 6) and Table 6 (Line 9) of Subpart ZZZZ. The reporting and recordkeeping requirements associated with these engines shall be
maintained in accordance with §63.6655.

[45CSR13, R13-3252, 4.1.10]

4.1.7. The permittee must comply with the general provisions of 40 C.F.R. 63 as shown in Table 8 of 40 C.F.R. 63. Engines C-002 and C-003 are exempt from the following sections of the general provisions as per 40 C.F.R. §63.6645(a)(5): 40 C.F.R. §§ 63.7(b) and (c), 40 C.F.R. §§ 63.8(e), (f)(4), and (f)(6), 40 C.F.R. §§63.9(b)- (e), (g) and (h).

[40 C.F.R. §63.6665, 40 C.F.R. §63.6645(a)(5), Table 8 of 40 C.F.R. 63 Subpart ZZZZ; 45CSR34; 45CSR13, R13-3252, 4.1.12] (C-002, C-003)

4.1.8. For existing Stationary RICE located at an area source of HAP emissions, the permittee must comply with the following requirements from Table 2d of 40 C.F.R. 63 Subpart ZZZZ.

a. Compressor engines C-002 and C-003 are classified 2-stroke, lean-burn, non-emergency, SI units with a rating of 1,350 hp, operated at a derated horsepower not to exceed 378 hp each, at an area source of HAPs and as such are subject to the following requirements:

1. Change the oil and filter every 4,320 hours of operation or annually, whichever comes first; and
2. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary; and
3. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.

[40 C.F.R. §63.6603, Table 2d of 40 C.F.R. 63 Subpart ZZZZ; 45CSR34; 45CSR13, R13-3252, 4.1.10.a] (C-002, C-003)

4.1.9. The permittee must demonstrate continuous compliance with each emission limitation or operating limitation in Tables 1b and 2d of 40 C.F.R. 63 Subpart ZZZZ that apply according to the methods from Table 6 of C.F.R. 63 Subpart ZZZZ. Engines C-002 and C-003 are subject to the requirements of 40 C.F.R. §63.6605.

a. For the engines C-002 and C-003 the permittee shall demonstrate continuous compliance by:

1. Operating and maintaining the stationary RICE according to the manufacturer’s emission-related operation and maintenance instructions; or
2. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[40 C.F.R. §§ 63.6605, 63.6640(a), Table 6 of 40 C.F.R. 63 Subpart ZZZZ; 45CSR34; 45CSR13, R13-3252, 4.1.10.b and 4.1.11] (C-002, C-003)

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

[40 C.F.R. §63.6625(e); 45CSR34; 45CSR13, R13-3252, 4.1.12] (C-002, C-003)
4.1.11. If the permittee operates a new, reconstructed, or existing stationary engine, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to 40 C.F.R. Part 63, Subpart ZZZZ apply. 

[40 C.F.R. §63.6625(h); 45CSR34; 45CSR13, R13-3252, 4.1.12] (C-002, C-003)

4.1.12. If you own or operate a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to 40 C.F.R. Part 63, Subpart ZZZZ or in items 5, 6, 7, 9, or 11 of Table 2d to 40 C.F.R. Part 63, Subpart ZZZZ, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to 40 C.F.R. Part 63, Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to 40 C.F.R. Part 63, Subpart ZZZZ. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. 

[40 C.F.R. §63.6625(j); 45CSR34; 45CSR13, R13-3252, 4.1.12] (C-002, C-003)

4.1.13. The reciprocating internal combustion engines listed in the General Permit Registration application shall be operated and maintained in accordance with the manufacturer’s recommendations and specifications and in a manner consistent with good operating practices. 

[45CSR13, G60-C060A, G60-C Condition 5.1.1] (G-002A)

4.1.14. Regulated Pollutant Limitation. The registrant shall not cause, suffer, allow or permit emissions of PM, PM\(\text{10}\), VOC, SO\(\text{2}\), NO\(\text{X}\), CO, and formaldehyde, from any registered reciprocating internal combustion engine to exceed the potential to emit (pounds per hour and tons per year) listed in the General Permit Registration.

<table>
<thead>
<tr>
<th>Source ID</th>
<th>Nitrogen Oxides</th>
<th>Carbon Monoxide</th>
<th>Volatile Organic Compounds</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>lb/hr</td>
<td>ton/year</td>
<td>lb/hr</td>
</tr>
<tr>
<td>G-002A</td>
<td>0.02</td>
<td>0.01</td>
<td>0.18</td>
</tr>
</tbody>
</table>

[45CSR13, G60-C060A, G60-C Condition 5.1.2] (G-002A)

4.1.15. Maximum Fuel Consumption Limitation. The maximum fuel consumption for any registered reciprocating internal combustion engine listed in the General Permit Registration application shall not exceed the fuel consumption recorded with registrant’s Class II General Permit Registration Application without effecting a modification or administrative update. Compliance with the Maximum Yearly Fuel Consumption Limitation shall be determined using a twelve month rolling total. A twelve month rolling total shall mean the sum of the fuel consumption at any given time during the previous twelve consecutive calendar months. 

[45CSR13, G60-C060A, G60-C Condition 5.1.3] (G-002A)
4.1.16. 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.

<table>
<thead>
<tr>
<th>Engine type and fuel</th>
<th>Maximum Engine Power</th>
<th>Manufacture Date</th>
<th>Emission Standards&lt;sup&gt;a&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency</td>
<td>HP ≥ 130</td>
<td></td>
<td>g/HP-hr ppmvd at 15% O&lt;sub&gt;2&lt;/sub&gt;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>NO&lt;sub&gt;x&lt;/sub&gt;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2.0</td>
</tr>
</tbody>
</table>

<sup>a</sup> Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O<sub>2</sub>.

<sup>d</sup> For purposes of this subpart, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

[40 C.F.R. §60.4233(e); Table 1 to 40 C.F.R. 60 Subpart JJJJ; 45CSR16; 45CSR13, G60-C060A, G60-C Condition 8.2.5] (G-002A)

4.1.17. 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.

[40 C.F.R. §60.4234; 45CSR16; 45CSR13, G60-C060A, G60-C Condition 8.2.9] (G-002A)

4.1.18. For emergency stationary SI ICE with a maximum engine power of greater than 19 KW (25 HP), owners and operators may not install engines that do not meet the applicable requirements in §60.4233 after January 1, 2011.

[40 C.F.R. §60.4236(c); 45CSR16; 45CSR13, G60-C060A, G60-C Condition 8.3.4] (G-002A)

4.1.19. Starting on January 1, 2011, if the emergency stationary SI internal combustion engine that is greater than or equal to 130 HP and less than 500 HP that was built on or after January 1, 2011, does not meet the standards applicable to non-emergency engines, the owner or operator must install a non-resettable hour meter.

[40 C.F.R. §60.4237(b); 45CSR16; 45CSR13, G60-C060A, G60-C Condition 8.3.8] (G-002A)

4.1.20. If you are an owner or operator of a stationary SI internal combustion engine that is manufactured after July 1, 2008, and must comply with the emission standards specified in §60.4233(a) through (c), you must comply by purchasing an engine certified to the emission standards in §60.4231(a) through (c), as applicable, for the same engine class and maximum engine power. In addition, you must meet one of the requirements specified in 40 C.F.R. §§60.4243(a)(1) and (2).

a. 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.

b. 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 40 C.F.R. §§60.4243(a)(2)(i) through (iii), as appropriate.
1. If you are an owner or operator of a stationary SI internal combustion engine greater than or equal to 100 HP and less than or equal to 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 to demonstrate compliance.

[40CFR§60.4243(a), 45CSR16, 45CSR13, G60-C060A, G60-C Condition 8.4.1] (G-002A)

4.1.21. 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 according to one of the methods specified in 40 C.F.R. §§60.4243 (b)(1) and (2).

a. Purchasing an engine certified according to procedures specified in this subpart, for the same model year and demonstrating compliance according to one of the methods specified in paragraph 40 C.F.R §60.4243(a).

[40CFR§60.4243(b)(1), 45CSR16, 45CSR13, G60-C060A, G60-C Condition 8.4.2] (G-002A)

4.1.22. If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (a) through (c). In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (a) through (c), is prohibited. If you do not operate the engine according to the requirements in paragraphs (a) through (c), the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

a. There is no time limit on the use of emergency stationary ICE in emergency situations.

b. You may operate your emergency stationary ICE for the purpose specified in paragraph (b)(i) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (c) counts as part of the 100 hours per calendar year allowed by this paragraph (b).

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

ii. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

A. The engine is dispatched by the local balancing authority or local transmission and distribution system operator;
B. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

C. The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

D. The power is provided only to the facility itself or to support the local transmission and distribution system.

E. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[40 CFR §60.4243(d), 45CSR16, 45CSR13, G60-C060A, G60-C Condition 8.4.4] (G-002A)

4.2. Monitoring Requirements

4.2.1. None.

4.3. Testing Requirements

4.3.1. 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. [40 CFR §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. [40 CFR §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. [40 CFR §60.4244(c)]

d. To determine compliance with the NOX mass per unit output emission limitation, convert the concentration of NOX in the engine exhaust using Equation 1 of this section:

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

Where:

- ER = Emission rate of NOX in g/HP-hr.
- \(C_d\) = Measured NOX concentration in parts per million by volume (ppmv).
1.912×10^{-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.

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

[40 CFR § 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.

$$ER = \frac{C_d \times 1.164 \times 10^{-3} \times Q \times T}{HP\textsubscript{-}hr} \quad \text{(Eq. 2)}$$

Where:

ER = Emission rate of CO in g/HP\textsubscript{-}hr.

C\textsubscript{d} = Measured CO concentration in ppmv.

1.164×10^{-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.

HP\textsubscript{-}hr = Brake work of the engine, in HP\textsubscript{-}hr.

[40 CFR § 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:

$$ER = \frac{C_d \times 1.833 \times 10^{-3} \times Q \times T}{HP\textsubscript{-}hr} \quad \text{(Eq. 3)}$$

Where:

ER = Emission rate of VOC in g/HP\textsubscript{-}hr.

C\textsubscript{d} = VOC concentration measured as propane in ppmv.

1.833×10^{-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.

[40CFR§60.4244(f)]

g. If the owner/operator chooses to measure VOC emissions using either Method 18 of 40 CFR part 60, 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.

\[ RF_i = \frac{C_{Mi}}{C_{Ai}} \]  
(Eq. 4)

Where:

- \( RF_i \) = Response factor of compound i when measured with EPA Method 25A.
- \( C_{Mi} \) = Measured concentration of compound i in ppmv as carbon.
- \( C_{Ai} \) = True concentration of compound i in ppmv as carbon.

\[ C_{icorr} = RF_i \times C_{imeas} \]  
(Eq. 5)

Where:

- \( C_{icorr} \) = Concentration of compound i corrected to the value that would have been measured by EPA Method 25A, ppmv as carbon.
- \( C_{imeas} \) = Concentration of compound i measured by EPA Method 320, ppmv as carbon.

\[ C_{Peq} = 0.6098 \times C_{icorr} \]  
(Eq. 6)

Where:

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

[40CFR§60.4244(g)]

[45CSR13, G60-C060A, G60-C Condition 8.5.1; 45CSR16] (G-002A)

4.3.2. The permittee must conduct an initial performance test of the Cooper Bessemer GMVH, 2SLB RICEs (C-002, C-003) within 180 days of permit issuance of R13-3252A for carbon monoxide (CO), nitrogen oxides (NOx), volatile organic compounds (VOC) and formaldehyde. The methods listed below from Appendix A of 40CFR60 shall be utilized for purposes of conducting performance tests, unless the Secretary approves an alternate or equivalent method. Submission of test protocol and notification of testing is described in permit condition 3.3.1.
### Pollutant Method

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>10, 10A, or 10B or 320 of Part 63, Appendix A</td>
</tr>
<tr>
<td>NOx</td>
<td>40CFR60, Subpart GG, 7E or 320 of Part 63, Appendix A</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>18, or 320 of Part 63, Appendix A</td>
</tr>
<tr>
<td>VOC</td>
<td>25 or 25A, and/or 320 of Part 63, Appendix A for Methane/Ethane correction to M25A</td>
</tr>
</tbody>
</table>

[45CSR13, R13-3252, 4.3.2]

4.3.3. The permittee must conduct an annual performance test of the Cooper Bessemer GMVH, 2SLB RICEs (C-002, C-003) for volatile organic compounds (VOC). The test method in permit condition 4.3.2 shall be utilized for purposes of conducting performance tests, unless the Secretary approves an alternate or equivalent method. Submission of test protocol and notification of testing is described in permit condition 3.3.1. [45CSR13, R13-3252, 4.3.3]

### Recordkeeping Requirements

4.4.1. The permittee must keep records in accordance with 40 C.F.R. § 63.6655, except for 40 C.F.R. §§63.6655(c) and (f). [40 C.F.R. §63.6655; 45CSR34] (C-002, C-003)

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

a. All notifications submitted to comply with this subpart and all documentation supporting any notification.

b. Maintenance conducted on the engine.

c. 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 1048, 1054, and 1060, as applicable.

d. 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.

[40CFR§60.4245(a), 45CSR13, G60-C060A, G60-C Condition 8.6.1.a; 45CSR16] (G-002A)

4.4.3. For all stationary SI emergency ICE greater than or equal to 130 HP and less than 500 HP manufactured on or after July 1, 2011 that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter.

[40CFR§60.4245(b), 45CSR13, G60-C060A, G60-C Condition 8.6.1.b; 45CSR16] (G-002A)
4.4.4. To demonstrate compliance with section 4.1.13, 4.1.14, and 4.1.15, the permittee shall maintain records of the amount and type of fuel consumed in each engine and the hours of operation of each engine. Said records shall be maintained on site or in a readily accessible off-site location maintained by the registrant for a period of five (5) years. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official.

[45CSR13, G60-C060A, G60-C Condition 5.4.1] (G-002A)

4.4.5. To demonstrate compliance with permit conditions 4.1.1 – 4.1.4, the permittee shall maintain records of the amount of natural gas consumed in the engine and the hours of operation of the engine. The permittee must keep records of the hours of operation of the engine that is recorded through a non-resettable hour meter. 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, R13-3252, 4.4.1]

4.5. Reporting Requirements

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

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

b. Both the replacement engine(s) and the repaired failed engine(s) shall not operate at the same time with the exception of any necessary testing of the repaired engine(s) and this testing may not exceed five (5) hours;

c. Potential hourly emissions from the replacement engine(s) are less than or equal to the potential hourly emissions from the engine(s) being replaced;

d. Credible performance emission test data verifying the emission rates associated with the operation of the substitute engine shall be submitted to the Director within five (5) days;

e. The permittee must provide written notification to the Director within five (5) days of the replacement. This notification must contain:

i. Information to support the claim of life threatening circumstances to justify applicability of this emergency provision;

ii. Identification of the engine(s) being temporarily replaced;

iii. The design parameters of the replacement engine(s) including, but not limited to, the design horsepower and emission factors;
iv. Projected duration of the replacement engine(s); and

v. The appropriate certification by a responsible official.

[45CSR §30-12.7]

4.5.2. 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.

[40CFR §60.4245(d), 45CSR §13, G60-C060A, G60-C Condition 8.6.1.d, 45CSR §16 (G-002A)]

4.5.3. The permittee shall report the results of the performance testing required in permit conditions 4.3.2 and 4.3.3 in compliance with permit condition 3.3.1.d.

[45CSR §13, R13-3252, 4.5.2]

4.5.4. If you own or operate an emergency stationary SI ICE with a maximum engine power more than 100 HP that operates for the purpose specified in § 60.4243(d)(3)(i), you must submit an annual report according to the requirements in paragraphs (e)(1) through (3) of §60.4245(e).

(1) The report must contain the following information:

(i) Company name and address where the engine is located.

(ii) Date of the report and beginning and ending dates of the reporting period.

(iii) Engine site rating and model year.

(iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.

(v)-(vi) [Reserved]

(vii) Hours spent for operation for the purposes specified in § 60.4243(d)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in § 60.4243(d)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

(2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

(3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in §60.4.

[40 C.F.R. §60.4245(e), 45CSR §16]
4.6. Compliance Plan

4.6.1. None.
5.0 Source-Specific Requirements [emission point ID (FLARE, BLR, DEHY)]

5.1. Limitations and Standards

5.1.1. The limitations set forth in this condition are hereby established to ensure that the permittee operates and maintains the glycol dehydration unit (TEG) with associated control device (FLARE) that limits hazardous air pollutant emissions to below the major source threshold value of HAPs as defined in 40 CFR §63.761 (Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities) as follows:

a. The maximum amount of wet natural gas processed through the dehydration unit shall not exceed 34 MMscf per day annual average.

b. The effluent generated by the flash tank of the dehydration unit shall be routed through a closed vent system to the fuel gas system or control device (FLARE) at all times while the dehydration unit is in operation.

c. The effluent generated by the still vent shall be routed through a closed vent system to the control device (FLARE) at all times while the dehydration unit is in operation.

d. The control device (FLARE) shall be operated and maintained in accordance with Condition 5.1.2.

e. The re-boiler shall be operated and maintained in accordance with Condition 5.1.3.

f. The closed vent system as required in this condition shall meet the following:

i. The system shall be constructed of hard piping.

ii. The system shall be constructed and maintained free of leaks. A leaking component is defined as a measured instrument reading greater than 500 ppm above background or by visual inspection.

iii. Detected leaks shall be repaired as soon as practicable with the first attempt at repair within 5 calendar days after detecting the leak. Repair shall be completed no later than 30 calendar days after the leak is detected.

[45CSR13, R13-3252, 4.1.1]

5.1.2. The permittee shall operate and maintain the control device (FLARE) for the dehydration unit in accordance with the following emission limitations and operating parameters.

a. Emissions of VOC from FLARE shall not exceed 2.36 pounds per hour. Annual VOC emissions from the FLARE shall not exceed 10.34 tons per year.

b. Total hazardous air pollutants (HAPs), which include BTEX, from the flare shall not exceed 0.55 pounds per hour. Annual HAP emissions from the FLARE shall not exceed 2.41 tons per year.

c. Actual average benzene emissions from the flare shall not be equal to or exceed 1.0 tons per year.

[40 CFR §63.764(e)(1)(ii); 45CSR34]
d. Compliance determination with the emission limits in items a, b, and c of this condition shall be made by using GYCALC™ 3.0 or higher.

e. Particulate matter emissions from the flare shall not exceed 0.01 pounds per hour. Compliance with this limit is satisfied by complying with requirements of Condition 5.1.2.g. This particulate matter emission limit shall demonstrate compliance with the less stringent hourly PM limit of 45CSR §6-4.1.

f. The effluent routed to FLARE shall not contain hydrogen sulfide greater than 50 grains per 100 cubic feet of gas. Compliance with this limit is satisfied by limiting the hydrogen sulfide (H₂S) loading of the incoming natural gas to the facility to no greater than 100 ppmv.

[g45 CSR §10-5.1.]

g. The permittee shall operate and maintain FLARE in a manner that minimizes VOC and volatile HAP emissions. Such operation of the control device shall constitute the following:

i. FLARE shall not exhibit any visible emissions, except for periods not to exceed a total of 5 minutes during two consecutive hours. Compliance with this streamlined limit shall demonstrate compliance with the 45CSR§6-4.3 20% opacity limit.

[g5 CSR §6-4.3.]

ii. The pilot flame for FLARE shall be lit at all times when the dehydration unit is operating. The fuel source for the pilot light shall be either natural gas, flash tank off gas, or a combination of the two fuels.

iii. The flare shall not be operated with an exit velocity at the tip greater than 60 feet per second.

iv. The net heating value of the effluent routed to the flare shall not be less than 200 Btu per standard cubic feet. Compliance with this requirement is satisfied by introducing fuel gas to the still vent effluent at a rate of no less than 500 scfh or the rate measured during the recent flare performance demonstration.

[g45CSR13, R13-3252, 4.1.2]

5.1.3. The permittee shall operate and maintain the reboiler (DEHY) for the dehydration unit in accordance with the following emission limitations and operating parameters.

a. Visible emissions from the emission point DEHY shall not exceed 10% opacity on a 6-minute block average. Compliance with this requirement is satisfied by complying with the fuel type restriction in Condition 5.1.3.b.

[g5 CSR §2-3.1]

b. The reboiler shall only be fueled with fuel gas, which can be either flash gas from the TEG Flash Tank, natural gas, or any mixture of these two fuels.

[g45CSR13, R13-3252, 4.1.3]

5.1.4. The following provisions of Part 63 Subpart HH National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities are applicable to the facility:
§ 63.764 General standards.

(a) Table 2 of the Part 63 Subpart HH specifies the provisions of subpart A (General Provisions) of Part 63 that apply and those that do not apply to owners and operators of affected sources subject to this subpart.

(b) All reports required under this subpart shall be sent to the Administrator at the appropriate address listed in §63.13. Reports may be submitted on electronic media.

(d) Except as specified in paragraph (e)(1) of this requirement, the owner or operator of an affected source located at an existing or new area source of HAP emissions shall comply with the applicable standards specified in paragraph (d) of this section.

(2) Each owner or operator of an area source not located in a UA plus offset and UC boundary (as defined in §63.761) shall comply with paragraphs (d)(2)(i) through (iii) of this requirement.

(i) Determine the optimum glycol circulation rate using the following equation:

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

Where:

- \( L_{OPT} \) = Optimal circulation rate, gal/hr.
- \( F \) = Gas flowrate (MMSCF/D).
- \( I \) = Inlet water content (lb/MMSCF).
- \( O \) = Outlet water content (lb/MMSCF).
- 3.0 = The industry accepted rule of thumb for a TEG-to-water ratio (gal TEG/lb H\(_2\)O).
- 1.15 = Adjustment factor included for a margin of safety.

(ii) Operate the TEG dehydration unit such that the actual glycol circulation rate does not exceed the optimum glycol circulation rate determined in accordance with paragraph (d)(2)(i) of this section. If the TEG dehydration unit is unable to meet the sales gas specification for moisture content using the glycol circulation rate determined in accordance with paragraph (d)(2)(i), the owner or operator must calculate an alternate circulation rate using GRI–GLYCalc\textsuperscript{TM}, Version 3.0 or higher. The owner or operator must document why the TEG dehydration unit must be operated using the alternate circulation rate and submit this documentation with the initial notification in accordance with §63.775(c)(7).

(iii) Maintain a record of the determination specified in paragraph (d)(2)(ii) in accordance with the requirements in §63.774(f) and submit the Initial Notification in accordance with the requirements in §63.774(c)(7). If operating conditions change and a modification to the optimum glycol circulation rate is required, the owner or operator shall prepare a new determination in accordance with paragraph (d)(2)(i) or (ii) of this section and submit the information specified under §63.775(c)(7)(ii) through (v).

(e) Exemptions. (1) The owner or operator of an area source is exempt from the requirements of paragraph (d) of this section if the criteria listed in paragraph (e)(1)(i) or (ii) of this section are met, except that the records of the determination of these criteria must be maintained as required in §63.774(d)(1).
(i) The actual annual average flowrate of natural gas to the glycol dehydration unit is less than 85 thousand standard cubic meters per day, as determined by the procedures specified in §63.772(b)(1) of this subpart; or

(ii) The actual average emissions of benzene from the glycol dehydration unit process vent to the atmosphere are less than 0.90 megagram per year, as determined by the procedures specified in §63.772(b)(2) of this subpart.

[45CSR34, 40CFR§§63.764(a), (b), (d), (e)][FLARE]

5.1.5. No person shall cause, suffer, allow or permit emission into the open air from any source operation an in-stack sulfur dioxide concentration exceeding 2,000 parts per million by volume from existing source operations, except as provided in 45CSR§10-4.1.a though 45CSR§10-4.1.e. [45CSR§10-4.1.]

5.1.6. No person shall cause, suffer, allow or permit the emission of particles of unburned or partially burned refuse or ash from the flare which are large enough to be individually distinguished in the open air. [45CSR§6-4.5]

5.1.7. The flare, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors. [45CSR§6-4.6.]

5.1.8. The heating and dehydration boilers, on an individual basis, shall not 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, R13-3252, 4.1.3.a and 4.1.14][BLR and DEHY]

5.1.9. 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§13-5.10., 45CSR13, R13-3252, 4.1.4 ]
5.1.10. Maximum Design Heat Input. The maximum design heat input (MDHI) of the heating boiler (BLR) shall not exceed 1.26 MMBTU/hr.

[45CSR13, R13-3252, 4.1.13]

5.2. Monitoring Requirements

5.2.1. In order to demonstrate compliance with the continuous flame requirements of Section 5.1.2.g.ii the permittee shall monitor the presence or absence of a flare pilot flame using a thermocouple or any other equivalent device. Pilot flame absence while the dehydration reboiler is in operation indicates an excursion.

All manufacturer’s recommendations regarding periodic testing/checks for the proper installation and operation of the device shall be followed.

The device that detects the presence of a flame shall be calibrated, maintained, and operated in accordance with the manufacture’s specifications.

[45CSR§30-5.1.c., 40 C.F.R. § 64.6 (c)]

5.2.2. For the purposes of demonstrating compliance with the requirements of the closed vent system in Condition 5.1.1., the permittee shall conduct the following:

a. Conduct an initial visual, olfactory, and auditory inspection for defects that could result in air emissions within 180 days after issuance of this permit. 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.

b. After the initial, subsequent annual visual, olfactory, and auditory inspections shall be conducted for defects that could result in air emissions. 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.

c. Detected leaks shall be repaired in accordance with the timing stated in Condition 5.1.1.f.iii.

d. Records of such inspections shall be maintained in accordance with 3.4.2.

e. The use of the procedures listed as Alternative Methods to Method 21 (i.e. soapy water) to determine a leak or a leak has been repaired is acceptable.

[45CSR13, R13-3252, 4.2.4]

5.2.3. The permittee shall monitor the dehydration unit for equipment leaks in accordance with the following requirements:

a. Conduct an initial visual, olfactory, and auditory inspection for defects that could result in air emissions within 180 days after issuance of this permit.

b. After the completion of the initial inspection, subsequent inspections shall be conducted in accordance with the following:

i. Visual inspection of the glycol circulating pumps for visual indicators of leaking seals once per month.
ii. Visual inspection of the pressure relief device on a monthly basis.

iii. Conduct a visual, olfactory, and auditory inspection for defects that could result in air emissions within 12 months of the previous inspection of the dehydration unit.

c. Detected leaks shall be repaired in accordance with the timing stated in Condition 5.1.1.f.iii.

d. Records of such inspections and any repairs made shall be maintained in accordance with Condition 3.4.2.

e. The use of the procedures listed as Alternative Methods to Method 21 (i.e. soapy water) to determine a leak or a leak has been repaired is acceptable.

[45CSR13, R13-3252, 4.2.5]

5.2.4. In order to demonstrate compliance with the area source status, claimed within 5.1.1, 5.1.2 and 5.1.4, as well as the 1 ton per year benzene exemption provided under 5.1.4(e)(1)(ii), using GRI-GLYCalc V3 or higher, the dehydration system must be accurately defined by monitoring and recording actual annual average operating parameters associated with the dehydration system. These parameters shall be measured at least quarterly, with the exception of wet gas composition, in order to define annual average values or, if monitoring is not practical, some parameters may be assigned default values in accordance with the stipulations listed below. Annual average operating parameter, shall be interpreted as the average result of periodic monitoring recorded a number of times throughout the calendar year, which is sufficient enough to reflect annual variation. Therefore, this term is operating parameter and site dependent.

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

Note: if you are measuring and using actual wet or dry gas water content then you are also required to measure the lean glycol recirculation rate rather than using the default value.

- Natural Gas Flowrate:
  - number of days operated per month,
  - monthly throughput (MMscf/month),
  - annual daily average (MMscf/day), and
  - maximum design capacity (MMscf/day)

- Absorber temperature and pressure
- Lean glycol circulation rate
- Glycol pump type
- Flash tank temperature and pressure, if applicable
- Stripping Gas flow rate, if applicable
- Wet gas composition (upstream of the absorber – dehydration column) sampled in accordance with GPA method 2166 and analyzed consistent with GPA extended method 2286 as well as the procedures presented in the GRI-GLYCalc Technical Reference User Manual and Handbook V4.
- Wet gas water content (lbs H₂O/MMscf)
- Dry gas water content (lbs H₂O/MMscf) at a point directly after exiting the dehydration column and before any additional separation points

The following operating parameter(s) may be assigned default values when using GRI-GLYCalc:
- Dry Gas water content can be assumed to be equivalent to pipeline quality at 7 lb H₂O / MMscf.
- Wet gas water content can be assumed to be saturated
• Lean glycol water content if not directly measured may use the default value of 1.5 % water as established by GRI.
• Lean glycol circulation rate may be estimated using the recirculation ratio of 3 gal TEG / lb H₂O removed.

[45CSR§30-5.1.c.](FLARE)

5.2.5. **Proper Maintenance** – At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

[40 C.F.R §64.7(b), 45CSR§30-5.1.c.]

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

[40 C.F.R. §64.7(c), 45CSR§30-5.1.c]

5.2.7. **Documentation of Need for Improved Monitoring** – After approval of monitoring under 40 C.F.R. Part 64, if the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an identification of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the Director and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

[40 C.F.R. §64.7(e), 45CSR§30-5.1.c]

5.2.8. **Quality Improvement Plan (QIP)** – Based on the results of a determination made under 40 C.F.R. §64.7(d)(2) (permit condition 5.2.9.b), the Administrator or the Director may require the permittee to develop and implement a QIP. If a QIP is required, then it shall be developed, implemented, and modified as required according to 40 C.F.R. §§64.8(b) through (e). Refer to permit condition 5.5.3.c for the reporting required when a QIP is implemented.

[40 C.F.R. §64.8, 45CSR§30-5.1.c]

5.2.9. **Response to Excursions or Exceedances:**

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

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

[40 C.F.R. §64.7(d), 45CSR§30-5.1.c]

5.2.10. The permittee shall monitor and record the following parameters for the purpose of demonstrating compliance with Conditions 5.1.1., 5.1.2., and 5.1.3.:

a. The throughput of wet natural gas processed through the dehydration unit on a monthly basis, days the dehydration unit operated, and annual average natural gas flowrate.

b. Determine actual annual average natural gas throughput (in terms of natural gas flowrate to the glycol dehydration unit per day) by converting the annual natural gas flowrate to a daily average by dividing the annual flowrate by the number of days per year the glycol dehydration unit processed natural gas.

c. Identify any periods there was no flame present for the pilot of the flare when the dehydration unit was in operation.

d. Monitor daily and record the amount of fuel gas (supplemental fuel) introduced to the flare monthly. If such readings includes the fuel gas for the flare pilot light, then compliance with limitation of Condition 5.1.2.g.iv. is satisfied if the reading is at or exceeds the flow rate stipulated in Condition 5.1.2.g.iv. by 50 scfh.

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

[40 CFR §63.772(b)(2)(i) & 63.774(d)(1)(ii), 45CSR §30-5.1.c]

f. Records of such monitoring shall be maintained in accordance with Condition 3.4.2.

[45CSR13, R13-3252, 4.2.1]

5.2.11. 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 5.1.8. Method 9 shall be conducted in accordance with 40 CFR 60 Appendix A.

[45CSR13, R13-3252, 4.2.6; 45CSR§30-5.1.c] (BLR and DEHY)

5.3. Testing Requirements

5.3.1. For the purpose of demonstrating proper operation of the flare, the permittee shall conduct a visible emission observation using Section 11 of Method 22 for one hour once every calendar quarter in which the dehydration unit operates with the first observation being conducted within 90 days after issuance of this permit and subsequent observations conducted once every calendar quarter thereafter. If during the first 30 minutes of the observation there were no visible emissions observed, the permittee may stop the observation.
If at the end of the observation and visible emission were observed for more than 2.5 minutes, then the permittee shall follow manufacturer’s repair instructions, if available or best combustion engineering practice as outlined in the unit inspection and maintenance plan. To return the flare to compliant operation, the permittee shall repeat the visible emission observation. Records of such monitoring and repair activities shall be maintained in accordance with Condition 3.4.2.

5.3.2. If the permittee elects to reestablish the minimum amount of fuel gas (supplemental fuel) as listed in Condition 5.1.2.g.iv., the permittee shall conduct a flare compliance assessment to demonstrate compliance with the flare requirements of Condition 5.1.2. This compliance assessment testing shall be conducted in accordance with Test Method 18 for organics and Test Method 2, 2A, 2C, or 2D in appendix A to 40 CFR Part 60, as appropriate, and in accordance with Condition 3.3.1. of this permit. Also, Test Method 18 may require the permittee to conduct Test Method 4 in conjunction with Test Method 18. During such testing, the dehydration unit shall be operating that would yield the lowest heat content from the still vent. Records of such assessment shall be maintained in accordance with Condition 3.4.2.

5.3.3. Within the third year of this permit term, the permittee shall determine the composition of the wet natural gas by sampling in accordance with GPA Method 2166 and analyzing according to extended GPA Method 2286 analysis as specified in the GRI-GLYCalc V3 or higher Technical Reference User Manual and Handbook. As specified in the handbook, the permittee shall sample the wet gas stream at a location prior to the glycol dehydration contactor column, but after any type of separation device, in accordance with GPA method 2166. The permittee may utilize other equivalent methods provided they are approved in advance by DAQ as part of a testing protocol. If alternative methods are proposed, a test protocol shall be submitted for approval no later than 60 days before the scheduled test date.

5.3.4. The following testing and compliance provisions of Part 63 Subpart HH National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities are applicable to the facility:

§ 63.772 Test methods, compliance procedures, and compliance demonstrations.

(b) Determination of glycol dehydration unit flowrate or benzene emissions. The procedures of this paragraph shall be used by an owner or operator to determine glycol dehydration unit natural gas flowrate or benzene emissions to meet the criteria for an exemption from control requirements under §63.764(e)(1) (requirement 5.1.4).

(2) The determination of actual average benzene emissions from a glycol dehydration unit shall be made using the procedures of either paragraph (b)(2)(i) or (b)(2)(ii) of this requirement. Emissions shall be determined either uncontrolled, or with federally enforceable controls in place.

(i) The owner or operator shall determine actual average benzene emissions using the model GRI-GLYCalc™, Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalc™ Technical Reference Manual. Inputs to the model shall be representative of actual operating conditions of the glycol dehydration unit.
5.3.5. For the purpose of demonstrating compliance with Condition 5.1.2.f., the permittee shall conduct gas sampling at a point that is representative of the incoming natural gas to the facility and analyzing the Sample to determine the hydrogen sulfide content of the sample. At a minimum, such sampling and analysis shall be conducted once per calendar year. Records of such monitoring shall be maintained in accordance with Condition 3.4.2. of this permit.

[45 CSR §10-8.3.a., 45CSR13, R13-3252, 4.2.2]

5.3.6. Compliance with the visible emission requirements of permit condition 5.1.8. 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 5.1.8. Continuous opacity monitors shall not be required on fuel burning units which employ wet scrubbing systems for emission control. [45CSR§2-3.2., 45CSR13, R13-3252, 4.3.4](BLR and DEHY)

5.4. Recordkeeping Requirements

5.4.1. For the purpose of demonstrating compliance with Sections 5.1.2.g.ii and 5.2.1, the permittee shall maintain records of the times and duration of all periods which the pilot flame was absent while the dehydration reboiler was in operation.

[45CSR§30-5.1.c., 40 C.F.R. § 64.6 (c)](FLARE)

5.4.2. For the purpose of documenting compliance with the emission limitations, HAP major source thresholds, as well as the 1 ton per year benzene exemption, the permittee shall maintain records of all monitoring data, wet gas sampling, and annual GLYCalc emission estimates.

[45CSR§30-5.1.c](FLARE)

5.4.3. General recordkeeping requirements for CAM:

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

b. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.

[40 C.F.R. §64.9 (b)]

5.4.4. An owner or operator of a glycol dehydration unit that meets the exemption criteria in 40 C.F.R. §63.764(e)(1)(ii) shall maintain the records of the actual average benzene emissions (in terms of benzene emission per year) as determined in accordance with §63.772(b)(2).

[40 C.F.R. §63.774(d)(1)(ii);45CSR 34](FLARE)
5.4.5. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.

[45CSR13, R13-3252, 4.4.3]

5.4.6. The permittee shall maintain records of the analysis that is used to indicate compliance is in accordance with items a. b. and g.iii. of Condition 5.1.2. Such records shall include the source of data used in the analysis and be maintained in accordance with Condition 3.4.2.

[45CSR34, 40 CFR 63.774(d)(2)(ii), 45CSR13, R13-3252, 4.4.5]

5.4.7. The permittee shall maintain records of all monitoring data required by permit condition 5.2.11 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, R13-3252, 4.4.6; 45CSR§30-5.1.c] (BLR and DEHY)

5.5. **Reporting Requirements**

5.5.1. Any and all malfunctions of the dehydrator flare shall be documented in writing. The following information must be documented for each malfunction:

a. The equipment involved in the malfunction and the associated cause.

b. Steps taken to correct the malfunction.

c. The steps taken to minimize the emissions during the malfunction.

d. The duration of the malfunction.

e. The increase in emissions during the malfunction.

f. Steps taken to prevent a similar malfunction in the future.

g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

These records shall be maintained on site for the duration of the operation.

[45CSR§30-5.1.c and 40 C.F.R. § 64.7 (d), 45CSR13, R13-3252, 4.4.4]

5.5.2. The permittee shall submit by March 31st of the following year, an emission summary for the dehydration unit (TEG), which incorporates the wet gas testing results required by 5.3.3. The permittee shall also supply a copy of the most recent report within the facility’s subsequent Title V renewal application. These reports shall include an actual annual average emission estimate for the calendar year of the sample, modeled using GLYCalc V3 or higher software, which incorporates site specific parameters measured in accordance with 5.2.4. The permittee shall also supply all supporting documentation where site specific operating parameters...
are tabulated to define the annual average values. The report shall incorporate a copy of the lab analysis obtained from the wet gas testing as well as a description of how and where the sample was taken. The report shall include a reference to all sampling and analytical methods utilized. Additionally, the permittee shall identify where the compressor station is located with respect to a custody transfer point, which is referenced within 40 C.F.R. 63, subpart HH as the point where the gas enters into a natural gas transmission and/or storage pipeline. This report shall be signed by a responsible official upon submittal.

[45CSR§30-5.1.c.] (FLARE)

5.5.3. General reporting requirements for CAM. A report for monitoring under 40 C.F.R. Part 64 shall include, at a minimum, the information required in Sections 3.5.6 and 3.5.8 and the following information as applicable:

a. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

b. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

c. A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

[40 C.F.R. §64.9(a)(2)]

5.5.4. The permittee shall report to the Director any leaks of the closed vent system that were not repaired in accordance with Condition 5.1.1. Such report shall be included with the facility’s semiannual or annual compliance report as required in 45 CSR 30.

[45CSR13, R13-3252, 4.5.1]

5.5.5. 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, R13-3252, 4.5.3; 45CSR§30-5.1.c] (BLR and DEHY)
5.6. Compliance Plan

5.6.1. None.

5.7. CAM Plan Summary for Flare (FLARE)

<table>
<thead>
<tr>
<th>Indicator No. 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Indicator</td>
<td>Presence of Flame (permit condition 5.1.2.g.ii.)</td>
</tr>
<tr>
<td>Monitoring Approach</td>
<td>Use of thermocouple, infrared device, or equivalent (permit condition 5.2.1.).</td>
</tr>
<tr>
<td>II. Indicator Range or Designated Condition</td>
<td>Indicator provides data regarding presence or absence of flame.</td>
</tr>
<tr>
<td>III. Performance Criteria</td>
<td></td>
</tr>
<tr>
<td>A. Data Representativeness</td>
<td>A thermocouple, infrared detector, pilot eye, or equivalent device will be installed to continuously monitor the presence of a pilot flame (permit condition 5.2.1.).</td>
</tr>
<tr>
<td>B. Verification of Operational Status</td>
<td>All manufacturer’s recommendations regarding periodic testing/checks for the proper installation and operation of the pilot eye device will be followed (permit condition 5.2.1.).</td>
</tr>
<tr>
<td>C. QA/QC Practices and Criteria</td>
<td>For the device that detects the presence of a flame, calibration, maintenance and operation will be conducted in accordance with manufacturer’s specifications (permit condition 5.2.1.).</td>
</tr>
<tr>
<td>D. Monitoring Frequency</td>
<td>Continuously</td>
</tr>
<tr>
<td>Data Collection Procedures</td>
<td>Records of all flame outs or loss of pilot eye, along with any applicable corrective actions will be documented and maintained (permit condition 5.4.3 and 5.5.1.).</td>
</tr>
<tr>
<td>Data averaging periods</td>
<td>No averaging periods</td>
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