West Virginia Department of Environmental Protection

Austin Caperton
Cabinet Secretary

Permit to Operate

Pursuant to

Title V

of the Clean Air Act

Issued to:

Columbia Gas Transmission, LLC
Glady Compressor Station
R30-08300017-2018

William F. Durham
Director, Division of Air Quality

Issued: March 9, 2018 • Effective: March 23, 2018
Expiration: March 9, 2023 • Renewal Application Due: September 9, 2022

Permit Number: **R30-08300017-2018**
Permittee: **Columbia Gas Transmission, LLC**
Facility Name: **Glady Compressor Station**
Permittee Mailing Address: **1700 MacCorkle Avenue SE, Charleston, WV 25314**

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:	Glady, Randolph County, West Virginia
Facility Mailing Address:	Route 22, Glady, WV 26268
Telephone Number:	304-357-2196
Type of Business Entity:	LLC
Facility Description:	Natural gas compressor station
SIC Codes:	4922
UTM Coordinates:	615.52 km Easting • 4,293.19 km Northing • Zone 17

Permit Writer: Denton McDerment

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

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
16801*	E01	Reciprocating Engine/Integral Compressor; Ingersoll-Rand 48KVS; 4-cycle, lean burn	1965	1,320 hp	None
16802*	E02	Reciprocating Engine/Integral Compressor; Ingersoll-Rand 48KVS; 4-cycle, lean burn	1965	1,320 hp	None
16803*	E03	Reciprocating Engine/Integral Compressor; Ingersoll-Rand 48KVS; 4-cycle, lean burn	1965	1,320 hp	None
168G1*	G1	Reciprocating Engine/Generator; Waukesha F2895GL; 4-cycle, rich burn	1992	325 hp	None
168G3*	G3	Reciprocating Engine/Generator; Waukesha VGF-H24GLD; 4-cycle, lean burn	1998	608 hp	None
TEGDEHY1-1/1-2	FL3	TEG Dehydrator; Barnhart Tech	2000	312 MMscf/day	FLLP3
FLLP3*	FL3	TEG Dehydrator Flare NATCO Model # SVH-3	2002	5.74 MMBtu/hr	N/A
BLR1*	BL1	TEG Dehy Reboiler NATCO Model # SB/18-14	1990	1.0 MMBtu/hr	None
BLR2*	BL2	TEG Dehy Reboiler NATCO Model # SB/18-14	1990	1.0 MMBtu/hr	None
BLR5*	BL5	Heating System Boiler Peerless Model # 211A-10-N	1999	1.512 MMBtu/hr	None
HTR3*	H3	Line Heater; NATCO	1998	15 MMBtu/hr	None
HTR4*	H4	Line Heater; NATCO	1998	15 MMBtu/hr	None
A21	A21	Horizontal Fixed Roof Tank Pipeline/ Storage Field Liquids (Maximum vapor pressure less than 3.5 kPa) - Brine (Water mixture)	1990	30,000 gallons	None

*This equipment burns pipeline quality natural gas only.

1.2. Active R13, R14, and R19 Permits

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

Permit Number	Date of Issuance
R13-2218C	March 11, 2003

2.0 General Conditions

2.1. Definitions

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

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

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

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

2.2. Acronyms

CAAA	Clean Air Act Amendments
CBI	Confidential Business Information
CEM	Continuous Emission Monitor
CES	Certified Emission Statement
C.F.R. *or* CFR	Code of Federal Regulations
CO	Carbon Monoxide
C.S.R. *or* CSR	Codes of State Rules
DAQ	Division of Air Quality
DEP	Department of Environmental Protection
FOIA	Freedom of Information Act
HAP	Hazardous Air Pollutant
HON	Hazardous Organic NESHAP
HP	Horsepower
lbs/hr *or* lb/hr	Pounds per Hour
LDAR	Leak Detection and Repair
m	Thousand
MACT	Maximum Achievable Control Technology
mm	Million
mmBtu/hr	Million British Thermal Units per Hour
mmft^3/hr *or* mmcf/hr	Million Cubic Feet Burned per Hour
NA *or* N/A	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAPS	National Emissions Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standards
PM	Particulate Matter
PM_{10}	Particulate Matter less than 10μm in diameter
pph	Pounds per Hour
ppm	Parts per Million
PSD	Prevention of Significant Deterioration
psi	Pounds per Square Inch
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
TAP	Toxic Air Pollutant
TPY	Tons per Year
TRS	Total Reduced Sulfur
TSP	Total Suspended Particulate
USEPA	United States Environmental Protection Agency
UTM	Universal Transverse Mercator
VEE	Visual Emissions Evaluation
VOC	Volatile Organic Compounds

2.3. Permit Expiration and Renewal

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

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

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

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

2.4. Permit Actions

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

2.5. Reopening for Cause

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

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

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

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

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

[45CSR§30-6.6.a.]

2.6. Administrative Permit Amendments

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

2.7. Minor Permit Modifications

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

2.8. Significant Permit Modification

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

2.9. Emissions Trading

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

2.10. Off-Permit Changes

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

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

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

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

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

e. No permittee may make any change subject to any requirement under Title IV of the Clean Air Act (Acid Deposition Control) pursuant to the provisions of 45CSR§30-5.9.

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

[45CSR§30-5.9.]

2.11. Operational Flexibility

2.11.1. The permittee may make changes within the facility as provided by § 502(b)(10) of the Clean Air Act. Such operational flexibility shall be provided in the permit in conformance with the permit application and applicable requirements. No such changes shall be a modification under any rule or any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) promulgated by the Secretary in accordance with Title I of the Clean Air Act and the change shall not result in a level of emissions exceeding the emissions allowable under the permit.
[45CSR§30-5.8]

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

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

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

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

[45CSR§30-5.8.c.]

2.11.4. "Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
[45CSR§30-2.39]

2.12. Reasonably Anticipated Operating Scenarios

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

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

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

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

[45CSR§30-5.1.i.]

2.13. Duty to Comply

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

2.14. Inspection and Entry

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

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

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

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

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

[45CSR§30-5.3.b.]

2.15. Schedule of Compliance

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

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

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

[45CSR§30-5.3.d.]

2.16. Need to Halt or Reduce Activity not a Defense

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

2.17. Emergency

2.17.1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
[45CSR§30-5.7.a.]

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

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

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

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

c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

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

[45CSR§30-5.7.c.]

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

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

2.18. Federally-Enforceable Requirements

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

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

2.19. Duty to Provide Information

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

2.20. Duty to Supplement and Correct Information

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

2.21. Permit Shield

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

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

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

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

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

[45CSR§30-5.6.c.]

2.22. Credible Evidence

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

2.23. Severability

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

2.24. Property Rights

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

2.25. Acid Deposition Control

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

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

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

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

[45CSR§30-5.1.d.]

2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA.
[45CSR§30-5.1.a.2.]

3.0 Facility-Wide Requirements

3.1. Limitations and Standards

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

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

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

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

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

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

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

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

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

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

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

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

3.1.9. No person shall cause, suffer, allow or permit fugitive particulate matter to be discharged beyond the boundary lines of the property on which the discharge originates or at any public or residential location, which causes or contributes to statutory air pollution.
[45CSR§17-3.1. State-Enforceable only]

3.1.10. Refer to permit condition 7.1.4.

3.2. Monitoring Requirements

3.2.1. Reserved.

3.3. Testing Requirements

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

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

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

c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing

at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

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

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

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

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

[WV Code §§ 22-5-4(a)(14-15) and 45CSR13, R13-2218, C.4.]

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.]

3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records.
[45CSR§30-5.1.c.2.B.]

3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken. **[45CSR§30-5.1.c. State-Enforceable only.]**

3.5. Reporting Requirements

3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
[45CSR§§30-4.4. *and* 5.1.c.3.D.]

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

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

DAQ:

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

US EPA:

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

DAQ Compliance and Enforcement[1]:
DEPAirQualityReports@wv.gov

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

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

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

DAQ:	**US EPA:**
DEPAirQualityReports@wv.gov	R3_APD_Permits@epa.gov

[45CSR§30-5.3.e.]

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

DAQ:
DEPAirQualityReports@wv.gov

[45CSR§30-5.1.c.3.A.]

3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.

3.5.8. **Deviations.**

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

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

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

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

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

[45CSR§30-5.1.c.3.C.]

b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary.
[45CSR§30-5.1.c.3.B.]

3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.
[45CSR§30-4.3.h.1.B.]

3.6. Compliance Plan

3.6.1. Reserved.

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. **45CSR21 – *To Prevent and Control Air Pollution from the Emission of Volatile Organic Compounds.*** This facility is not located in one of the affected counties.

b. **45CSR27 – *To Prevent and Control the Emissions of Toxic Air Pollutants.*** Natural gas is included as a petroleum product and contains less than 5% benzene by weight. 45CSR§27-2.4 exempts equipment "used in the production and distribution of petroleum products providing that such equipment does not produce or contact materials containing more than 5% benzene by weight."

c. **40 C.F.R. 60 Subparts K and Ka- *Standards of Performance for Storage Vessels for Petroleum Liquids.*** All tanks at Glady station are below 40,000 gallons in capacity. Since the applicability criteria in §§60.110(a) and 60.110a(a) are not met, the regulations are not applicable.

d. **40 C.F.R. 60 Subpart Kb—*Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984.*** All tanks (except Tank A21) at Glady station are less than 75 m^3 in capacity. Since the vessels do not meet applicability criterion at §60.110b(a), the regulation does not apply to these tanks. The Title V permit R30-08300017-2012 describes Tank A25 as being 30,000-gal capacity and subject to the NSPS recordkeeping requirements. However, in 10/5/2017 technical correspondence, the permittee confirmed that Tank A25 is a 10,000-gal methanol tank, and is not subject to the regulation due to its capacity. The permittee confirmed in the correspondence that there are no 30,000-gal tanks other than A21. Tank A21 has a volume between 75 m^3 and 150 m^3, and

according to the renewal application has a maximum true vapor pressure less than 3.5 kPa. As such, it meets the second set of criteria in §60.110b(b), which are excepted from applicability in §60.110b(a). The recordkeeping that was in the 2012 Title V permit was based upon §60.116b(b). However, this was incorrectly applied to the tanks as §60.116b(b) refers only to storage vessels specified in §60.110b(a). Since Tank A21 is not specified in §60.110b(a), but rather is an exception under §60.110b(b), then the recordkeeping in §60.116b(b) is not applicable to Tank A21 and has not been retained in this renewal permit.

e. **40 C.F.R. 60 Subpart KKK** - ***Standards of Performance for Equipment Leaks of VOC From Onshore Natural Gas Processing Plant.*** Glady station is not engaged in the extraction or fractionation of natural gas liquids from field gas, the fractionation of mixed natural gas liquids to natural gas products, or both.

f. **40 C.F.R. 60 Subpart IIII** - ***Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.*** Glady Compressor Station does not have any compression ignition internal combustion engines; therefore, it does not meet the applicability criteria in 40 C.F.R. §60.4200(a).

g. **40 C.F.R. 60 Subpart JJJJ** - ***Standards of Performance for Stationary Spark Ignition Internal Combustion Engines.*** All engines at the Glady Compressor Station were constructed, reconstructed, or modified prior to the June 12, 2006 applicability date listed in 40 C.F.R. §§60.4230(a)(4) and (5).

h. **40 C.F.R. 60 Subpart OOOO** - ***Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015.*** The Storage Vessel requirements defined for transmission sources are not applicable to this site because all vessels were constructed, commenced construction, prior to August 23, 2011 as stated in accordance with 40 C.F.R. §60.5365(e). No other affected sources were identified at this site due to not commencing construction, modification, or reconstruction after August 23, 2011, and on or before September 18, 2015.

i. **40 C.F.R. 60 Subpart OOOOa** - ***Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015.*** Construction commenced for all potentially affected sources at the site prior to September 18, 2015. Therefore, the GHG and VOC requirements defined by this NSPS are not applicable to this site since none of the sources meet the applicability criteria defined in 40 C.F.R. §60.5365a.

j. **40 C.F.R. 63 Subpart HH** – ***National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities.*** This subpart applies to production facilities according to 40 C.F.R. §63.760. Since Glady Compressor Station is a transmission facility, this subpart is not applicable.

k. **40 C.F.R. 63 Subpart HHH** – ***National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities.*** According to 40 C.F.R. §63.1270(a), this subpart applies to owners and operators of natural gas transmission and storage facilities that are major sources of hazardous air pollutants (HAP) emissions as defined in §63.1271. Since Glady Compressor Station is not a major source of HAP, this subpart is not applicable.

l. **40 C.F.R. 63 Subpart DDDDD** – ***National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.*** According to 40 C.F.R. §63.7485, this subpart applies to a boiler or process heater as defined in §63.7575 that is located at, or is part of, a major source of HAP. Since Glady Compressor Station is not a major source of HAP, this subpart is not applicable.

m. **40 C.F.R. 63Subpart JJJJJJ** – ***National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources***. According to 40 C.F.R. §63.11193, this subpart applies to a boiler as defined in §63.11237 that is located at, or is part of, an area source of hazardous air pollutants (HAP), as defined in §63.2, except as specified in §63.11195. Since the boilers at Glady Compressor Station combust only natural gas, then they meet the exemption for a gas-fired boiler in §63.11195(e). Consequently, this subpart is not applicable.

n. **40 C.F.R. Part 64** – ***Compliance Assurance Monitoring***. The TEG Dehydrator is subject to a pre-control major VOC emission limitation of 8.33 tpy and utilizes a flare operated in accordance with §60.18 (condition 7.1.3.) to meet this limit. However, the 2012 operating permit specifies a continuous compliance determination method, which is to monitor and record the presence of a pilot flame (condition 7.4.1.). Therefore, in accordance with 40 C.F.R. §64.2(b)(1)(vi), CAM is not applicable to this source. The remaining equipment at the facility do not utilize add on controls; therefore, in accordance with 40 C.F.R. §64.2(a)(2), CAM is not applicable to these sources.

3.8. Emergency Operating Scenario

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

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

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

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

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

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

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

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

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

   iv. Projected duration of the replacement engine(s); and

   v. The appropriate certification by a responsible official.

[45CSR§30-12.7.]

4.0 Miscellaneous Indirect Natural Gas Heaters and Boilers [emission unit (point) IDs: BLR1 (BL1), BLR2 (BL2), BLR5 (BL5), HTR3 (H3), HTR4 (H4)]

4.1. Limitations and Standards

4.1.1. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average. **[45CSR§2-3.1.; 45CSR13, R13-2218, B.7.]**

4.1.2. Compliance with the visible emission requirements of 45CSR§2-3.1 (condition 4.1.1 of this permit) shall be determined in accordance with 40 C.F.R. Part 60, Appendix A, Method 9 or by using measurements from continuous opacity monitoring systems approved by the Director. The Director may require the installation, calibration, maintenance and operation of continuous opacity monitoring systems and may establish policies for the evaluation of continuous opacity monitoring results and the determination of compliance with the visible emission requirements of 45CSR§2-3.1 (Section 4.1.1 of this permit). Continuous opacity monitors shall not be required on fuel burning units which employ wet scrubbing systems for emission control. **[45CSR§2-3.2.; 45CSR13, R13-2218, B.7.]**

4.1.3. The Director may approve an alternative visible emissions standard to that required under 45CSR2-3.1 (condition 4.1.1 of this permit), not to exceed twenty (20) percent opacity, upon the filing of a written petition by the owner or operator, which petition shall include a demonstration satisfactory to the Director. **[45CSR§2-3.4.; 45CSR13, R13-2218, B.7.]**

4.1.4. Refer to permit conditions 7.1.1., 7.1.8., and 7.1.9. for pollutant emission limitations and natural gas consumption limitations for HTR3 and HTR4.

4.2. Monitoring Requirements

4.2.1. At such reasonable times as the Secretary may designate, the permittee shall conduct visible emissions observations using Method 22 for the purpose of demonstrating compliance with Section 4.1.1. If visible emissions are observed, the permittee shall conduct a Method 9 reading unless the cause for visible emissions is corrected within 24 hours. Records of observation will be kept for at least 5 years from the date of observation.
[45CSR§30-5.1.c.]

4.3. Testing Requirements

4.3.1. Reserved.

4.4. Recordkeeping Requirements

4.4.1. As an alternative to meeting the requirements of paragraph (g)(1) of 40 C.F.R. §60.48c, the owner or operator of an affected facility that combusts only natural gas may elect to record and maintain records of the amount of each fuel combusted during each calendar month.
[40 C.F.R. §60.48c(g)(2); 45CSR16]

4.4.2. All records required under 40 C.F.R. §60.48c (permit condition 4.4.1.) shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.
[40 C.F.R. §60.48c(i); 45CSR16] (HTR3, HTR4)

4.5. Reporting Requirements

4.5.1. Reserved.

4.6. Compliance Plan

4.6.1. Reserved.

5.0 40 C.F.R. 63 Subpart ZZZZ Requirements for 4SRB RICE < 500 bhp [emission unit (point) IDs: 168G1 (G1)]

5.1. Limitations and Standards

5.1.1. If you have an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than October 19, 2013.
[40 C.F.R. §63.6595(a)(1); 45CSR34]

5.1.2. As stated in 40 C.F.R. §§63.6603 and 63.6640, the permittee must comply with the following requirements from Table 2d for existing stationary RICE located at area sources of HAP emissions:

For each . . .	The permittee must meet the following requirements, except during periods of startup . . .	During periods of startup you must . . .
Non-emergency, non-black start 4SRB stationary RICE ≤500 HP	Change oil and filter every 1,440 hours of operation or annually, whichever comes first;[1]	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.
	Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and	
	Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	

[1] Sources have the option to utilize an oil analysis program as described in §63.6625(j) (permit condition 5.2.1.) in order to extend the specified oil change requirement in Table 2d of this subpart.

[40 C.F.R. §63.6603(a), Table 2d, Item 10; 40 C.F.R. §63.6625(h); 45CSR34]

5.1.3. The permittee shall comply with the following general requirements:

a. The permittee must be in compliance with the operating limitations and other requirements in 40 C.F.R. 63 Subpart ZZZZ that apply to you at all times.

b. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 C.F.R. §§ 63.6605(a) and (b); 45CSR34]

5.1.4. If you own or operate an existing non-emergency, non-black start 4SRB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions, you 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 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. §§ 63.6625(e) and (e)(8); 45CSR34]

5.1.5. **Continuous Compliance.** As stated in §63.6640, you must continuously comply with the work or management practices as required by the following:

a. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

b. 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. §63.6640(a), Table 6, Item 9; 45CSR34]

5.1.6. The permittee shall comply with the applicable General Provisions in §§63.1 through 63.15 in Table 8 to 40 C.F.R. 63 Subpart ZZZZ.
[40 C.F.R. §63.6665; 45CSR34]

5.2. Monitoring Requirements

5.2.1. **Optional Oil Analysis Program.** 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 this subpart or in items 5, 6, 7, 9, or 11 of Table 2d to this subpart, 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 this subpart (condition 6.1.2.). The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. 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]

5.3. Testing Requirements

5.3.1. Reserved.

5.4. Recordkeeping Requirements

5.4.1. You must keep the records required in Table 6 (Item 9) of 40 C.F.R. 63 Subpart ZZZZ (permit condition 5.1.5.) to show continuous compliance with each emission or operating limitation that applies to you.
[40 C.F.R. §63.6655(d); 45CSR34]

5.4.2. You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate an existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to 40 C.F.R. 63 Subpart ZZZZ.
[40 C.F.R. §§ 63.6655(e) and (e)(3); 45CSR34]

5.4.3. **Format and Retention of Records**

a. Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).

b. As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

c. You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

[40 C.F.R. §§ 63.6660(a), (b), and (c); 45CSR34]

5.5. Reporting Requirements

5.5.1. You must report each instance in which you did not meet each limitation in Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650.
[40 C.F.R. §63.6640(b); 45CSR34]

5.5.2. You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you.
[40 C.F.R. §63.6640(e); 45CSR34]

5.5.3. The permittee must report all deviations as defined in 40 C.F.R. 63 Subpart ZZZZ in the semiannual monitoring report required by permit condition 3.5.6.
[40 C.F.R. §63.6650(f); 45CSR34]

5.6. Compliance Plan

5.6.1. Reserved.

6.0 40 C.F.R. 63 Subpart ZZZZ Requirements for Remote 4SLB RICE > 500 bhp [emission unit (point) IDs: 16801 (E01), 16802 (E02), 16803 (E03), 168G3 (G3)]

6.1. Limitations and Standards

6.1.1. If you have an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than October 19, 2013.
[40 C.F.R. §63.6595(a)(1); 45CSR34]

6.1.2. As stated in 40 C.F.R. §§63.6603 and 63.6640, the permittee must comply with the following requirements from Table 2d for existing stationary RICE located at area sources of HAP emissions:

For each . . .	The permittee must meet the following requirements, except during periods of startup . . .	During periods of startup you must . . .
Non-emergency, non-black start 4SLB remote stationary RICE >500 HP	Change oil and filter every 2,160 hours of operation or annually, whichever comes first;[1]	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.
	Inspect spark plugs every 2,160 hours of operation or annually, whichever comes first, and replace as necessary; and	
	Inspect all hoses and belts every 2,160 hours of operation or annually, whichever comes first, and replace as necessary.	

[1] Sources have the option to utilize an oil analysis program as described in §63.6625(j) (permit condition 6.2.1.) in order to extend the specified oil change requirement in Table 2d of this subpart.

[40 C.F.R. §63.6603(a), Table 2d, Item 8; 40 C.F.R. §63.6625(h); 45CSR34]

6.1.3. The permittee shall comply with the following general requirements:

a. The permittee must be in compliance with the operating limitations and other requirements in 40 C.F.R. 63 Subpart ZZZZ that apply to you at all times.

b. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 C.F.R. §§ 63.6605(a) and (b); 45CSR34]

6.1.4. **Continuous Compliance.** As stated in §63.6640, you must continuously comply with the work or management practices as required by the following:

a. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

b. 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. §63.6640(a), Table 6, Item 9; 45CSR34]

6.1.5. The permittee shall comply with the applicable General Provisions in §§63.1 through 63.15 in Table 8 to 40 C.F.R. 63 Subpart ZZZZ.
[40 C.F.R. §63.6665; 45CSR34]

6.1.6. Refer to permit condition 7.1.1. for pollutant emission limitations placed upon G3.

6.2. Monitoring Requirements

6.2.1. **Optional Oil Analysis Program.** 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 this subpart or in items 5, 6, 7, 9, or 11 of Table 2d to this subpart, 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 this subpart (condition 6.1.2.). The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. 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]

6.3. Testing Requirements

6.3.1. Reserved.

6.4. Recordkeeping Requirements

6.4.1. **Remote Status Annual Evaluation.** Owners and operators of existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP that meet the definition of remote stationary RICE in §63.6675 of this subpart as of October 19, 2013 must evaluate the status of their stationary RICE every 12 months. Owners and operators must keep records of the initial and annual evaluation of the status of the engine. If the evaluation indicates that the stationary RICE no longer meets the definition of remote stationary RICE in §63.6675 of this subpart, the owner or operator must comply with all of the requirements for existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP that are not remote stationary RICE within 1 year of the evaluation.
[40 C.F.R. §63.6603(f); 45CSR34]

6.4.2. You must keep the records required in Table 6 (Item 9) of 40 C.F.R. 63 Subpart ZZZZ (permit condition 6.1.4.) to show continuous compliance with each emission or operating limitation that applies to you.
[40 C.F.R. §63.6655(d); 45CSR34]

6.4.3. You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate an existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to 40 C.F.R. 63 Subpart ZZZZ.
[40 C.F.R. §§ 63.6655(e) and (e)(3); 45CSR34]

6.4.4. **Format and Retention of Records**

a. Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).

b. As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

c. You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

[40 C.F.R. §§ 63.6660(a), (b), and (c); 45CSR34]

6.5. Reporting Requirements

6.5.1. You must report each instance in which you did not meet each limitation in Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650.
[40 C.F.R. §63.6640(b); 45CSR34]

6.5.2. You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you.
[40 C.F.R. §63.6640(e); 45CSR34]

6.5.3. The permittee must report all deviations as defined in 40 C.F.R. 63 Subpart ZZZZ in the semiannual monitoring report required by permit condition 3.5.6.
[40 C.F.R. §63.6650(f); 45CSR34]

6.6. Compliance Plan

6.6.1. Reserved.

7.0 45CSR13, Permit No. R13-2218 Requirements [emission unit (point) IDs: FLLP3 (FL3), 168G3 (G3), HTR3 (H3), HTR4 (H4)]

7.1. Limitations and Standards

7.1.1. Emissions to the atmosphere shall not exceed the emission rate limits from the emission points listed in the following table. In accordance with the information filed in permit applications R13-2218A and R13-2218B, all amendments attached thereto, and all subsequent revisions submitted, the following equipment shall be modified, and the following control equipment shall be installed, maintained, and operated to achieve, at a minimum, a 95% reduction of hazardous air pollutants (HAP):

Emission Point ID	Equipment Description (Control Device)	Emission Rates		
		Pollutant	PPH	TPY
FL3	Triethylene Glycol Contact Tower (312 MMscf/day) (TEGDEHY1-1/TEGDEHY 1-2) (NATCO Dehydrator Flare (5.74 MMBTU/hr) (FL3))	NO_x	0.39	1.71
		CO	2.13	9.30
		SO_2	0.33	0.02
		PM_{10}	0.02*	0.05
		VOC	1.91	8.33
		Benzene	0.48	2.09
		Toluene	0.51	2.22
		Ethylbenzene	0.16	0.68
		Xylene	0.23	1.01
		Hexane	0.02	0.06
G3	Waukesha VGF-H24GL, 608 HP Engine (Generator)	NO_x	3.48	15.26
		CO	2.34	10.27
		SO_2	0.34	1.50
		PM_{10}	0.17	0.76
		VOC	1.00	4.40
H3	Natco 15 MMBTU/hr Line Heater	NO_x	2.10	9.20
		CO	0.53	2.30
		SO_2	0.01‡	0.04
		PM_{10}	0.21†	0.90
		VOC	0.04	0.18
H4	Natco 15 MMBTU/hr Line Heater	NO_x	2.10	9.20
		CO	0.53	2.30
		SO_2	0.01‡	0.04
		PM_{10}	0.21†	0.90
		VOC	0.04	0.18

**Compliance with the hourly PM_{10} limit for FL3 ensures compliance with the less stringent PM limit required by 45CSR§6-4.1. in condition 7.1.6.*

‡ Compliance with the hourly SO_2 limit for H3 and H4 ensures compliance with the less stringent SO_2 limit of 48 lb/hr required by 45CSR§10-3.3.f.

† Compliance with the hourly PM_{10} limit for H3 and H4 ensures compliance with the less stringent PM limit of 1.35 lb/hr required by 45CSR§2-4.1.b.

[45CSR13, R13-2218, A.1. and B.9.; 45CSR§6-4.1.; 45CSR§10- 3.3.f.; 45CSR§2-4.1.b.]

7.1.2. The maximum quantity of wet gas processed through the Triethylene Glycol Contact Tower (TEGDEHY1-1/TEGDEHY1-2) shall not exceed 13 MMscf/hr, 312 MMscf/day, and 113,880 MMscf/yr on a rolling twelve (12) month total.
[45CSR13, R13-2218, A.2.]

7.1.3. The permittee shall operate and maintain a control device to control and reduce emissions of Hazardous Air Pollutants below the applicability threshold specified in 40 C.F.R. 63 Subpart HHH. The flare shall be designed and operated as follows:

a. The TEG dehydrator shall be equipped with a flare to control organic compound emissions. The flare shall be fired with natural gas and shall be operated with 95% or greater control efficiency and in accordance with 40 C.F.R. §60.18 "General Control Device Requirements" paragraphs (c) through (f).

b. The flare controlling the TEG dehydrator emissions shall be designed and operated in a manner that will ensure no visible emissions, as determined by 40 C.F.R. §60.18(f), except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours.
Compliance with this no visible emission requirement ensures compliance with the opacity limitations required by 45CSR§§6-4.3. and 4.4. in permit condition 7.1.6.

c. The flare and pilot flame shall be operated at all times when emissions may be vented to it, as determined by methods specified in 40 C.F.R. §60.18(f).

d. The flare shall be used only when the net heating value of the gas being combusted is 200 BTU/scf or greater. The net heating value of the gas being combusted shall be determined by the methods specified in 40 C.F.R. §60.18(f).

e. The flare shall be designed and operated with an exit velocity that satisfies the requirements of 40 C.F.R. §60.18(f).

[45CSR13, R13-2218, A.3.; 45CSR§§6-4.3. and 4.4.] (FLLP3)

7.1.4. Facility-wide emissions to the atmosphere of Benzene, Toluene, Ethylbenzene, Xylene, and Hexane shall not exceed, on a per HAP basis, ten (10) tons per year or, on a total HAP basis, twenty-five (25) tons per year.
[45CSR13, R13-2218, A.4.]

7.1.5. The quantity of natural gas that is consumed in the 608-HP natural gas compressor engine (G3) shall not exceed 5,997 cubic feet per hour or 52.53×10^6 cubic feet per year.
[45CSR13, R13-2218, A.5.]

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

Emissions (lb/hr) = F × Incinerator Capacity (tons/hr)

Emissions (lb/hr) = (5.43) × [(5.74×10^6 Btu/hr) × (1 scf / 1,020 Btu) × (0.041 lb / 1 scf)] × (1 ton / 2,000 lb)

Emissions (lb/hr) = (5.43) × (231 lb/hr) × (1 ton / 2,000 lb)

Emissions (lb/hr) = 0.63 lb/hr

Compliance with the hourly PM_{10} limit for FL3 in condition 7.1.1. ensures compliance with this less stringent 45CSR6 PM limit.

[45CSR§6-4.1.]

Emissions of Visible Particulate Matter – No person shall cause, suffer, allow or permit emission of smoke into the atmosphere from any incinerator which is twenty (20%) opacity or greater.
[45CSR§6-4.3.]

The provisions of 45CSR6-4.3 shall not apply to smoke which is less than forty (40%) percent opacity, for a period or periods aggregating no more than eight (8) minutes per start-up, or six (6) minutes in any sixty (60) -minute period for stoking operations.
[45CSR§6-4.4.]

Compliance with the no visible emission requirement in condition 7.1.3.b. ensures compliance with the 45CSR6 opacity limitations in this condition.

[45CSR13, R13-2218, B.8.] (FLLP3)

7.1.7. The permitted facility shall be constructed and operated in accordance with information filed in Permit Applications R13-2218, R13-2218A, and R13-2218B and any amendments thereto. The Director may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to.
[45CSR13, R13-2218, C.3.]

7.1.8. The quantity of natural gas that is consumed in the 15 MMBtu/hr natural gas-fired line heater (H3) shall not exceed 15,000 cubic feet per hour or 131.40×10^6 cubic feet per year.
[45CSR13, R13-2218, A.6.]

7.1.9. The quantity of natural gas that is consumed in the 15 MMBtu/hr natural gas-fired line heater (H3) shall not exceed 15,000 cubic feet per hour or 131.40×10^6 cubic feet per year.
[45CSR13, R13-2218, A.7.]

7.2. Monitoring Requirements

7.2.1. Reserved.

7.3. Testing Requirements

7.3.1. Tests that are required by the Director to determine compliance with the emission limitations for G3, H3, and H4 of this permit shall be conducted in accordance with the methods as set forth below. The Director may require a different test method or approve an alternative method in light of any new technology advancements that may occur. Compliance testing shall be conducted at 100% of the peak load unless otherwise specified by the Director.

a. Tests to determine compliance with PM emission limits shall be conducted in accordance with Method 5, 5A, 5B, 5C, 5D, 5E, 5F, 5G, or 5H as set forth in 40 C.F.R. 60, Appendix A.

b. Tests to determine compliance with SO_2 emission limits shall be conducted in accordance with Method 6, 6A, 6B, or 6C as set forth in 40 C.F.R. 60, Appendix A.

c. Tests to determine compliance with CO emission limits shall be conducted in accordance with Method 10, 10A, or 10B as set forth in 40 C.F.R. 60, Appendix A.

d. Tests to determine compliance with NO_x emission limits shall be conducted in accordance with Method 7, 7A, 7B, 7C, 7D, or 7E as set forth in 40 C.F.R. 60, Appendix A.

e. Tests to determine compliance with VOC emission limits shall be conducted in accordance with Method 25 or 25A as set forth in 40 C.F.R. 60, Appendix A.

f. Tests to determine compliance with Opacity of emissions shall be conducted in accordance with Method 9 as set forth in 40 C.F.R. 60, Appendix A.

[45CSR13, R13-2218, B.1.]

7.3.2. With regard to any testing required by the Director, the permittee shall submit to the Director of Air Quality a test protocol detailing the proposed test methods, the date, and the time the proposed testing is to take place, as well as identifying the sampling locations and other relevant information. The test protocol must be received by the Director no less than thirty (30) days prior to the date the testing is to take place. Test results shall be submitted to the Director no more than sixty (60) days after the date the testing takes place.
[45CSR13, R13-2218, B.2.]

7.3.3. Compliance with the emission limits for the Triethylene Glycol Contact Tower (TEGDEHY1-1/TEGDEHY1-2) will be demonstrated using GRI-GLYCal Version 3.0 and the design throughput of the dehydration unit (312 MMscf/day or 13 MMscf/hr).
[45CSR13, R13-2218, B.3.]

7.4. Recordkeeping Requirements

7.4.1. The permittee shall record the following information for the flare each month during TEG Dehydration unit operation.

a. Maintain records of the presence of a pilot flame, and

b. The amount of assist gas (natural gas) added to the uncondensed vapor/hydrocarbon and burned in the flare shall be metered.

[45CSR13, R13-2218, B.4.]

7.4.2. Compliance with the design and operating conditions set forth in permit condition 7.1.3. shall be determined by maintaining design records/calculations indicating the minimum assist gas flare flow rate and the maximum allowable flare exit gas velocity.
[45CSR13, R13-2218, B.5.]

7.4.3. All records required by permit R13-2218 shall be kept and maintained onsite for a period of not less than five (5) years from the date of the observation. Certified copies of these records shall be made available, upon request, to the Director of the Division of Air Quality or his or her duly authorized representative.
[45CSR13, R13-2218, B.6.]

7.5. Reporting Requirements

7.5.1. Reserved.

7.6. Compliance Plan

7.6.1. Reserved.