



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center  
122 S. Front Street  
Columbus, OH 43215

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

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049  
Columbus, OH 43216-1049

05/15/02

**RE: Proposed Title V Chapter 3745-77 Permit  
03-70-00-0228  
WEAVER COMPRESSOR STATION**

Attn: Genevieve Damico AR-18J  
United States Environmental Protection Agency  
Region V  
77 West Jackson Blvd.  
Chicago, IL 60604-3590

Dear Ms. Damico:

The proposed issuance of the Title V permit for WEAVER COMPRESSOR STATION, has been created in Ohio EPA's State Air Resources System (STARS) on 05/15/02, for review by USEPA. This proposed action is identified in STARS as  3-Title V Proposed Permit T+C covering the facility specific terms and conditions, and  Title V Proposed Permit covering the general terms and conditions. This proposed permit will be processed for issuance as a final action after forty-five (45) days from USEPA's receipt of this certified letter if USEPA does not object to the proposed permit. Please contact Mike Ahern, DAPC Permit Management Unit supervisor at (614) 644-3631 by the end of the forty-five (45) day review period if you wish to object to the proposed permit.

Very truly yours,



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

cc: Northwest District Office  
File, DAPC PMU



State of Ohio Environmental Protection Agency

**PROPOSED TITLE V PERMIT**

<b>Issue Date:</b> 05/15/02	<b>Effective Date:</b> To be entered upon final issuance	<b>Expiration Date:</b> To be entered upon final issuance
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This document constitutes issuance of a Title V permit for Facility ID: 03-70-00-0228 to:  
**WEAVER COMPRESSOR STATION**  
 Environmental Affairs Department  
 1700 MacCorkle Avenue, S.E.  
 Charleston, WV 25325

**Emissions Unit ID (Company ID)/Emissions Unit Activity Description**

B003 (HEATER #1) LINE HEATER: A NATURAL GAS-FIRED INDIRECT PROCESS HEATER.	EMERGENCY GENERATOR : A NATURAL GAS-FIRED RECIPROCATING ENGINE GENERATING ELECTRICITY.	P006 (RECIP ENGINE/INTEGRAL COMPR #08202) PRIME MOVER : A NATURAL GAS-FIRED RECIPROCATING ENGINE COMPRESSING NATURAL GAS.
P001 (TEG DEHY #1) NATURAL GAS DEHYDRATOR SYSTEM : ABSORBER TOWER & REGENERATOR STILL W/ BOILER.	P004 (RECIP ENGINE/INTEGRAL COMPR #08204) PRIME MOVER : A NATURAL GAS-FIRED RECIPROCATING ENGINE COMPRESSING NATURAL GAS.	P007 (TURBINE ENGINE/CENTRIF COMPR #08205) PRIME MOVER : A NATURAL GAS-FIRED TURBINE ENGINE COMPRESSING NATURAL GAS.
P002 (RECIP ENGINE/INTEGRAL COMPR #08203) PRIME MOVER : A NATURAL GAS-FIRED RECIPROCATING ENGINE COMPRESSING NATURAL GAS.	P005 (RECIP ENGINE/INTEGRAL COMPR #08201) PRIME MOVER : A NATURAL GAS-FIRED RECIPROCATING ENGINE COMPRESSING NATURAL GAS.	
P003 (RECIP ENGINE/GENERATOR #082G1)		

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 3745-77-08(E) 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**

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Christopher Jones  
 Director

## PART I - GENERAL TERMS AND CONDITIONS

### A. *State and Federally Enforceable Section*

#### 1. **Monitoring and Related Record Keeping 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.  
*(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))*
- 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.  
*(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))*
- 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 record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.  
*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*
  - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and record keeping 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 (in part) of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and the requirements of 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.6 below if no deviations occurred during the quarter.  
*(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii))*

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, record keeping, and reporting requirements 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, record keeping, 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.  
*(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii))*
- 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.  
*(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))*

## 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 condition, of any emissions unit(s) 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 upset conditions.

Except as provided in OAC rule 3745-15-06, 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).

*(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iii))*

## 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.

*(Authority for term: OAC rule 3745-77-07(A)(4))*

## 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.

*(Authority for term: OAC rule 3745-77-07(A)(5))*

**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.

*(Authority for term: OAC rule 3745-77-07(A)(6))*

**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, in accordance with A.10 below. 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.

*(Authority for term: OAC rule 3745-77-07(A)(7))*

**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.

*(Authority for term: OAC rule 3745-77-07(A)(8))*

**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.

*(Authority for term: OAC rule 3745-77-07(A)(9))*

**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.

*(Authority for term: OAC rule 3745-77-07(A)(10))*

**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 (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 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.

*(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))*

**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.

*(Authority for term: OAC rule 3745-77-07(B))*

**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 Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA 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.

*(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))*

**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.

*(Authority for term: OAC rule 3745-77-07(F))*

**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).

*(Authority for term: OAC rules 3745-77-07(H)(1) and (2))*

**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.

*(Authority for term: OAC rule 3745-77-07(G))*

**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 of the U.S. EPA, 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 purposes of clarification, the permittee can refer to Engineering Guide #63 that is available in the STARSHIP software package.)

*(Authority for term: OAC rule 3745-77-07(I))*

**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.

*(This term is provided for informational purposes only.)*

**18. Insignificant Activities**

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.

*(Authority for term: OAC rule 3745-77-07(A)(1))*

**19. Permit to Install Requirement**

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

*(Authority for term: OAC rule 3745-77-07(A)(1))*

**20. 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.

*(Authority for term: OAC rule 3745-77-07(A)(1))*

**B. *State Only Enforceable Section***

**1. Reporting Requirements Related to Monitoring and Record Keeping Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except 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 restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping 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 be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. 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. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**2. Records Retention Requirements**

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, but not be limited to, 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.

**3. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. 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 verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**4. 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).

**5. 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.

**6. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable 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:** 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
12.4 mmBtu/hr, natural gas-fired line heater	OAC rule 3745-31-05(A)(3) (PTI # 03-2409)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-10(B)(1), 3745-17-07(A), 3745-18-06(A), 3745-21-08(B) and 3745-23-06(B).
	OAC rule 3745-17-10(B)(1)	0.020 lb particulate emissions (PE)/mmBtu actual heat input
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rules 3745-21-08(B) and 3745-23-06(B)	See A.I.2.a.
	OAC rule 3745-18-06(A)	See A.I.2.b.

##### 2. Additional Terms and Conditions

- 2.a The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 03-2409.
- 2.b OAC rule 3745-18-06(A) does not establish sulfur dioxide emission limitations for this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

##### II. Operational Restrictions

1. The permittee shall burn only natural gas 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.

### V. Testing Requirements

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

- 1.a Emission Limitation:  
0.020 lb PE/mmBtu actual heat input

Applicable Compliance Method:

The permittee may demonstrate compliance with the lb PE/mmBtu allowable limitation above by multiplying an emission factor from AP-42, Table 1.4-2 (revised 7/98) of 1.9 lbs PE (filterable)/mm cu.ft of natural gas by the emissions unit's maximum hourly natural gas consumption rate (12,400 cu.ft/hr), and then dividing by the maximum heat input rate of the emissions unit (12.4 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the PE limitation above pursuant to OAC rule 3745-17-03(B)(9).

- 1.b Emission Limitation:  
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the visible PE limitation above in accordance with the methods 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**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:** TEG DEHY #1 (P001)

**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**

- 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
triethylene glycol natural gas dehydrator with regeneration boiler and flare	40 CFR Part 63, Subpart HHH	See A.I.2.a.
	OAC rule 3745-21-07(G)	See A.I.2.b.
	OAC rules 3745-23-06(B) and 3745-21-08(B)	See A.I.2.c.
	OAC rule 3745-31-05 (A)(3) (PTI # 03-11165)	emissions from the flare stack (stack FL1):
		0.02 lb particulate emissions(PE)/hr, 0.09 ton PE/yr See A.I.2.e.
		0.17 lb sulfur dioxide(SO <sub>2</sub> )/hr, 0.74 ton SO <sub>2</sub> /yr
		0.20 lb nitrogen oxides(NO <sub>x</sub> )/hr, 0.88 ton NO <sub>x</sub> /yr
	1.08 lbs carbon monoxide(CO)/hr, 4.73 tons CO/yr	
	0.77 lb volatile organic compounds (VOC)/hr, 3.37 tons VOC/yr	
	See A.II.1.	

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
		emissions from the boiler stack (stack BL2):
		0.01 lb PE/hr, 0.04 ton PE/yr
		0.10 lb SO <sub>2</sub> /hr, 0.44 ton SO <sub>2</sub> /yr
		0.18 lb NO <sub>x</sub> /hr, 0.77 ton NO <sub>x</sub> /yr
		0.15 lb CO/hr, 0.66 ton CO/yr
		0.01 lb VOC/hr, 0.04 ton VOC/yr
		See A.I.2.d.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/mmBtu actual heat input (for stack BL2)
	OAC rule 3745-17-07 (A)	Visible emissions shall not exceed 20 percent opacity, as a six minute average, except as otherwise provided by rule (for stack BL2).
	OAC rule 3745-18-06(A)	See A.I.2.i (for stack BL2).
	OAC rule 3745-18-06(E)	See A.I.2.j (for stack FL1).
	OAC rule 3745-17-11 (B)	See A.I.2.g (for stack FL1).
	OAC rule 3745-17-07 (A)	See A.I.2.h (for stack FL1).
	OAC rule 3745-31-05 (D) (PTI # 03-11165)	0.21 lb benzene/hr, 0.92 ton benzene/yr (See A.I.2.a.)

**2. Additional Terms and Conditions**

- 2.a** The permittee has requested a federally enforceable limitation of 0.92 ton benzene per rolling, 12-month summation, based on a 98 percent destruction efficiency of the flare, for purposes of avoiding the control requirements of 40 CFR, Part 63, Subpart HHH in accordance with 40 CFR 63.1274 (d)(2). Hence, there are no requirements established pursuant to 40 CFR 63.1274 (d)(2) because the benzene emissions from this emissions unit are limited to less than 1 ton per year.
- 2.b** The emissions unit is designed to use only glycol, which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install # 03-11165.
- 2.d** The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(D), 3745-17-(10)(B) and 3745-17-07(A), and 40 CFR, Part 63, Subpart HHH.
- 2.e** All of the PE are assumed to be particulate matter less than 10 microns in size (PM10).
- 2.g** The uncontrolled mass rate of PE\* from Stack FL1 are less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11 (A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight rate is equal to zero. "Process weight" is defined in OAC rule 3745-17-01 (B)(14).

\* The burning of natural gas is the only source of PE from this emissions unit.

## **2. Additional Terms and Conditions (continued)**

- 2.h** The emissions from Stack FL1 are exempt from the visible PE limitations specified in OAC rule 3745-17-07 (A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.i** OAC rule 3745-18-06(A) does not establish sulfur dioxide emission limitations for this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).
- 2.j** There are no sulfur dioxide emission limitations established by OAC Chapter 3745-18 for equipment associated with this emissions unit that are not considered "fuel burning equipment" because the process weight rate is less than 1,000 pounds/hour.

## **II. Operational Restrictions**

- 1.** The flare shall be operated and maintained in accordance with the following:
  - 1.a** The flare shall be designed for and operated with no visible emissions as determined by "Method 22, 40 CFR, Part 60, Appendix A," except for periods not to exceed a total of five minutes during any 120 consecutive minutes.
  - 1.b** The flare shall be operated with either an electric arc ignition system or a pilot flame. If a pilot flame is employed, the flame shall be present at all times. If an electric arc ignition system is employed, the arcing shall pulse continually.
  - 1.c** The net heating value of the gas being controlled in the flare, as determined by the method specified in Paragraph (P) (2) of Rule 3745-21-10 of the Administrative Code, shall be 200 Btu/scf or greater.
  - 1.d** The flare shall be designed and operated with an actual exit velocity, as determined by the method specified in Paragraph (P) (3) of Rule 3745-21-10 of the Administrative Code, less than 60 feet per second.
  - 1.e** The permittee shall ensure the flare is operated and maintained in conformance with its design.
- 2.** The permittee shall burn natural gas as the singular fuel supplement for this emissions unit.

## **III. Monitoring and/or Record Keeping Requirements**

- 1.** For each day during which the permittee burns a supplemental fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2.** The flare shall be monitored with a thermocouple or any other equivalent device to detect the presence of a pilot flame. If an electric arc ignition system is employed, the arcing shall be monitored to detect any failure.
- 3.** The permittee shall properly 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 calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall record the following information each day:

- 3.a** All periods of time during which there was no pilot flame.
- 3.b** A log of the downtime for the flare and monitoring equipment when the associated emissions unit is in operation.
- 4.** The permittee shall collect and record the following information each month for this emissions unit:
  - 4.a** the benzene emissions, in pounds, calculated using GRI's GLYCalc, version 3.0 computer program; and

### III. Monitoring and/or Record Keeping Requirements (continued)

- 4.b the rolling, 12-month summation of the monthly benzene emission rates, in tons.
5. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from all the stacks serving this emissions unit, including the flare. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- the location and color of the emissions;
  - whether the emissions are representative of normal operations;
  - if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - the total duration of any visible emission incident; and
  - any corrective actions taken to eliminate the visible emissions.

At any time the permittee observes visible emissions from the flare, the permittee shall monitor the visible emissions for a minimum period of 30 minutes in accordance with 40 CFR, Part 60, Appendix A, Method 22 and record the results in an operations log.

### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- all periods of time during which there was no pilot flame (the reports shall include the date, time, and duration of each such occurrence); and
  - all exceedances of the rolling, 12-month benzene emission limitation of 0.92 ton.

The quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

2. The permittee shall submit deviation (excursion) reports that identify each day when a supplemental fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The permittee shall submit annual written reports that summarize the actual annual OC (benzene) emissions. The reports shall be submitted by January 31 of each year, shall include the calculations, and shall cover the previous calendar year.
4. The permittee shall submit quarterly summaries that include a log of the downtime for the flare and monitoring equipment when the associated emissions unit was in operation.
5. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from any stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the appropriate Ohio EPA District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
6. The permittee shall submit quarterly reports that include all visible emission readings conducted pursuant to 40 CFR, Part 60, Appendix A, Method 22 as a result of the presence of visible emissions from the flare. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

### 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 Limitations:  
Stack FL1 - 0.02 lb PE/hr; 0.09 ton PE/yr

**Applicable Compliance Method:**

The permittee may determine compliance with hourly allowable PE emission limitation by multiplying the AP-42 emission factor from Table 1.4-2, (revised 7/98) of 1.9 lb PE (filterable)/mm cu. ft. by the maximum natural gas consumption rate of 0.0 0292 mm cu. ft./hr.

If required, the permittee shall demonstrate compliance with the PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760 and dividing by 2000).

- 1.b** Emission Limitations:  
Stack FL1 - 0.17 lb SO<sub>2</sub>/hr; 0.74 ton SO<sub>2</sub>/yr

**Applicable Compliance Method:**

The permittee may determine compliance with the hourly allowable SO<sub>2</sub> emission limitation by multiplying the maximum firing capacity (2.92 mmBtu/hr) by a company-supplied emission factor of 0.0571 lb SO<sub>2</sub>/mmBtu. [The emission limitation accounts for combustion from the natural gas pilot flame.]

If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 6.

Compliance with the annual allowable SO<sub>2</sub> limitation shall be assumed as long as compliance with the hourly allowable SO<sub>2</sub> emission limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760 and dividing by 2000).

- 1.c** Emission Limitations:  
Stack FL1 - 0.20 lb NO<sub>x</sub>/hr; 0.88 ton NO<sub>x</sub>/yr

**Applicable Compliance Method:**

The permittee may determine compliance with the hourly allowable NO<sub>x</sub> emission limitation by multiplying the maximum firing capacity (2.92 mmBtu/hr) by the AP-42 emission factor from Table 13.5-1 (revised 1/95) of 0.068 lb NO<sub>x</sub>/mmBtu.

If required, the permittee shall demonstrate compliance with the hourly allowable NO<sub>x</sub> emission limitation pursuant to Methods 1 - 4 and 7 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable NO<sub>x</sub> limitation shall be assumed as long as compliance with the hourly allowable NO<sub>x</sub> emission limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760 and dividing by 2000).

- 1.d** Emission Limitations:  
Stack FL1 - 1.08 lbs CO/hr; 4.73 tons CO/yr

**Applicable Compliance Method:**

The permittee may determine compliance with the hourly allowable CO emission limitation by multiplying the maximum firing capacity (2.92 mmBtu/hr) by the AP-42 emission factor from Table 13.5-1 (revised 1/95) of 0.37 lb CO/mmBtu.

If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 10.

Compliance with the annual allowable CO limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760 and dividing by 2000).

## V. Testing Requirements (continued)

- 1.e** Emission Limitations:  
Stack FL1 - 0.77 lb VOC/hr; 3.37 tons VOC/yr

**Applicable Compliance Method:**

The permittee may demonstrate compliance with the hourly allowable VOC emission limitation by employing the GRI's GLYCalc, version 3 computer program and a flare control efficiency of 98 percent, by weight.

The permittee may also demonstrate compliance by multiplying the AP-42 emission factor, from Table 13.5-1 (revised 1/95), of 0.14 lb VOC/mmBtu by the maximum firing capacity (2.92 mmBtu/hr).

Compliance with the annual allowable VOC limitation shall be assumed as long as compliance with the hourly allowable VOC emission limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760 and dividing by 2000).

- 1.f** Emission Limitations:  
Stack FL1 - 0.21 lb benzene/hr; 0.92 ton benzene/rolling, 12-month period

**Applicable Compliance Method:**

The permittee may demonstrate compliance with the hourly allowable benzene emission limitation by employing the GRI's GLYCalc, version 3 computer program and a flare control efficiency of 98 percent, by weight.

Compliance with the annual allowable benzene emission limitation may be determined based upon the record keeping requirements specified in section A.III.4 of the terms and conditions of this permit.

- 1.g** Emission Limitation:  
Stack BL2 - 0.02 lb PE/mmBtu actual heat input

**Applicable Compliance Method:**

The permittee may determine compliance with the lb PE/mmBtu allowable limitation above by multiplying an emission factor from AP-42, Table 1.4-2 (revised 7/98) of 1.9 lbs PE (filterable)/mm cu.ft of natural gas by the emissions unit's maximum hourly natural gas consumption rate (0.0018 mm cu.ft/hr), and then dividing by the maximum heat input rate of the emissions unit (1.8 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the PE limitation above pursuant to OAC rule 3745-17-03(B)(9).

- 1.h** Emission Limitations:  
Stack BL2 - 0.01 lb PE/hr; 0.04 ton PE/yr

**Applicable Compliance Method:**

The permittee may determine compliance by multiplying an emission factor, from AP-42, Table 1.4-2 (revised 7/98), of 1.9 lbs PE (filterable)/mm cu. ft. by the maximum natural gas consumption rate of 0.0018 mm cu. ft./hr.

If required, the permittee shall demonstrate compliance with the PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE emission limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760 and dividing by 2000).

**V. Testing Requirements (continued)**

- 1.i** Emission Limitations:  
Stack BL2 - 0.10 lb SO<sub>2</sub>/hr; 0.44 ton SO<sub>2</sub>/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance by multiplying the maximum firing capacity (1.8 mmBtu/hr) by a company-supplied emission factor of 0.0571 lb SO<sub>2</sub>/mmBtu.

If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 6.

Compliance with the annual allowable SO<sub>2</sub> limitation shall be assumed as long as compliance with the hourly allowable SO<sub>2</sub> emission limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760 and dividing by 2000).

- 1.j** Emission Limitations:  
Stack BL2 - 0.18 lb NO<sub>x</sub>/hr; 0.77 tons NO<sub>x</sub>/yr

Applicable Compliance Method:

The permittee may determine compliance by multiply the AP-42 emission factor, from AP-42, Table 1.4-1 (revised 7/98), of 100 lbs NO<sub>x</sub>/mm cu. ft. by the maximum natural gas consumption rate of 0.0018 mm cu. ft./hr.

If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 7.

Compliance with the annual allowable NO<sub>x</sub> limitation shall be assumed as long as compliance with the hourly allowable NO<sub>x</sub> emission limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760 and dividing by 2000).

- 1.k** Emission Limitations:  
Stack BL2 - 0.15 lb CO/hr; 0.66 ton CO/yr

Applicable Compliance Method:

The permittee may determine compliance by multiplying the AP-42 emission factor, from AP-42, Table 1.4-1(revised 7/98), of 84 lb CO/mm cu. ft. by the maximum natural gas consumption rate of 0.0018 mm cu. ft./hr.

If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 5 and 10.

Compliance with the annual allowable CO limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760 and dividing by 2000).

- 1.l** Emission Limitations:  
Stack BL2 - 0.01 lb VOC/hr; 0.04 ton VOC/yr

Applicable Compliance Method:

The permittee may determine compliance by multiplying the AP-42 emission factor, from AP-42, Table 1.4-2 (revised 7/98), of 5.5 lbs VOC/mm cu. ft. by the maximum natural gas consumption rate of 0.0018 mm cu. ft./hr.

If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 18, 25, or 25A, as appropriate.

Compliance with the annual allowable VOC limitation shall be assumed as long as compliance with the hourly allowable VOC emission limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760 and dividing by 2000).

Facility Name: **WEAVER COMPRESSOR STATION**

Facility ID: **03-70-00-0228**

Emissions Unit: **TEG DEHY #1 (P001)**

**V. Testing Requirements (continued)**

**1.m** Emission Limitation:  
Visible PE emissions shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the visible PE limitation in accordance with the methods 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**

- 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
triethylene glycol natural gas dehydrator with regeneration boiler and flare	none	none

**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

- The permit to install for this emissions unit (P001) was evaluated 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 permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the Screen 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

Pollutant: Benzene

TLV (ug/m3): 32,000

Maximum Hourly Emission Rate (lbs/hr): 0.5

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3.03

MAGLC (ug/m3): 762

Pollutant: Toluene

TLV (ug/m3): 188,000

Maximum Hourly Emission Rate (lbs/hr): 0.6

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3.5

MAGLC (ug/m3): 4,476

### **III. Monitoring and/or Record Keeping Requirements (continued)**

- 2.** Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
  - 2.a** changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
  - 2.b** changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
  - 2.c** physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

- 3.** The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy":
  - 3.a** a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
  - 3.b** documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
  - 3.c** where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

### **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 #08203 (P002)  
**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
1,500 hp (14.8 mmBtu/hr) natural gas-fired large internal combustion engine	OAC rule 3745-17-11(B)(5)(b)	0.062 lb particulate emissions (PE)/mmBtu of actual heat input (See A.I.2.a.)
	OAC rule 3745-17-07(A)	0.35 lb PE/mmBtu of actual heat input (See A.I.2.b.) Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-18-06(G)	exempt, pursuant to OAC rule 3745-18-06(A) (See A.I.2.c.)

#### 2. Additional Terms and Conditions

- 2.a This PE limitation shall be effective and federally enforceable on the date the U.S. EPA approves this PE limitation as a revision to the Ohio SIP for particulate matter.
- 2.b The requirement to comply with this PE limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/mmBtu actual heat input emission limitation as a revision to the Ohio State Implementation Plan (SIP) for particulate matter.
- 2.c Since natural gas is the only fuel fired in this emissions unit, it is exempt from the sulfur dioxide emission limitation in OAC rule 3745-18-06(G), pursuant to OAC rule 3745-18-06(A). However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

### 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.

#### **V. Testing Requirements**

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

- 1.a Emission Limitations:  
0.35 lb PE/mmBtu of actual heat input  
0.062 lb PE/mmBtu of actual heat input

Applicable Compliance Method:

The permittee may determine compliance with the PE limitations above based on an emission factor from AP-42, Table 3.2-1 (revised 7/00) of 0.0384 lb PE (filterable)/mmBtu of actual heat input.

If required, the permittee shall demonstrate compliance with the PE limitations above in accordance with Methods in OAC rule 3745-17-03(B)(10).

- 1.b Emission Limitation:  
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the visible PE limitation above in accordance with the methods 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**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/GENERATOR #082G1 (P003)

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2.88 mmBtu/hr (375 HP), natural gas-fired stationary small internal combustion engine	OAC rule 3745-31-05(A)(3) (PTI# 03-4754)	4.2 lbs nitrogen oxides (NOx)/hr, 18.4 tons NOx/yr  The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B)(5)(a), 3745-17-07(A), 3745-23-06(B) and 3745-21-08(B).
	OAC rule 3745-17-11(B)(5)(a)	0.310 lb particulate emissions (PE)/mmBtu actual heat input (See A.I.2.a.)
	OAC rule 3745-17-07(A)	0.25 lb PE/mmBtu actual heat input (See A.I.2.b.) Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-18-06(G)	exempt, pursuant to OAC rules 3745-18-06(A) and 3745-18-06(B). (See A.I.2.c.)
	OAC rules 3745-21-08(B) and 3745-23-06(B)	See A.I.2.e.

##### 2. Additional Terms and Conditions

- 2.a The PE limitation shall be effective and federally enforceable on the date the U.S. EPA approves this PE limitation as a revision to the Ohio State Implementation Plan (SIP) for particulate matter.
- 2.b The requirement to comply with this PE limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.

## **2. Additional Terms and Conditions (continued)**

- 2.c** Since the rated heat input capacity for this emissions unit is less than 10 mmBtu/hr, this emissions unit is exempt from the sulfur dioxide emission limitation in OAC rule 3745-18-06(G), pursuant to OAC rule 3745-18-06(B). Also, since natural gas is the only fuel fired in this emissions unit, it is exempt from the sulfur dioxide emission limitation in OAC rule 3745-18-06(G), pursuant to OAC rule 3745-18-06(A). However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).
- 2.d** The hourly allowable emission limitations for NOx were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, no record keeping, monitoring and reporting requirements are necessary to ensure compliance with these limitations.
- 2.e** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 03-4754.

## **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.

## **V. Testing Requirements**

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

- 1.a** Emission Limitations:  
0.31 lb PE/mmBtu of actual heat input  
0.25 lb PE/mmBtu of actual heat input

**Applicable Compliance Method:**

The permittee may determine compliance with the PE limitations above based on an emission factor from AP-42, Table 3.2-2 (revised 7/00) of 0.000771 lb PE (filterable)/mmBtu of actual heat input.

If required, the permittee shall demonstrate compliance with the PE limitations above in accordance with Methods in OAC rule 3745-17-03(B)(10).

- 1.b** Emission Limitation:  
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

**Applicable Compliance Method:**

If required, the permittee shall demonstrate compliance with the visible PE limitation above in accordance with the methods specified in OAC rule 3745-17-03(B)(1).

## **V. Testing Requirements (continued)**

- 1.c** Emission Limitations:  
4.2 lbs NO<sub>x</sub>/hr, 18.4 tons NO<sub>x</sub>/yr

**Applicable Compliance Method:**

If required, compliance with the hourly allowable NO<sub>x</sub> emission limitation shall be determined in accordance with Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.

The permittee may also determine compliance with the hourly allowable NO<sub>x</sub> emission limitation by multiplying the appropriate emission factor from AP-42, Table 3.2-2 (revised 7/00) by the maximum hourly heat input rate (2.88 mmBtu/hr).

Provided compliance is shown with the hourly allowable NO<sub>x</sub> emission limitation, compliance with the annual limitation shall be ensured (the annual allowable limitation was developed by multiplying the hourly allowable limitation by 8760, and then dividing by 2000).

## **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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**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 #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

- 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
1,500 hp (14.8 mmBtu/hr) natural gas-fired large internal combustion engine	OAC rule 3745-17-11(B)(5)(b)	0.062 lb particulate emissions (PE)/mmBtu of actual heat input (See A.I.2.a.)
		0.35 lb PE/mmBtu of actual heat input (See A.I.2.b.)
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-18-06(G)	exempt, pursuant to OAC rule 3745-18-06(A) (See A.I.2.c.)

##### 2. Additional Terms and Conditions

- This PE limitation shall be effective and federally enforceable on the date the U.S. EPA approves this PE limitation as a revision to the Ohio SIP for particulate matter.
- The requirement to comply with this PE limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/mmBtu actual heat input emission limitation as a revision to the Ohio State Implementation Plan (SIP) for particulate matter.
- Since natural gas is the only fuel fired in this emissions unit, it is exempt from the sulfur dioxide emission limitation in OAC rule 3745-18-06(G), pursuant to OAC rule 3745-18-06(A). However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

##### II. Operational Restrictions

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

##### III. Monitoring and/or Record Keeping Requirements

- 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.

#### **V. Testing Requirements**

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

- 1.a Emission Limitations:  
0.35 lb PE/mmBtu of actual heat input  
0.062 lb PE/mmBtu of actual heat input

Applicable Compliance Method:

The permittee may determine compliance with the PE limitations above based on an emission factor from AP-42, Table 3.2-1 (revised 7/00) of 0.0384 lb PE (filterable)/mmBtu of actual heat input.

If required, the permittee shall demonstrate compliance with the PE limitations above in accordance with Methods in OAC rule 3745-17-03(B)(10).

- 1.b Emission Limitation:  
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the visible PE limitation above in accordance with the methods 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**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 (P005)  
**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

- 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2,700 hp (25.7 mmBtu/hr) natural gas-fired large internal combustion engine	OAC rule 3745-17-11(B)(5)(b)	0.062 lb particulate emissions (PE)/mmBtu of actual heat input (See A.I.2.a.)
	OAC rule 3745-17-07(A)	0.35 lb PE/mmBtu of actual heat input (See A.I.2.b.)
	OAC rule 3745-18-06(G)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule. exempt, pursuant to OAC rule 3745-18-06(A) (See A.I.2.c.)

##### 2. Additional Terms and Conditions

- This PE limitation shall be effective and federally enforceable on the date the U.S. EPA approves this PE limitation as a revision to the Ohio SIP for particulate matter.
- The requirement to comply with this PE limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/mmBtu actual heat input emission limitation as a revision to the Ohio State Implementation Plan (SIP) for particulate matter.
- Since natural gas is the only fuel fired in this emissions unit, it is exempt from the sulfur dioxide emission limitation in OAC rule 3745-18-06(G), pursuant to OAC rule 3745-18-06(A). However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

##### II. Operational Restrictions

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

##### III. Monitoring and/or Record Keeping Requirements

- 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.

#### **V. Testing Requirements**

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

- 1.a Emission Limitations:  
0.35 lb PE/mmBtu of actual heat input  
0.062 lb PE/mmBtu of actual heat input

Applicable Compliance Method:

The permittee may determine compliance with the PE limitations above based on an emission factor from AP-42, Table 3.2-1 (revised 7/00) of 0.0384 lb PE (filterable)/mmBtu of actual heat input.

If required, the permittee shall demonstrate compliance with the PE limitations above in accordance with Methods in OAC rule 3745-17-03(B)(10).

- 1.b Emission Limitation:  
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the visible PE limitation above in accordance with the methods 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**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 (P006)  
**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2,700 hp (25.7 mmBtu/hr) natural gas-fired large internal combustion engine	OAC rule 3745-17-11(B)(5)(b)	0.062 lb particulate emissions (PE)/mmBtu of actual heat input (See A.I.2.a.)
	OAC rule 3745-17-07(A)	0.35 lb PE/mmBtu of actual heat input (See A.I.2.b.) Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-18-06(G)	exempt, pursuant to OAC rule 3745-18-06(A) (See A.I.2.c.)

##### 2. Additional Terms and Conditions

- 2.a This PE limitation shall be effective and federally enforceable on the date the U.S. EPA approves this PE limitation as a revision to the Ohio SIP for particulate matter.
- 2.b The requirement to comply with this PE limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/mmBtu actual heat input emission limitation as a revision to the Ohio State Implementation Plan (SIP) for particulate matter.
- 2.c Since natural gas is the only fuel fired in this emissions unit, it is exempt from the sulfur dioxide emission limitation in OAC rule 3745-18-06(G), pursuant to OAC rule 3745-18-06(A). However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

##### 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.

#### **V. Testing Requirements**

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

- 1.a Emission Limitations:  
0.35 lb PE/mmBtu of actual heat input  
0.062 lb PE/mmBtu of actual heat input

Applicable Compliance Method:

The permittee may determine compliance with the PE limitations above based on an emission factor from AP-42, Table 3.2-1 (revised 7/00) of 0.0384 lb PE (filterable)/mmBtu of actual heat input.

If required, the permittee shall demonstrate compliance with the PE limitations above in accordance with Methods in OAC rule 3745-17-03(B)(10).

- 1.b Emission Limitation:  
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the visible PE limitation above in accordance with the methods 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**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 (P007)

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
3,830 hp (52.0 mmBtu/hr) natural gas-fired turbine engine	OAC rule 3745-17-11(B)(4)	The particulate emissions from the engine's exhaust shall not exceed 0.04 lb PE/mmBtu of actual heat input.
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-18-06(F)	exempt, pursuant to OAC rule 3745-18-06(A) (See A.1.2.c.)

##### 2. Additional Terms and Conditions

- 2.a Since natural gas is the only fuel fired in this emissions unit, it is exempt from the sulfur dioxide emission limitation in OAC rule 3745-18-06(F), pursuant to OAC rule 3745-18-06(A). However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

##### 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.

##### V. Testing Requirements

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

**V. Testing Requirements (continued)**

- 1.a** Emission Limitations:  
0.04 lb PE/mmBtu of actual heat input

Applicable Compliance Method:

The permittee may determine compliance with the PE limitations above based on an emission factor from AP-42, Table 3.1-2a (revised 4/00) of 0.0019 lb PE (filterable)/mmBtu of actual heat input.

If required, the permittee shall demonstrate compliance with the PE limitations above in accordance with Methods in OAC rule 3745-17-03(B)(10).

- 1.b** Emission Limitation:  
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the visible PE limitation above in accordance with the methods 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**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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