

*West Virginia Department of Environmental Protection
Division of Air Quality*

Joe Manchin, III
Governor

Stephanie R. Timmermeyer
Cabinet Secretary

Permit to Operate



*Pursuant to
Title V
of the Clean Air Act*

Issued to:
Equitrans, L.P.
Copley Run Compressor Station #70
R30-04100009-2007

John A. Benedict
Director

Issued: June 15, 2007 • Effective: June 29, 2007
Expiration: June 15, 2012 • Renewal Application Due: December 15, 2011

Permit Number: **R30-04100009-2007**
Permittee: **Equitrans, L.P.**
Facility Name: **Copley Run Compressor Station #70**
Mailing Address: **Route 4 Box 640 Weston, WV 26452**

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: Weston, Lewis County, West Virginia
Telephone Number: 304-269-6429
Type of Business Entity: Corporation
Facility Description: Natural Gas Transmission Facility
SIC Codes: 4922
UTM Coordinates: 541.30 km Easting • 4314.80 km Northing • Zone 17

Permit Writer: Bobbie Scroggie

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

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

Table of Contents

1.0.	Emission Units and Active R13, R14, and R19 Permits	4
1.1.	Emission Units	4
1.2.	Active R13, R14, and R19 Permits	4
2.0.	General Conditions	5
2.1.	Definitions	5
2.2.	Acronyms	5
2.3.	Permit Expiration and Renewal	6
2.4.	Permit Actions	6
2.5.	Reopening for Cause	6
2.6.	Administrative Permit Amendments	7
2.7.	Minor Permit Modifications	7
2.8.	Significant Permit Modification	7
2.9.	Emissions Trading	7
2.10.	Off-Permit Changes	7
2.11.	Operational Flexibility	8
2.12.	Reasonably Anticipated Operating Scenarios	8
2.13.	Duty to Comply	9
2.14.	Inspection and Entry	9
2.15.	Schedule of Compliance	9
2.16.	Need to Halt or Reduce Activity not a Defense	10
2.17.	Emergency	10
2.18.	Federally-Enforceable Requirements	11
2.19.	Duty to Provide Information	11
2.20.	Duty to Supplement and Correct Information	11
2.21.	Permit Shield	11
2.22.	Credible Evidence	12
2.23.	Severability	12
2.24.	Property Rights	12
2.25.	Acid Deposition Control	12
3.0.	Facility-Wide Requirements	13
3.1.	Limitations and Standards	13
3.2.	Monitoring Requirements	14
3.3.	Testing Requirements	14
3.4.	Recordkeeping Requirements	14
3.5.	Reporting Requirements	15
3.6.	Compliance Plan	17
3.7.	Permit Shield	17
4.0.	Source-Specific Requirements - Indirect Heat Exchangers	18
4.1.	Limitations and Standards	18
4.2.	Monitoring Requirements	18
4.3.	Testing Requirements	18
4.4.	Recordkeeping Requirements	18
4.5.	Reporting Requirements	18
4.6.	Compliance Plan	18

5.0.	Source-Specific Requirements - Reciprocating Engines/Integral Compressors	19
5.1.	Limitations and Standards	19
5.2.	Monitoring Requirements	19
5.3.	Testing Requirements	19
5.4.	Recordkeeping Requirements	19
5.5.	Reporting Requirements	19
5.6.	Compliance Plan	19
6.0.	Source-Specific Requirements - Dehy Flare and Dehy	20
6.1.	Limitations and Standards	20
6.2.	Monitoring Requirements	23
6.3.	Testing Requirements	23
6.4.	Recordkeeping Requirements	24
6.5.	Reporting Requirements	26
6.6.	Compliance Plan	26

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

1.1 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
001-01	C-001	Reciprocating Engine/Integral Compressor; Cooper Bessemer Model GMVH10; Serial #48769	1981	2250 HP	N/A
001-02	C-002	Reciprocating Engine/Integral Compressor; Cooper Bessemer Model GMVH6; Serial #48771	1981	1350 HP	N/A
001-03	C-003	Reciprocating Engine/Integral Compressor; Cooper Bessemer Model GMVH; Serial #48772	1981	1350 HP	N/A
001-04	C-004	Reciprocating Engine/Integral Compressor; Cooper Bessemer Model GMVH8; Serial #48770	1980	1800 HP	N/A
001-05	C-005	Reciprocating Engine/Integral Compressor; Cooper Bessemer Model GMVHR; Serial #49126	1993	1350 HP	N/A
G-001	G-001	Natural Gas Fired Electric Generator; International Harvester Model V549; Serial #174686	1987	2.2 MMBtu/hr	N/A
G-002	G-002	Natural Gas Fired Electric Generator; Cummins Model GTA12; Serial #25183763	1993	2.2 MMBtu/hr	N/A
003-01	003-01	Natural Gas Fired Heating Boiler; Ajax Model WG-675 D; Serial # 81-33656	1981	0.675 MMBtu/hr	N/A
003-02	003-02	Natural Gas Fired Hot Water Heater; WL Jackson Mfg. Co. Model G 030 05; Serial # 66552-1080	1987	0.03 MMBtu/hr	N/A
004-01	Dehy Flare	Triethylene Glycol dehydration unit; Natco Model 5 GR-3000-TX10; consists of a flare and a natural gas fired reboiler (Dehy Boiler #1)	1992	0.65 MMBtu/hr	004-01 Dehy Flare
004-02	Dehy	Triethylene Glycol unit; Natco Model GS 3100E; consists of a natural gas fired reboiler (Dehy Boiler #2) and an indirect heater.	1992	1.67 MMBtu/hr and 1.2 MMBtu/hr	N/A
Copley 1	Copley 1	Triethylene Glycol horizontal fixed roof storage tank	1992	4000 gallon	N/A
Copley 2	Copley 2	Pipeline Condensate horizontal fixed roof storage tank	1992	20000 gallon	N/A
Copley 3	Copley 3	Crude Oil horizontal fixed roof storage tank	1992	2000 gallon	N/A
Copley 4	Copley 4	Methanol horizontal fixed roof storage tank	1992	2000 gallon	N/A
Copley 5	Copley 5	Used Oil horizontal fixed roof storage tank	1992	7500 gallon	N/A
Copley 6	Copley 6	Ambitrol horizontal fixed roof storage tank	1992	3000 gallon	N/A

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 (R13-2397). The current applicable version of such permit is listed below.

Permit Number: R13-2397B Date of Issuance: May 7, 2007

2.0. General Conditions

2.1. Definitions

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

2.2. Acronyms

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

2.3. Permit Expiration and Renewal

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

2.4. Permit Actions

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

2.5. Reopening for Cause

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

2.6. Administrative Permit Amendments

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

2.7. Minor Permit Modifications

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

2.8. Significant Permit Modification

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

2.9. Emissions Trading

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

2.10. Off-Permit Changes

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

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

[45CSR§30-5.9]

2.11. Operational Flexibility

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

[45CSR§30-5.8]

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

[45CSR§30-5.8.a.]

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

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

[45CSR§30-5.8.c.]

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

[45CSR§30-2.39]

2.12. Reasonably Anticipated Operating Scenarios

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

- a. Contemporaneously with making a change from one operating scenario to another, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating and to document the change in reports submitted pursuant to the terms of this permit and 45CSR30.
- b. The permit shield shall extend to all terms and conditions under each such operating scenario; and
- c. The terms and conditions of each such alternative scenario shall meet all applicable requirements and the requirements of 45CSR30.
[45CSR§30-5.1.i.]

2.13. Duty to Comply

- 2.13.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
[45CSR§30-5.1.f.1.]

2.14. Inspection and Entry

- 2.14.1. The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:
 - a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
 - d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.
[45CSR§30-5.3.b.]

2.15. Schedule of Compliance

- 2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:
 - a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

- b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.
[45CSR§30-5.3.d.]

2.16. Need to Halt or Reduce Activity not a Defense

- 2.16.1. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.
[45CSR§30-5.1.f.2.]

2.17. Emergency

- 2.17.1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
[45CSR§30-5.7.a.]
- 2.17.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of 45CSR§30-5.7.c. are met.
[45CSR§30-5.7.b.]
- 2.17.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - b. The permitted facility was at the time being properly operated;
 - c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
 - d. Subject to the requirements of 45CSR§30-5.1.c.3.C.1, the permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice, report, and variance request fulfills the requirement of 45CSR§30-5.1.c.3.B. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
[45CSR§30-5.7.c.]
- 2.17.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
[45CSR§30-5.7.d.]

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

2.18. Federally-Enforceable Requirements

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

2.19. Duty to Provide Information

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

2.20. Duty to Supplement and Correct Information

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

2.21. Permit Shield

- 2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and are specifically identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof.
[45CSR§30-5.6.a.]
- 2.21.2. Nothing in this permit shall alter or affect the following:
- a. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; or
 - b. The applicable requirements of the Code of West Virginia and Title IV of the Clean Air Act (Acid Deposition Control), consistent with § 408 (a) of the Clean Air Act.

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

2.22. Credible Evidence

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

2.23. Severability

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

2.24. Property Rights

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

2.25. Acid Deposition Control

- 2.25.1. Emissions shall not exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act (Acid Deposition Control) or rules of the Secretary promulgated thereunder.
 - a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.
 - b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.
 - c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.
[45CSR§30-5.1.d.]
- 2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA.
[45CSR§30-5.1.a.2.]

3.0. Facility-Wide Requirements

3.1. Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency 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, suffer, allow or permit 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 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). A copy of this notice is required to be sent to the USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health.
[40 C.F.R. 61 and 45CSR15]
- 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]

3.2. 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.

[WV Code § 22-5-4(a)(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. and 45CSR13 - Permit No. R13-2397 - Condition 4.4.1.]

- 3.4.2. **Retention of records.** The permittee shall maintain records of all information (including monitoring data, support information, reports, and notifications) required by this permit recorded in a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche.

[45CSR§30-5.1.c.2.B. and 45CSR13 - Permit No. R13-2397 - Condition 3.4.1.]

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

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

3.5. Reporting Requirements

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

[45CSR§30-4.4. and 5.1.c.3.D.]

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

[45CSR§30-5.1.c.3.E.]

- 3.5.3. 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, mailed first class, or by private carrier with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:

Director
WVDEP
Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone: 304/926-0475
FAX: 304/926-0478

If to the US EPA:

Associate Director
Office of Enforcement and Permits Review
(3AP12)
U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

- 3.5.4. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality.
[45CSR§30-8.]
- 3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification.
[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.
[45CSR§30-5.1.c.3.A.]
- 3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.
- 3.5.8. **Deviations.**
- a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:
1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.
 2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.

3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

[45CSR§30-5.1.c.3.C.]

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

[45CSR§30-5.1.c.3.B.]

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

[45CSR§30-4.3.h.1.B.]

3.6. Compliance Plan

- 3.6.1. None

3.7. Permit Shield

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

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

- a. 40 CFR part 60 Subpart Dc - The boilers at Copley Run station are below 10 mmBtu/hr.
- b. 40 CFR part 60 Subpart GG - There are no turbines at Copley Run station.
- c. 40 CFR part 60 Subparts K, Ka - All tanks at Copley Run station are less than 40,000 gallons in capacity.
- d. 40 CFR part 60 Subpart KKK - Copley Run station is not engaged in the extraction of natural gas liquids from field gas or in the fractionation of mixed natural gas liquids to natural gas products.
- e. 40 CFR part 60 Subpart LLL - There are no sweetening units at Copley Run station.
- f. 40 CFR part 60 Subpart IIII - The engines at Copley Run Station are not stationary compression ignition (CI) internal combustion engines (ICE).
- g. 40 CFR part 63 Subpart HH - Copley Run station is not a production facility.
- h. 45CSR27 - Natural gas is included as a petroleum product and contains less than 5% benzene by weight. 45CSR§27-2.4 exempts equipment “used in the production and distribution of petroleum products providing that such equipment does not produce or contact materials containing more than 5% benzene by weight.”

4.0. Source-Specific Requirements [Indirect Heat Exchangers: G-001, G-002, 003-01, 003-02]

4.1. Limitations and Standards

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

4.2. Monitoring Requirements

- 4.2.1. None

4.3. Testing Requirements

- 4.3.1. None

4.4. Recordkeeping Requirements

- 4.4.1. None

4.5. Reporting Requirements

- 4.5.1. None

4.6. Compliance Plan

- 4.6.1. None

5.0. Source-Specific Requirements [Reciprocating Engines/Integral Compressors: C-001 through C-005]

5.1. Limitations and Standards

5.1.1. The facility shall employ a Cooper-Bessemer GMVR Reciprocating Engine/Integral Compressor, identified as C-005. The operation of this engine shall not exceed the following maximum operating and emission limitations.

- a. The engine shall not operate more than 7,709 hours per year; and
- b. Emissions from the engine shall not exceed the maximum hourly and annual emission limits set forth in Table 5.1.1.b.

Table 5.1.1.b. – Emission Limits for Compressor Engine CE-5		
Pollutant	Hourly (lb/hr)	Annual (TPY)
Oxides of Nitrogen	10.0	39
Carbon Monoxide	3.0	11.6
VOCs	0.2	0.77

[45CSR13 - Permit No. R13-2397 - Condition 4.1.1.]

5.2. Monitoring Requirements

5.2.1. None

5.3. Testing Requirements

5.3.1. None

5.4. Recordkeeping Requirements

5.4.1. The permittee shall maintain a record of the hours of operation of compressor engine C-005 to demonstrate compliance with Section 5.1.1. of this permit. Said records shall be maintained in accordance with 3.4.2. of this permit.

[45CSR13 - Permit No. R13-2397 - Condition 4.4.4.]

5.5. Reporting Requirements

5.5.1. None

5.6. Compliance Plan

5.6.1. None

6.0. Source-Specific Requirements [Dehy Flare and Dehy: 004-01 and 004-02]

6.1. Limitations and Standards

- 6.1.1. No person shall cause, suffer, allow or permit particulate matter to be discharged from any incinerator into the open air in excess of the quantity determined by the use of the following formula:

$$\text{Emissions (lb/hr)} = F \times \text{Incinerator Capacity (tons/hr)}$$
where the factor, F, is as indicated in the table below:

<u>Incinerator Capacity</u>	<u>F Factor</u>
Less than 15,000 lbs/hr	5.43
15,000 lbs/hr or greater	2.72

*Calculation for PM Emissions: 5.43 * 101.12 lb/hr * 1 ton/2000 lbs = 0.27 lb/hr*
[45CSR§6-4.1. (004-01)]

- 6.1.2. No person shall cause, suffer, allow or permit emission of smoke into the atmosphere from any incinerator which is twenty (20%) percent opacity or greater.
[45CSR§6-4.3 (004-01)]
- 6.1.3. No person shall cause, suffer, allow or permit the emission of particles of unburned or partially burned refuse or ash from any incinerator which are large enough to be individually distinguished in the open air.
[45CSR§6-4.5 (004-01)]
- 6.1.4. Incinerators, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors.
[45CSR§6-4.6. (004-01)]
- 6.1.5. The facility shall employ one NATCO triethylene glycol dehydration unit identified as 004-01 (referred to as Dehy #1). The operation of this unit shall not exceed the following operating and emission limitations:
- The throughput of wet natural gas through the glycol dehydration unit/still column shall not exceed 46 MMscf/day;
 - The reboiler shall have a maximum design heat input of 1.5 MMBtu/hr and be limited to fuel with natural gas;
 - The vapors/overheads from the still column and flash tank shall be routed through a closed-vent system to the flare (Dehy Flare) at all times when there is a potential that vapors (emissions) can be generated from the still column and/or flash tank;
 - The flare identified as Dehy Flare shall be steam-assisted, or non-assisted;
 - The Dehy Flare shall be operated at all times when emissions may be vented to it;
 - The Dehy Flare shall be designed for and operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours;
 - The Dehy Flare shall be operated with a flame present at all times;

- h. Flares shall be used only with the net heating value of the gas being combusted at 11.2 MJ/scm (300 Btu/scf) or greater if the flare is steam-assisted or air-assisted; or with the net heating value of the gas being combusted at 7.45 MJ/scm (200 Btu/scf) or greater if the flare is non-assisted. The net heating value of the gas being combusted in a flare shall be calculated using the following equation:

$$H_T = K \sum_{i=1}^n C_i H_i$$

Where:

H_T = Net heating value of the sample, MJ/scm; where the net enthalpy per mole of off gas is based on combustion at 25°C and 760 mm Hg, but the standard temperature for determining the volume corresponding to one mole is 20°C.

K = Constant =

$$1.740 \times 10^{-7} \left(\frac{1}{ppmv} \right) \left(\frac{\text{g-mole}}{\text{scm}} \right) \left(\frac{\text{MJ}}{\text{kcal}} \right)$$

where the standard temperature for (g-mole/scm) is 20°C.

C_i = Concentration of sample component i in ppmv on a wet basis, which may be measured for organics by Test Method 18, but is not required to be measured using Method 18 (unless designated by the Director).

H_i = Net heat of combustion of sample component i, kcal/g-mole at 25°C and 760 mm Hg. The heats of combustion may be determined using ASTM D2382-76 or 88 or D4809-95 if published values are not available or cannot be calculated.

n=Number of sample components.

- i. Steam-assisted and nonassisted flares shall be designed for and operated with an exit velocity less than 18.3 m/sec (60 ft/sec), except as provided by Sections 6.1.5.j. and 6.1.5.k. of this permit. The actual exit velocity of a flare shall be determined by dividing by the volumetric flow rate of gas being combusted (in units of emission standard temperature and pressure), by the unobstructed (free) cross-sectional area of the flare tip, which may be determined by Test Method 2, 2A, 2C, or 2D in appendix A to 40 CFR part 60, as appropriate, but is not required to be determined using these Methods (unless designated by the Director);
- j. Steam-assisted and nonassisted flares designed for and operated with an exit velocity, as determined by the method specified in Section 6.1.5.i. of this permit, equal to or greater than 18.3 m/sec (60 ft/sec) but less than 122 m/sec (400 ft/sec), are allowed if the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1,000 Btu/scf); and
- k. Steam-assisted and nonassisted flares designed for and operated with an exit velocity, as determined by the method specified in Section 6.1.5.i. of this permit, less than the velocity V_{max} , as determined by the method specified in this paragraph, and less than 122 m/sec (400 ft/sec) are allowed. The maximum permitted velocity, V_{max} , for flares complying with this paragraph shall be determined by the following equation:

$$\text{Log}_{10}(V_{max}) = (H_T + 28.8) / 31.7$$

Where:

V_{max} = Maximum permitted velocity, m/sec.

28.8 = Constant.

31.7 = Constant.

H_T = The net heating value as determined in Section 6.1.5.h. of this permit.

1. Emissions from the Dehy Flare shall not exceed the maximum hourly and annual emission limits set forth in Table 6.1.5.1.

Table 6.1.5.1. –Dehy Flare Emissions		
Pollutant	Emission Rates	
	Hourly (lb/hr)	Annual (TPY)
Oxides of Nitrogen	0.1	0.4
Carbon Monoxide	0.3	1.3
VOC	1.6	7.2
Benzene	0.1	0.3
Total HAPs (includes benzene)	0.7	3.0

[45CSR13 - Permit No. R13-2397 - Condition 4.1.2.]

- 6.1.6. The facility shall employ one NATCO, model GS 3100E dehydration unit identified as 004-02 (referred as Dehy #2). The operation of this unit shall not exceed the following operating and emission limitations:

- a. The throughput of wet natural gas through the glycol dehydration unit/still column shall not exceed 140 MMscf/day;
- b. The vapors/overheads from the still column and flash tank shall be routed through a closed-vent system to the reboiler at all times when there is a potential that vapors (emissions) can be generated from the still column and/or flash tank;
- c. The reboiler shall be operated at all times when there is a potential of vapors (emissions) to be generated from the flash tank and/or still column;
- d. The reboiler shall only be fired with vapors from the still column and flash tank, and natural gas may be used as supplemental fuel;
- e. The 1.2 MMBtu/hr indirect heater shall only be fired with natural gas;
- f. The vapors/overheads from the still column and flash tank shall be introduced into the flame zone of the reboiler.
- g. Emissions from the reboiler shall not exceed the maximum hourly and annual emission limits set forth in Table 6.1.6.g.

Table 6.1.6.g. – Reboiler Emission Limits (004-002)		
Pollutant	Emission Limits	
	Hourly (lb/hr)	Annual (TPY)
Oxides of Nitrogen	0.28	1.2
Carbon Monoxide	0.14	0.6
VOC	3.4	15.1
Benzene	0.11	0.5
Total HAPs (includes benzene)	1.8	8.1

[45CSR13 - Permit No. R13-2397 - Condition 4.1.3.]

h. The reboiler and indirect heater, on an individual basis, shall not exhibit visible emissions into the open air greater than ten (10) percent opacity based on a six-minute block average. Continuous compliance with this requirement is met by complying with fuel restrictions in Sections 6.1.6.d. and 6.1.6.e. of this permit. **[45CSR13 - Permit No. R13-2397 - Condition 4.1.3.h. and 45CSR§2-3.1.]**

6.1.7. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment 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 as set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary. **[45CSR13 - Permit No. R13-2397 - Condition 4.1.4. and 45CSR§13-5.11.]**

6.2. Monitoring Requirements

6.2.1. The permittee must input operating parameters that provide the highest HAP emissions when using GRI-GLYCalc V4 or higher. If the permittee does not want to use operating parameters that provide the highest HAP emissions, then the permittee may monitor the glycol dehydration unit while conducting the wet gas sampling requirements in Section 6.3.1. of this permit. The permittee may use actual monitored and recorded operating parameters associated with the dehydration system, in order to demonstrate compliance with the emission limits of Sections 6.1.5. and 6.1.6. of this permit using GRI-GLYCalc V4 or higher, or may use operating parameters that provide the highest HAP emissions.

As an alternative to the “Gas Analysis and Process Data”, emission estimating method discussed above, the permittee may elect to incorporate the following alternative calculation methods as provided by GLYCalc V4: [Gas Analysis and ARL Method (R/L+Gas)] or the [GRI ARL Method (for TEG units only)]

These alternative methods can be used to demonstrate compliance with Sections 6.1.5. and 6.1.6. of this permit, provided emissions are 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). Additionally, the alternative methods shall also adhere to the recommendations for sampling and analysis of the wet glycol stream as presented in the GLYCalc Technical Reference User Manual and Handbook V4 when applicable.

[45CSR13 - Permit No. R13-2397 - Condition 4.2.1.]

6.2.2. In order to demonstrate compliance with the continuous flame requirements of Section 6.1.5.g. of this permit, the permittee shall monitor the presence or absence of a flare pilot flame using a thermocouple or any other equivalent device.

[45CSR13 - Permit No. R13-2397 - Condition 4.2.2.]

6.3. Testing Requirements

6.3.1. The permittee shall demonstrate compliance with Sections 6.1.5., 6.1.6., and 6.4.9. of this permit by using GLYCalc Version 4.0 or higher. The permittee shall sample in accordance with GPA Method 2166 and analyze the samples utilizing the extended GPA Method 2286 as specified in the GRI-GLYCalc V4 Technical Reference User Manual and Handbook. 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. As specified in the handbook, the permittee shall sample the wet gas stream at a location prior to the glycol dehydration column, but after any type of separation device, in accordance with GPA method 2166. Compliance with this condition demonstrates compliance with 40 CFR § 63.1282(a)(2)(i).

[45CSR13 - Permit No. R13-2397 - Condition 4.3.1. and 40 CFR § 63.1282(a)(2)(i)]

6.3.2. In order to demonstrate compliance with the flare opacity requirements of Section 6.1.5.f. of this permit, the permittee shall conduct a Method 22 opacity test for at least two hours. This test shall demonstrate no visible emissions are observed for more than a total of 5 minutes during any 2 consecutive hour periods using 40CFR60 Appendix A Method 22. The permittee shall conduct this test within thirty (30) days of issuance of Permit R13-2397B (issued May 7, 2007). The visible emission checks shall determine the presence or absence of visible emissions. At a minimum, the observer must be trained and knowledgeable regarding the effects of background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor) on the visibility of emissions. This training may be obtained from written materials found in the References 1 and 2 from 40 CFR part 60, appendix A, Method 22 or from the lecture portion of 40 CFR part 60, appendix A, Method 9 certification course. Said records of such testing shall be maintained in accordance with Section 3.4.2. of this permit.

[45CSR13 - Permit No. R13-2397 - Condition 4.3.2.]

6.3.3. In order to demonstrate compliance with the flare design criteria requirements of Section 6.1.5.(i., j., and k.) of this permit, the permittee shall conduct a flare design evaluation demonstrating compliance with the criteria set forth in Section 6.1.5. of this permit. The flare design evaluation shall include, but not be limited to, net heat value calculations, exit (tip) velocity calculations, and all supporting concentration calculations. The permittee may elect to demonstrate compliance with the flare design criteria requirements of Section 6.1.5. of this permit by complying with the compliance assessment testing requirements of Section 6.3.4. of this permit.

[45CSR13 - Permit No. R13-2397 - Condition 4.3.3.]

6.3.4. The permittee shall conduct a flare compliance assessment to demonstrate compliance with the flare requirements of Section 6.1.5 of this permit and the flare design evaluation within 180 days of issuance of Permit R13-2397B (issued May 7, 2007). 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 Section 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.

[45CSR13 - Permit No. R13-2397 - Condition 4.3.4.]

6.4. Recordkeeping Requirements

6.4.1. **Record of Maintenance of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0 of this permit, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.

[45CSR13 - Permit No. R13-2397 - Condition 4.4.2.]

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

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

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

- e. The cause of the malfunction.
 - f. Steps taken to correct the malfunction.
 - g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.
[45CSR13 - Permit No. R13-2397 - Condition 4.4.3.]
- 6.4.3. The permittee shall maintain a record of the wet natural gas throughput through the dehydration systems to demonstrate compliance with Sections 6.1.5.a. and 6.1.6.a. of this permit. Said records shall be maintained in accordance with Section 3.4.2. of this permit.
[45CSR13 - Permit No. R13-2397 - Condition 4.4.5.]
- 6.4.4. For the purpose of demonstrating compliance with Sections 6.1.5.g and 6.2.2. of this permit, the permittee shall maintain records of the times and duration of all periods which the pilot flame was absent. Said records shall be maintained in accordance with Section 3.4.2. of this permit.
[45CSR13 - Permit No. R13-2397 - Condition 4.4.6.]
- 6.4.5. For the purpose of demonstrating compliance with Sections 6.1.5. and 6.3.3. of this permit, the permittee shall maintain a record of the flare design evaluation. The flare design evaluation shall include, but not be limited to, net heat value calculations, exit (tip) velocity calculations, and all supporting concentration calculations. Said records shall be maintained in accordance with Section 3.4.2. of this permit.
[45CSR13 - Permit No. R13-2397 - Condition 4.4.7.]
- 6.4.6. For the purpose of demonstrating compliance with the requirements set forth in Sections 6.1.4. and 6.3.4. of this permit, the permittee shall maintain records of testing conducted in accordance with Section 6.3.4. of this permit. Said records shall be maintained in accordance with Section 3.4.2. of this permit.
[45CSR13 - Permit No. R13-2397 - Condition 4.4.8.]
- 6.4.7. For the purpose of demonstrating compliance with the requirements set forth in Section 6.3.1. of this permit and the limits set forth in Sections 6.1.4. and 6.1.5. of this permit, the permittee shall maintain records of the wet gas sampling and analysis conducted, as required, during the initial compliance determination or subsequent compliance determinations. Said records shall be maintained in accordance with Section 3.4.2. of this permit.
[45CSR13 - Permit No. R13-2397 - Condition 4.4.9.]
- 6.4.8. For the purpose of demonstrating compliance with Sections 6.1.4. and 6.1.5. of this permit, the permittee shall maintain a record of the wet gas sampling required by Section 6.3.1. of this permit. This record shall include a potential to emit (PTE) HAP estimate modeled using GlyCalc Version 4 or higher software, which incorporates site specific parameters measured in accordance with Section 6.2.1. of this permit. The emission estimate shall also incorporate a copy of the lab analysis obtained from the wet gas sampling as well as a description of how and where the sample was taken. This record shall include a reference to all sampling and analytical methods utilized and identification of where the compressor station is located before or after the liquids extraction plant. Said records shall be maintained in accordance with Section 3.4.2. of this permit.
[45CSR13 - Permit No. R13-2397 - Condition 4.4.10.]
- 6.4.9. An owner or operator that is exempt from control requirements under 40 CFR § 63.1274(d) shall maintain records of the actual average benzene emissions (in terms of benzene emissions per year), as determined in accordance with Section 6.3.1. of this permit, for each glycol dehydration unit.
[40 CFR § 63.1284(d) and 45CSR34]

6.5. Reporting Requirements

- 6.5.1. The permittee shall submit a report of the wet gas sampling required by Section 6.3.1 of this permit within 90 days of conducting the sampling of the wet gas stream. This report shall include a potential to emit (PTE) estimate modeled using GlyCalc Version 4 or higher software, which incorporates site specific parameters measured in accordance with Section 6.2.1. of this permit or operating parameters that provide the highest HAP emissions when using GRI-GLYCalc V4 or higher. The emission estimate shall also incorporate a copy of the lab analysis obtained from the wet gas sampling 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 and identification of where the compressor station is located before or after the liquids extraction plant. This report shall be signed by a responsible official upon submittal.
[45CSR13 - Permit No. R13-2397 - Condition 4.5.1.]
- 6.5.2. The permittee shall report the results of the testing as required in condition Section 6.3. of this permit before the close of business on the 60th day following the completion of such testing to the Director.
[45CSR13 - Permit No. R13-2397 - Condition 4.5.2.]
- 6.5.3. Any violation(s) of 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 within ten (10) calendar days of the occurrence and shall include, at a minimum, 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 - Permit No. R13-2397 - Condition 4.5.3.]
- 6.5.4. Any violation(s) of the flare design and operation criteria set forth in Section 6.1.5. of this permit shall be reported in writing to the Director as soon as practicable, but within ten (10) calendar days.
[45CSR13 - Permit No. R13-2397 - Condition 4.5.4.]

6.6. Compliance Plan

- 6.6.1. None