State of Ohio Environmental Protection Agency

Street Address:
1800 WaterMark Drive
Columbus, OH 43215-1099

TELE: (614) 644-3020 **FAX:** (614) 644-2329

Mailing Address:
P.O. Box 1049
Columbus, OH 43216-1049

12/23/98

CERTIFIED MAIL

RE: Draft Title V Chapter 3745-77 permit

03-70-00-0228
WEAVER COMPRESSOR STATION
Mike Hoffman
Environmental Affairs Department
P. O. Box 1273
Charleston, WV 25325-1273

Dear Mike Hoffman:

You are hereby notified that the Ohio Environmental Protection Agency has prepared the enclosed draft of the Title V permit for the facility referenced above. The purpose of this draft is to solicit public comments. A public notice concerning the draft will appear in the Ohio EPA Weekly Review and the major newspaper in the county where the facility is located. Comments and/or a request for a public hearing from the public and any affected parties will be accepted by Northwest District Office within 30 days of the date of publication in the newspaper. You will be notified in writing if a public hearing is scheduled.

A decision on processing the Title V permit will be made after consideration of written public comments and oral testimony (if a public hearing is conducted). After the comment period, you will be provided with a Preliminary Proposed Title V permit and an opportunity to comment prior to the Proposed Title V permit submittal to USEPA.

If you have any questions or comments concerning this draft Title V permit, please contact Northwest District Office.

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA
Jim Orlemann, DAPC Engineering
Michael Ahern, DAPC PMU
Northwest District Office

Ohio EPA
State of Ohio Environmental Protection Agency

TITLE V PERMIT

Issue Date: 12/23/98

DRAFT

Effective Date:

Expiration Date:

This document constitutes issuance to:

WEAVER COMPRESSOR STATION
Environmental Affairs Department
1700 MacCorkle Avenue, S.E.
Charleston, WV 25325

of a Title V permit for Facility ID: 03-70-00-0228

Emissions Unit ID (Company ID)/
Emissions Unit Activity Description:
B005 (RECIP ENGINE/GENERATOR #082G1)
EMERGENCY GENERATOR : A NATURAL GAS-FIRED RECIPROCATING ENGINE GENERATING ELECTRICITY.

Z003 (RECIP ENGINE/INTEGRAL COMPR #08202)
PRIME MOVER : A NATURAL GAS-FIRED RECIPROCATING ENGINE COMPRESSING NATURAL GAS.

P004 (RECIP ENGINE/INTEGRAL COMPR #08204)
PRIME MOVER : A NATURAL GAS-FIRED RECIPROCATING ENGINE COMPRESSING NATURAL GAS.

Z004 (TURBINE ENGINE/CENTRIF COMPR #08205)
PRIME MOVER : A NATURAL GAS-FIRED TURBINE ENGINE COMPRESSING NATURAL GAS.

B003 (HEATER #1)
LINE HEATER: A NATURAL GAS-FIRED INDIRECT PROCESS HEATER.

Z002 (RECIP ENGINE/INTEGRAL COMPR #08201)
PRIME MOVER : A NATURAL GAS-FIRED RECIPROCATING ENGINE COMPRESSING NATURAL GAS.

B001 (RECIP ENGINE/INTEGRAL COMPR #08203)
PRIME MOVER : A NATURAL GAS-FIRED RECIPROCATING ENGINE COMPRESSING NATURAL GAS.

B004 (TEG DEHY #1)
NATURAL GAS DEHYDRATOR SYSTEM : ABSORBER TOWER & REGENERATOR STILL W/ BOILER.

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall

expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419) 352-8461

OHIO ENVIRONMENTAL PROTECTION AGENCY

_____

Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Recordkeeping and Reporting Requirements

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

   i. The date, place (as defined in the permit), and time of sampling or measurements.
   ii. The date(s) analyses were performed.
   iii. The company or entity that performed the analyses.
   iv. The analytical techniques or methods used.
   v. The results of such analyses.
   vi. The operating conditions existing at the time of sampling or measurement.

b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:

   i. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
   ii. Quarterly written reports of (i) any deviations from federally enforceable <u>emission limitations</u>, <u>operational restrictions</u>, <u>and control device operating parameter limitations</u>, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.) See B.8 below if no deviations occurred during the quarter.
   iii. Written reports, which identify any deviations from the federally enforceable <u>monitoring</u>, <u>recordkeeping</u>, <u>and reporting requirements</u> contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting requirements. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

b. It shall not be a defense for the 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 federally enforceable terms and conditions of this permit.

c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

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

e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

10. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen 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 paragraph (E)(1) of OAC rule 3745-77-08.

b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

11. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

12. Compliance Requirements

a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the appropriate Ohio EPA District Office or local air agency in the following manner and with the following content:

i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.

ii. Compliance certifications shall include the following:

(a) An identification of each term or condition of this permit that is the basis of the certification.

(b) The permittee's current compliance status.

(c) Whether compliance was continuous or intermittent.

(d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.

(e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

13. Permit Shield

a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

15. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

16. Off Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;

b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change;

c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);

d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and

e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

17. Compliance Method Requirements

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 (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

State Only Enforceable Section

1.

Prior to the " d
in AC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

a. Reports of any required monitoring and/or recordkeeping information shall be submitted to th appropriate Ohio EPA District Office or local air agency.

b. as otherwise may be provided in the terms and conditions for a specific emissions unit quarterly written reports of (a) any deviations (excursions) from emission limitations, operational ons, e
testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will ta o
devia occurred during a calendar quarter, the permittee shall submit a quarterly report, whic
states that no deviations occurred during that quarter. The reports shall be submitted quarterly, by J s
calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions

3. Records Retention Requirements

record of any monitoring data, testing data, and support information required pursuant to thi
permit shall be r t
information l
strip- recordings for continuous monitoring instrumentation, and copies of all reports required by

4. Inspections and Information Requests

Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safet
requirements y
reasonable s
pertaining to any emission of air contaminants, and determining compliance with any applicable State air laws and regulations and the terms and conditions of this permit. The permittee shall furnish to Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a writte
request and within a reasonable time, any information that may be requested to determine whether caus
exists for modifying, reopening or revoking this permit or to determine compliance with this permit
Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or a
authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Additional Reporting Requirements When There Are No Deviations of <u>Federally Enforceable</u> Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

None

B. State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

T001 - pipeline liquids tank B10;
T002 - pipeline liquids tank B11;
T003 - pipeline liquids tank B12;
T004 - pipeline liquids tank B13; and
Z005 - boiler #1 (4.4 mmBTU/hr).

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a permit to install for the emissions unit.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: RECIP ENGINE/INTEGRAL COMPR #08203 (B001)

Activity Description: PRIME MOVER : A NATURAL GAS-FIRED RECIPROCATING ENGINE COMPRESSING NATURAL GAS.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
large bore internal combustion engine fired with natural gas with a capacity of 14.8 mmBtu/hr	OAC rule 3745-17-11(B)(5)(b)	The particulate emissions from the engine's exhaust shall not exceed 0.062 pound per million Btu of actual heat input. See A.I.2.a below.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-18-06(A)	See A.II.1 below.

2. Additional Terms and Conditions

2.a The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

II. Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit which has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas which has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

0.062 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

Compliance with the particulate emissions limitation of 0.062 pound per million Btu of actual heat input is demonstrated by use of the AP-42, 5th Edition (supplement B) emission factor, table 3.2-2, for heavy duty natural gas fired pipeline compressor engines (0.029 pound of particulate emissions per million Btu of actual heat input).

If required, the permittee shall demonstrate compliance with the above particulate emissions limitation in accordance with the procedures and methods specified in OAC 3745-17-03(B)(10).

1.b Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

If required, the permittee shall demonstrate compliance with the above visible particulate emissions limitation pursuant to OAC rule 3745-15-04(A).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: HEATER #1 (B003)

Activity Description: LINE HEATER: A NATURAL GAS-FIRED INDIRECT PROCESS HEATER.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
line heater fired with natural gas with a capacity of 12.4 mmBtu/hr	OAC rule 3745-17-07(A)	Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	The particulate emissions from the heater exhaust shall not exceed 0.020 pound per million Btu of actual heat input.
	OAC rule 3745-18-06(A)	See A.II.1 below.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unitwhich has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas which has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a. Emission Limitation:

0.020 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be determined by multiplying the particulate emission factor of 1.9 pounds per million cubic feet of natural gas combusted by the emissions unit's maximum hourly fuel consumption rate (12,400 cu. ft./hr) and dividing by the emissions unit's maximum heat input capacity (12.4 mmBtu/hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2. If required, the permittee shall demonstrate compliance with this emissions limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

1.b. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
line heater fired with natural gas with a capacity of 12.4 mmBtu/hr	OAC rule 3745-31-05 (PTI 03-2409)	See B.I.2.a below.

2. Additional Terms and Conditions

2.a. The best available technology (BAT) determination for PTI 03-2409 was determined to be compliance with the requirements of OAC rule 3745-17-10, although this was not explicitly stated in the permit to install terms and conditions.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: TEG DEHY #1 (B004)

Activity Description: NATURAL GAS DEHYDRATOR SYSTEM : ABSORBER TOWER & REGENERATOR STILL W/ BOILER.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
triethylene glycol natural gas dehydrator with regeneration boiler and flare	OAC rule 3745-17-10(B)(1)	The particulate emissions from stack BL2 shall not exceed 0.020 pound per million Btu of actual heat input.
	OAC rule 3745-17-07(A)(1-3)	Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-18-06(A)	See A.II.1 below.
	OAC rule 3745-21-07(G)	See A.2.a. below.

2. Additional Terms and Conditions

2.a The dehydrator is designed to use only glycol which is not a photochemically reactive material as defined in OAC rule 3745-21-01(C)(5).

II. Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit which has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas which has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a. Emission Limitation:

0.020 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be determined by multiplying the particulate emission factor of 1.9 pounds per million cubic feet of natural gas combusted by the emissions unit's maximum hourly fuel consumption rate (1,800 cu. ft./hr) and dividing by the emissions unit's maximum heat input capacity (1.8 mmBtu/hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2. If required, the permittee shall demonstrate compliance with this emissions limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

1.b. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined through visible particulate emissions observations in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
triethylene glycol natural gas dehydrator with regeneration boiler and flare	OAC rule 3745-31-05 (PTI 03-11165)	From stack BL2: 0.06 lb/hr of particulates 0.26 tpy of particulates 0.01 lb/hr of sulfur dioxide (SO2) 0.044 tpy of SO2 0.4 lb/hr of nitrogen oxides (NOx) 1.75 tpy of NOx 0.08 lb/hr of carbon monoxide (CO) 0.35 tpy of CO 0.02 lb/hr of volatile organic compounds (VOC) 0.09 tpy of VOC From flare (stack FL1): 0.02 pound of particulates per million Btu of actual heat input 0.036 lb/hr of particulates 0.16 tpy of particulates 0.02 lb/hr of SO2 0.088 tpy of SO2 0.2 lb/hr of NOx 0.88 tpy of NOx 1.1 lbs/hr of CO 4.82 tpy of CO 2.8 lbs/hr of VOC 12.3 tpy of VOC

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. A pilot flame shall be maintained at all times in the flare's pilot light burner.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate, and maintain a device to continuously monitor the pilot flame when the emissions unit is in operation. The monitoring device and any recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturers recommendations, instructions and operating manuals.

2. The permittee shall record the following information each day:

a. all periods during which there was no pilot flame; and

b. a log of the downtime for the flare and monitoring equipment, when the associated emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods during which the pilot flame was not functioning properly. The reports shall include the date, time, and duration of each such period.

2. The deviation report shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

V. Testing Requirements

1. Compliance with the emissions limitations in section B.I.1 of these terms and conditions shall be determined in accordance with the following method:

Emission Limitations:

from stack BL2:

0.06 lb/hr of particulates
0.26 tpy of particulates

0.01 lb/hr of sulfur dioxide (SO2)
0.044 tpy of SO2

0.4 lb/hr of nitrogen oxides (NOx)
1.75 tpy of NOx

0.08 lb/hr of carbon monoxide (CO)
0.35 tpy of CO

0.02 lb/hr of volatile organic compounds (VOC)
0.09 tpy of VOC

from flare (stack FL1):

0.02 pound of particulates per million Btu of actual heat input
0.036 lb/hr of particulates
0.16 tpy of particulates

0.02 lb/hr of SO2
0.088 tpy of SO2

0.2 lb/hr of NOx
0.88 tpy of NOx

1.1 lbs/hr of CO
4.82 tpy of CO

2.8 lbs/hr of VOC
12.3 tpy of VOC

Applicable Compliance Method:

Compliance shall be determined through the use of AP-42 emission factors, from section 1.4, for natural gas combustion multiplied by the maximum hourly gas burning capacity of the emission unit and through the use of emission estimates from the Gas Research Institutes GLYCalc (Version 3) software program.

VI. Miscellaneous Requirements

1. This permit allows the use of the materials specified by the permittee in the application for PTI number 03-11165 for this emissions unit. In conjunction with the best available technology requirements of OAC rule 3745-31-05, the Benzene and Toluene emission limitation(s) specified in this permit were established in accordance with the Ohio EPA's "Air Toxics Policy" and are based on the Gas Research Institute's GRI Glycalc software, Version 3.0 and the design parameters of the emissions unit's exhaust system, as specified in the application. Compliance with the Ohio EPA's "Air Toxics Policy" was demonstrated for each pollutant based on the Screen 3.0 model and a comparison of the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

Pollutant: Benzene

TLV (ug/m3): 32000
Maximum Hourly Emission Rate (lbs/hr): 0.5
Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 3.03
MAGLC (ug/m3): 760

Pollutant: Toluene

TLV (ug/m3): 188,000
Maximum Hourly Emission Rate (lbs/hr): 0.6
Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 3.5
MAGLC (ug/m3): 4500

As long as the application of the "Air Toxics Policy" continues to show compliance with the applicable MAGLC and the permittee maintains documentation that identifies the change and the results of the application of the "Air Toxics Policy", the permittee may implement a change to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission rate specified in the terms and conditions of this permit], reduction of exhaust gas flow rate, and decreased stack height).

For any change to the emissions unit or its method of operation that would either require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a permit to install prior to the change.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: RECIP ENGINE/GENERATOR #082G1 (B005)

Activity Description: EMERGENCY GENERATOR : A NATURAL GAS-FIRED RECIPROCATING ENGINE GENERATING ELECTRICITY.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
large bore internal combustion engine fired with natural gas with a capacity of 2.88 mmBtu/hr	OAC rule 3745-17-11(B)(5)(b)	The particulate emissions from the engine's exhaust shall not exceed 0.062 pound per million Btu of actual heat input. See A.I.2.a below.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-18-06(B)	exempt See A.2.b below.

2. Additional Terms and Conditions

2.a The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

2.b This emissions unit is exempt from any sulfur dioxide emissions limitation required by OAC rule 3745-18-06 because the rated heat input capacity of the internal combustion engine is less than 10 million Btu per hour total rated capacity.

II. Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

0.062 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

Compliance with the particulate emissions limitation of 0.062 pound per million Btu of actual heat input is demonstrated by use of the AP-42, 5th Edition (supplement B) emission factor, table 3.2-2, for heavy duty natural gas fired pipeline compressor engines (0.029 pound of particulate emissions per million Btu of actual heat input).

If required, the permittee shall demonstrate compliance with the above particulate emissions limitation in accordance with the procedures and methods specified in OAC 3745-17-03(B)(10).

1.b Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
large bore internal combustion engine fired with natural gas with a capacity of 2.88 mmBtu/hr	OAC rule 3745-31-05 (PTI 03-4754)	4.2 lbs/hr of nitrogen oxides (NOx) 18.4 tpy of NOx

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitation in section B.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

4.2 lbs/hr of NOx
18.4 tpy of NOx

Applicable Compliance Method:

Compliance with the NOx emissions limitations shall be demonstrated by using the NOx emission factor from "Compilation of Air Pollutant Emission Factors, "Fifth Edition, AP-42, Fifth edition, section 3.2.

If required, the permittee shall demonstrate compliance with the above emissions limitation by testing of the exhaust gases using methods 1-4 and method 7 or 7e of 40 CFR, Part 60, Appendix A.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: RECIP ENGINE/INTEGRAL COMPR #08204 (P004)

Activity Description: PRIME MOVER : A NATURAL GAS-FIRED RECIPROCATING ENGINE COMPRESSING NATURAL GAS.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
large bore internal combustion engine fired with natural gas with a capacity of 14.8 mmBtu/hr	OAC rule 3745-17-11(B)(5)(b)	The particulate emissions from the engine's exhaust shall not exceed 0.062 pound per million Btu of actual heat input. See A.I.2.a below.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-18-06(A)	See A.II.1 below.

2. Additional Terms and Conditions

2.a The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

II. Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit which has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas which has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

0.062 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

Compliance with the particulate emissions limitation of 0.062 pound per million Btu of actual heat input is demonstrated by use of the AP-42, 5th Edition (supplement B) emission factor, table 3.2-2, for heavy duty natural gas fired pipeline compressor engines (0.029 pound of particulate emissions per million Btu of actual heat input).

If required, the permittee shall demonstrate compliance with the above particulate emissions limitation in accordance with the procedures and methods specified in OAC 3745-17-03(B)(10).

1.b Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

If required, the permittee shall demonstrate compliance with the above visible particulate emissions limitation pursuant to OAC rule 3745-15-04(A).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: RECIP ENGINE/INTEGRAL COMPR #08201 (Z002)

Activity Description: PRIME MOVER : A NATURAL GAS-FIRED RECIPROCATING ENGINE COMPRESSING NATURAL GAS.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
large bore internal combustion engine fired with natural gas with a capacity of 25.7 mmBtu/hr	OAC rule 3745-17-11(B)(5)(b)	The particulate emissions from the engine's exhaust shall not exceed 0.062 pound per million Btu of actual heat input. See A.I.2.a below.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-18-06(A)	See A.II.1 below.

2. Additional Terms and Conditions

2.a The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

II. Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit which has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas which has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

0.062 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

Compliance with the particulate emissions limitation of 0.062 pound per million Btu of actual heat input is demonstrated by use of the AP-42, 5th Edition (supplement B) emission factor, table 3.2-2, for heavy duty natural gas fired pipeline compressor engines (0.029 pound of particulate emissions per million Btu of actual heat input).

If required, the permittee shall demonstrate compliance with the above particulate emissions limitation in accordance with the procedures and methods specified in OAC 3745-17-03(B)(10).

1.b Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

If required, the permittee shall demonstrate compliance with the above visible particulate emissions limitation pursuant to OAC rule 3745-15-04(A).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: RECIP ENGINE/INTEGRAL COMPR #08202 (Z003)

Activity Description: PRIME MOVER : A NATURAL GAS-FIRED RECIPROCATING ENGINE COMPRESSING NATURAL GAS.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
large bore internal combustion engine fired with natural gas with a capacity of 14.8 mmBtu/hr	OAC rule 3745-17-11(B)(5)(b)	The particulate emissions from the engine's exhaust shall not exceed 0.062 pound per million Btu of actual heat input. See A.I.2.a below.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-18-06(A)	See A.II.1 below.

2. Additional Terms and Conditions

2.a The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

II. Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit which has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas which has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

0.062 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

Compliance with the particulate emissions limitation of 0.062 pound per million Btu of actual heat input is demonstrated by use of the AP-42, 5th Edition (supplement B) emission factor, table 3.2-2, for heavy duty natural gas fired pipeline compressor engines (0.029 pound of particulate emissions per million Btu of actual heat input).

If required, the permittee shall demonstrate compliance with the above particulate emissions limitation in accordance with the procedures and methods specified in OAC 3745-17-03(B)(10).

1.b Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

If required, the permittee shall demonstrate compliance with the above visible particulate emissions limitation pursuant to OAC rule 3745-15-04(A).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: TURBINE ENGINE/CENTRIF COMPR #08205 (Z004)

Activity Description: PRIME MOVER : A NATURAL GAS-FIRED TURBINE ENGINE COMPRESSING NATURAL GAS.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
turbine engine fired with natural gas with a capacity of 52.0 mmBtu/hr	OAC rule 3745-17-11(B)(4)	The particulate emissions from the engine's exhaust shall not exceed 0.040 pound per million Btu of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-18-06(A)	See A.II.1 below.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall burn only natural gas as fuel in this emissions unit which has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas which has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

0.04 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined using the emission factor of 0.0193 pound of particulates per million Btu of actual heat input. This emission factor was obtained from "Compilation of Air Pollutant Emission Factors, "Fifth Edition".

If required, the permittee shall demonstrate compliance with the above emissions limitation in accordance with the procedures and methods specified in OAC rule 3745-17-03(B)(10).

1.b Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

If required, the permittee shall demonstrate compliance with the above visible particulate emissions limitation pursuant to OAC rule 3745-15-04(A).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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