



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center  
50 West Town Street, Suite 700  
Columbus, OH 43215

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Mailing Address:

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

02/09/07

**CERTIFIED MAIL**

**RE: Preliminary Proposed Title V  
Chapter 3745-77 permit**

01-23-00-0137  
CRAWFORD COMPRESSOR STATION  
Kasey Gabbard  
Environmental Health and Safety  
P. O. Box 1273  
Charleston, WV 25325-1273

Dear Kasey Gabbard:

Enclosed is the Ohio EPA Preliminary Proposed Title V permit that was issued in draft form on 11/03/06. The comment period for the Draft permit has ended. We are now ready to submit this permit to USEPA for approval.

We are submitting this for your review and comment. If you do not agree with the Preliminary Proposed Title V permit as written, you now have the opportunity to raise your concerns. **In order to facilitate our review of all the comments or concerns you may have with the enclosed preliminary proposed permit, please provide a hand marked-up copy of the permit showing the changes you think are necessary, along with any additional summary comments, within fourteen (14) days from your receipt of this letter to:**

**Andrew Hall  
Permit Review/Development Section  
Ohio EPA, Division of Air Pollution Control  
50 West Town Street, Suite 700  
P.O. Box 1049  
Columbus, Ohio 43215**

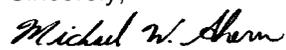
and

Central District Office  
122 South Front Street  
Columbus, OH 43215  
(614) 728-3778

Also, if you believe that it is necessary to have an informal conference with us, then, as part of your written comments, you should request a conference concerning the written comments.

If comments are not submitted within fourteen (14) days of your receipt of this letter, we will forward the proposed permit to USEPA for approval. All comments received will be carefully considered before proceeding to the proposed permit.

Sincerely,

  
Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

cc: Central District Office  
File, DAPC PIER



State of Ohio Environmental Protection Agency

PRELIMINARY PROPOSED TITLE V PERMIT

Issue Date: 02/09/07

Effective Date: To be entered upon final issuance

Expiration Date: To be entered upon final issuance

This document constitutes issuance of a Title V permit for Facility ID: 01-23-00-0137 to:
CRAWFORD COMPRESSOR STATION
Environmental Health and Safety
1700 MacCorkle Avenue, S.E.
Charleston, WV 25314

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

Table with 3 columns: Emissions Unit ID (Company ID), Emissions Unit Activity Description, and Emissions Unit Activity Description. Rows include units B004, B005, B010, B011, B012, B013, B015, B016, B017, B018, B019, B020, B021, B022, B023, B024, B025, B026, B027, B032, P002, P003, and Z002.

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

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

Central District Office  
122 South Front Street  
Columbus, OH 43215  
(614) 728-3778

Ohio Environmental Protection Agency

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Chris Korleski  
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, i.e., in Section A.III of Part III of this Title V permit, 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. The permittee shall submit required reports in the following manner:

- i. **All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:**

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year in accordance with General Term and Condition A.1.c.ii below; and each report shall cover the previous calendar quarter (An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c)).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) constitutes a violation of an emission limitation (or control requirement) and, therefore, is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those

reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

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

- ii. **Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.IV of Part III of this Title V permit or, in some cases, in Part II of this Title V permit, all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this General Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this General Term and Condition.

See B.6 below if no deviations occurred during the quarter.

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

- iii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with General Term and Condition A.1.c.ii above shall be submitted in the following manner:**

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; General Terms and Conditions: A.2, A.3, A.4, A.6.e, A.7, A.12, A.14, A.18, A.19, A.20, and A.22 of Part I of this Title V permit, as well as any deviations from the requirements in Section A.V or A.VI of Part III of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with General Term and Condition A.1.c.ii above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by

permit or rule for the insignificant activities or emissions levels (IEU) identified in Part II.A of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with General Term and Condition A.1.c.ii above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

*(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))*

- 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 (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."  
*(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))*
- v. 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))*

## 2. Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance 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). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in General Term and Condition A.1.c.i above.

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

## 3. Risk Management Plans

If applicable, the permittee shall 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"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

- a. a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or
- b. as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management 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.
- f. Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable upon final issuance of all applicable OAC Chapter 3745-35 operating permits and/or registrations for all subject emissions units located at the facility and:
  - i. the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
  - ii. the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
  - iii. a combination of i. and ii. above.

The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

*(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(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 (i.e., postmarked) 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 emissions 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.
- 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.

*(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 or Emissions Levels**

Each IEU 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))*

**21. Permanent Shutdown of an Emissions Unit**

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the responsible official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent “modification” or “installation” as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an “emissions unit” as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

*(Authority for term: OAC rule 3745-77-01)*

**22. Title VI Provisions**

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

*(Authority for term: OAC rule 3745-77-01(H)(11))*

**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 (i) 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, (ii) the probable cause of such deviations, and (iii) 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. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. 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 (i.e., postmarked) quarterly, 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 emission limitation (or control requirement), operational restriction and/or control device parameter limitation 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 (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

- a. where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in General Term and Condition A.1.c.ii; or
- b. where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or
- c. where the company's responsible official has certified that an emissions unit has been permanently shut down.

## **Part II - Specific Facility Terms and Conditions**

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

1. There are fugitive emissions of VOC from this facility which have been identified in the permit application and which, in aggregate, would constitute a non-insignificant source. These emissions are not currently subject to any applicable requirements, but shall be included in the annual fee emission report.

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

1. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirements (as defined in OAC rule 3745-77-01(H)) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

B003 - Boiler #1 (natural gas-fired 8.2 MMBTU/hr hot water boiler);  
B014 - Heater #1 (natural gas-fired 8.0 MMBTU/hr line heater);  
B029 - Reciprocating Engine/Fire Pump (gasoline-fired 0.2 MMBTU/hr emergency fire pump);  
B030 - Boiler #2 (natural gas-fired 8.2 MMBTU/hr hot water boiler); and  
B031 - Heater #2 (natural gas-fired 6.0 MMBTU/hr line heater).

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

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** RECIP ENGINE/INTEGRAL COMPR #09912 (B004)

**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>
DELAVAL HVC-12, natural gas-fired 4-Stroke Lean-Burn (4SLB) Reciprocating Internal Combustion Engine (RICE)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(G)	Exempt, see section A.I.2.a below.
	40 CFR Part 63, Subpart ZZZZ	Exempt, see section A.I.2.b below.

##### 2. Additional Terms and Conditions

- 2.a Under OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
- 2.b Under 40 CFR 63.6590(b)(3), this emissions unit is defined as an existing spark ignition, stationary RICE. Therefore, the unit does not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ, and 40 CFR Part 63, Subpart A, including the initial notification requirements specified in 40 CFR 63.6645(d).

##### II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.  
 (Authority for term: OAC rule 3745-77-07(A)(1))

##### 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.  
 (Authority for term: OAC rule 3745-77-07(C)(1))

#### **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.

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

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

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

- 1.a Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.00008 lb/MMBTU of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(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>
DELAVAL HVC-12, natural gas-fired 4-Stroke Lean-Burn (4SLB) Reciprocating Internal Combustion Engine (RICE)	None	None

**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 #09913 (B005)  
**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>
COOPER-BESSEMER 8W-330C, natural gas-fired 2-Stroke Lean-Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(G)	Exempt, see section A.I.2.a below.
	40 CFR Part 63, Subpart ZZZZ	Exempt, see section A.I.2.b below.

##### 2. Additional Terms and Conditions

- 2.a Under OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
- 2.b Under 40 CFR 63.6590(b)(3), this emissions unit is defined as an existing spark ignition, 2SLB stationary RICE. Therefore, the unit does not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ, and 40 CFR Part 63, Subpart A, including the initial notification requirements specified in 40 CFR 63.6645(d).

##### II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.  
 (Authority for term: OAC rule 3745-77-07(A)(1))

##### 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.  
 (Authority for term: OAC rule 3745-77-07(C)(1))

#### **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.

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

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

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

- 1.a Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.0384 lb PM10/MMBTU of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-1 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(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>
COOPER-BESSEMER 8W-330C, natural gas-fired 2-Stroke Lean Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)	None	None

**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 #09914 (B010)  
**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>
COOPER-BESSEMER 10W-330C, natural gas-fired 2-Stroke Lean-Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(G)	Exempt, see section A.I.2.a below.
	40 CFR Part 63, Subpart ZZZZ	Exempt, see section A.I.2.b below.

##### 2. Additional Terms and Conditions

- Under OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
- Under 40 CFR 63.6590(b)(3), this emissions unit is defined as an existing spark ignition, 2SLB stationary RICE. Therefore, the unit does not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ, and 40 CFR Part 63, Subpart A, including the initial notification requirements specified in 40 CFR 63.6645(d).

##### II. Operational Restrictions

- The permittee shall burn only natural gas in this emissions unit.  
 (Authority for term: OAC rule 3745-77-07(A)(1))

##### 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.  
 (Authority for term: OAC rule 3745-77-07(C)(1))

#### **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.

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

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

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

- 1.a Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.0384 lb PM10/MMBTU of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-1 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(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>
COOPER-BESSEMER 10W-330C, natural gas-fired 2-Stroke Lean-Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)	None	None

**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 #09904 (B011)  
**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>
COOPER-BESSEMER GMWA-6, natural gas-fired 2-Stroke Lean-Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(G)	Exempt, see section A.I.2.a below.
	40 CFR Part 63, Subpart ZZZZ	Exempt, see section A.I.2.b below.

##### 2. Additional Terms and Conditions

- 2.a Under OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
- 2.b Under 40 CFR 63.6590(b)(3), this emissions unit is defined as an existing spark ignition, 2SLB stationary RICE. Therefore, the unit does not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ, and 40 CFR Part 63, Subpart A, including the initial notification requirements specified in 40 CFR 63.6645(d).

##### II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.  
 (Authority for term: OAC rule 3745-77-07(A)(1))

##### 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.  
 (Authority for term: OAC rule 3745-77-07(C)(1))

#### **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.

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

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

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

- 1.a Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.0384 lb PM10/MMBTU of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-1 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(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>
COOPER-BESSEMER GMWA-6, natural gas-fired 2-Stroke Lean-Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)	None	None

**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 #09905 (B012)  
**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>
COOPER-BESSEMER GMWA-6, natural gas-fired 2-Stroke Lean-Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(G)	Exempt, see section A.I.2.a below.
	40 CFR Part 63, Subpart ZZZZ	Exempt, see section A.I.2.b below.

##### 2. Additional Terms and Conditions

- 2.a Under OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
- 2.b Under 40 CFR 63.6590(b)(3), this emissions unit is defined as an existing spark ignition, 2SLB stationary RICE. Therefore, the unit does not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ, and 40 CFR Part 63, Subpart A, including the initial notification requirements specified in 40 CFR 63.6645(d).

##### II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.  
 (Authority for term: OAC rule 3745-77-07(A)(1))

##### 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.  
 (Authority for term: OAC rule 3745-77-07(C)(1))

#### **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.

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

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

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

- 1.a Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.0384 lb PM10/MMBTU of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-1 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(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>
COOPER-BESSEMER GMWA-6, natural gas-fired 2-Stroke Lean-Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)	None	None

**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 (B013)

**Activity Description:** NATURAL GAS DEHYDRATOR SYSTEM : TWO ABSORBER TOWERS & 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>
250 MMSCF/day Natural Gas Dehydrator System: Absorber Tower & Regenerator Still w/0.35 MMbtu/hr NATCO Boiler & 1.15 MMbtu/hr NAOFlare.	OAC rule 3745-21-07(J)(2)	See sections A.I.2.a, A.I.2.b and A.I.2.c below.
	OAC rule 3745-17-10(B)(1)	Particulate emissions from the boiler stack shall not exceed 0.020 lb/MMBtu actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions from the boiler stack shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-31-05(A)(3) (PTI 01-6343)	Sulfur dioxide (SO <sub>2</sub> ) emissions shall not exceed 0.086 lb/hr and 0.005 ton/yr.
		Volatile Organic Compound (VOC) emissions shall not exceed 0.86 lb/hr and 2.19 tons/yr.
		Nitrogen Oxide (NO <sub>x</sub> ) emissions shall not exceed 0.11 lb/hr and 0.49 ton/yr.
		Carbon monoxide (CO) emissions shall not exceed 0.46 lb/hr and 1.99 tons/yr.
	Particulate emissions (PM <sub>10</sub> ) shall not exceed 0.003 lb/hr and 0.013 ton/yr.	
	Compliance with this rule also includes compliance with OAC rules 3745-21-07(J)(2), 3745-17-07(A) and 3745-17-10(B)(1).	

## 2. Additional Terms and Conditions

- 2.a The flare shall be operated at all times when organic compound emissions may be vented to it.
- 2.b The process vent shall be equipped with a flare fired with natural gas that achieves 95% control of organic compound emissions.
- 2.c The flare shall be designed and operated in a manner that will ensure no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours, as determined by Method 22 referenced in 40 CFR 60.18(f).

## II. Operational Restrictions

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

## III. Monitoring and/or Record Keeping Requirements

- 1. The flare shall be monitored for the presence of a pilot flame using a thermocouple or any other equivalent device to detect the presence of a flame.
- 2. The permittee shall record the following information each month:
  - a. all periods during which there was no pilot flame; and
  - b. the operating times for the flare, monitoring equipment, and the associated emissions unit.
- 3. 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 semi-annual deviation (excursion) reports that identify all periods during which the pilot flame or flare was not functioning properly, and the emission unit was not shut down. The reports shall include the date, time, and duration of each such period.
- 2. 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.
- 3. The permittee shall report the use of any material other than glycol in this emissions unit within 30 days after the occurrence.

## V. Testing Requirements

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

- 1.a Emission Limitation:  
PE from the boiler stack shall not exceed 0.020 lb PM/MMbtu actual heat input.

Applicable Compliance Method:

The hourly emission rate may be determined using an emission factor of 0.0018 lb PM10/MMbtu (AP-42, 5th Edition, Tbl 1.4-2, 7/98) multiplied time 0.35 MMbtu/hr NATCO reboiler burner.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(9).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**V. Testing Requirements (continued)**

- 1.b** Emission Limitations:  
Visible particulate emissions from the boiler stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 1.c** Emission Limitation:  
VOC emissions shall not exceed 0.86 lb/hr and 2.19 tons/yr.

Applicable Compliance Method:

The hourly emission rate was derived using the Gas Research Institute simulation program, GLYCalc version 3, based on wet gas analyses of the gases assuming a dehydrator gas feed rate of 250 MMscf/day (125 MMscf per tower) multiplied by 0.02 representing 98% flare destruction efficiency plus the product of an emission factor of 0.014 lb/VOC/MMBtu (AP-42 Tbl 13.5-1 1/95) multiplied by 1.15 MMBtu/hr NAO flare burner rate.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 1.d** Emission Limitation:  
The flare shall be designed and operated in a manner that will ensure no visible particulate emissions (VE), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

Applicable Compliance Method:

If required, compliance may be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22 and the procedures specified in 40 CFR Part 60.18(f), pursuant to OAC rule 3745-15-04(A).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 1.e** Emission Limitations:  
CO emissions shall not exceed 0.46 lb/hr and 1.99 tons/yr.

Applicable Compliance Method:

The hourly emission rate was derived using the maximum hourly waste gas and natural gas combustion rates using an emission factor of 0.37 lb CO/MMBtu (AP-42, Tbl 13.5, 1/95) multiplied by 1.15 MMBtu/hr NAO flare plus the product of an emission factor of 0.0824 lb/MMBtu (AP-42, Tbl 1.4.1, 7/98) multiplied by 0.35 MMBtu/hr NATCO reboiler burner.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**V. Testing Requirements (continued)**

- 1.f** Emission Limitation:  
PM10 shall not exceed 0.003 lb/hr and 0.013 ton/yr.

Applicable Compliance Method:

The hourly emission rate was derived using the maximum hourly waste gas and natural gas combustion rates using an emission factor of 0.00186 lb PM/MMbtu (AP-42, Tbl 1.4-2, 1/95) multiplied by the 1.15 MMBtu/hr NAO flare plus the product of an emission factor of 0.00186 lb PM/MMbtu (AP-42, Tbl 1.4-2, 7/98) multiplied by 0.35 MMBtu/hr NATCO reboiler.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 1.g** Emission Limitation:  
The process vent shall be equipped with a flare fired with natural gas that achieves 95% control of organic compound emissions.

Applicable Compliance Method:

If the flare complies with the control requirements specified in Sections A.I.2.a, A.I.2.b, and A.I.2.c above, compliance with the 95% control efficiency requirement will be assumed.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 1.h** Emission Limitations:  
NOx emissions shall not exceed 0.11 lb/hr and 0.49 ton/yr.

Applicable Compliance Method:

The hourly emission rate was derived using the maximum hourly waste gas and natural gas combustion rate using an emission factor of 0.068 lb NOx/MMBTU (AP-42, Tbl 13.5, 1/95) multiplied by the 1.15 MMBtu/hr NATCO flare plus the product of an emission factor of 0.098 lbs/MMbtu (AP-42, Tbl 1.4-1, 7/98) multiplied by 0.35 MMBtu/hr NAO reboiler burner.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 1.i** Emission Limitations:  
SO2 emissions shall not exceed 0.086 lb/hr and 0.005 ton/yr.

Applicable Compliance Method:

The hourly emission rate was derived using the maximum hourly waste gas and natural gas combustion rate using an emission factor of 0.057 lb SO2/MMbtu (20 g S/100 scf) multiplied the 1.15 MMBtu/hr NACO flare plus the product of an emission factor of 0.057 lb/MMbtu (20 g S/100 scf) multiplied by 0.35 MMBTU/hr NATCO reboiler burner.

Compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**V. Testing Requirements (continued)**

2. Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install # 01-6343, issued on April 17, 1996: in Sections V.1.c, V.1.e, V.1.f, V.1.h and V.1.j. The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

[(Authority for term: OAC 3745-77-07(A)(3)(a)(ii)]

**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>
250 MMSCF/day Natural Gas Dehydrator System: Absorber Tower & Regenerator Still w/0.35 MMbtu/hr NATCO Boiler & 1.15 MMbtu/hr NAOFlare.		

**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 #09906 (B015)  
**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>
COOPER-BESSEMER GMWA-6, natural gas-fired 2-Stroke Lean Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(G)	Exempt, see section A.I.2.a below.
	40 CFR Part 63, Subpart ZZZZ	Exempt, see section A.I.2.b below.

##### 2. Additional Terms and Conditions

- 2.a Under OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
- 2.b Under 40 CFR 63.6590(b)(3), this emissions unit is defined as an existing spark ignition, 2SLB stationary RICE. Therefore, the unit does not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ, and 40 CFR Part 63, Subpart A, including the initial notification requirements specified in 40 CFR 63.6645(d).

##### II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.  
 (Authority for term: OAC rule 3745-77-07(A)(1))

##### 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.  
 (Authority for term: OAC rule 3745-77-07(C)(1))

#### **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.

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

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

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

- 1.a Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.0384 lb PM10/MMBTU of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-1 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(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>
COOPER-BESSEMER GMWA-6, natural gas-fired 2-Stroke Lean Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)		

**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 #09907 (B016)  
**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>
COOPER-BESSEMER GMWA-6, natural gas-fired 2-Stroke Lean-Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(G)	Exempt, see section A.I.2.a below.
	40 CFR Part 63, Subpart ZZZZ	Exempt, see section A.I.2.b below.

##### 2. Additional Terms and Conditions

- 2.a Under OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
- 2.b Under 40 CFR 63.6590(b)(3), this emissions unit is defined as an existing spark ignition, 2SLB stationary RICE. Therefore, the unit does not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ, and 40 CFR Part 63, Subpart A, including the initial notification requirements specified in 40 CFR 63.6645(d).

##### II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.  
 (Authority for term: OAC rule 3745-77-07(A)(1))

##### 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.  
 (Authority for term: OAC rule 3745-77-07(C)(1))

#### **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.

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

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

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

- 1.a Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.0384 lb PM10/MMBTU of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-1 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(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>
COOPER-BESSEMER GMWA-6, natural gas-fired 2-Stroke Lean-Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)		

**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 #09908 (B017)  
**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>
COOPER-BESSEMER GMWA-6, natural gas-fired 2-Stroke Lean Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/MMBTU of actual heat input..
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(G)	Exempt, see section A.I.2.a below.
	40 CFR Part 63, Subpart ZZZZ	Exempt, see section A.I.2.b below.

##### 2. Additional Terms and Conditions

- 2.a Under OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
- 2.b Under 40 CFR 63.6590(b)(3), this emissions unit is defined as an existing spark ignition, 2SLB stationary RICE. Therefore, the unit does not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ, and 40 CFR Part 63, Subpart A, including the initial notification requirements specified in 40 CFR 63.6645(d).

##### II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.  
 (Authority for term: OAC rule 3745-77-07(A)(1))

##### 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.  
 (Authority for term: OAC rule 3745-77-07(C)(1))

#### **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.

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

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

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

- 1.a Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.0384 lb PM10/MMBTU of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-1 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(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>
COOPER-BESSEMER GMWA-6, natural gas-fired 2-Stroke Lean Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)		

**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 #09901 (B018)

**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>
WAUKESHA H2475G, natural gas-fired 4-Stroke Rich-Burn (4SRB) Reciprocating Internal Combustion Engine (RICE)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(G)	Exempt, see section A.I.2.a below.
	40 CFR Part 63, Subpart ZZZZ	Exempt, see section A.I.2.b below.

##### 2. Additional Terms and Conditions

- 2.a Under OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
- 2.b Exempted under 40 CFR 63.6590 (b) (2) (ii) with installation prior to December 19, 2002 and less than 500 rated BHP.

##### II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.  
 (Authority for term: OAC rule 3745-77-07(A)(1))

##### 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.  
 (Authority for term: OAC rule 3745-77-07(C)(1))

#### **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.

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

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

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

- 1.a Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.0095 lb PM10/MMBTU of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(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>
WAUKESHA H2475G, natural gas-fired 4-Stroke Rich-Burn (4SRB) Reciprocating Internal Combustion Engine (RICE)		

**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 #09902 (B019)  
**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>
WAUKESHA H2475G, natural gas-fired 4-Stroke Rich-Burn (4SRB) Reciprocating Internal Combustion Engine (RICE)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(G)	Exempt, see section A.I.2.a below.
	40 CFR Part 63, Subpart ZZZZ	Exempt, see section A.I.2.b below.

##### 2. Additional Terms and Conditions

- 2.a Under OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
- 2.b Exempted under 40 CFR 63.6590 (b) (2) (ii) with installation prior to December 19, 2002 and rated at less than 500 BHP.

##### II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.  
 (Authority for term: OAC rule 3745-77-07(A)(1))

##### 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.  
 (Authority for term: OAC rule 3745-77-07(C)(1))

#### **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.

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

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

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

- 1.a Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.0095 lb PM10/MMBTU of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(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>
WAUKESHA H2475G, natural gas-fired 4-Stroke Rich-Burn (4SRB) Reciprocating Internal Combustion Engine (RICE)		

**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 #09903 (B020)  
**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>
WAUKESHA H2475G, natural gas-fired 4-Stroke Rich-Burn (4SRB) Reciprocating Internal Combustion Engine (RICE)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(G)	Exempt, see section A.I.2.a below.
	40 CFR Part 63, Subpart ZZZZ	Exempt, see section A.I.2.b below.

##### 2. Additional Terms and Conditions

- Under OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
- Exempted under 40 CFR 63.6590 (b) (2) (ii) with installation prior to December 19, 2002 and rated at less than 500 BHP.

##### II. Operational Restrictions

- The permittee shall burn only natural gas in this emissions unit.  
 (Authority for term: OAC rule 3745-77-07(A)(1))

##### 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.  
 (Authority for term: OAC rule 3745-77-07(C)(1))

#### **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.

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

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

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

- 1.a Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.0095 lb PM10/MMBTU of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(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>
WAUKESHA H2475G, natural gas-fired 4-Stroke Rich-Burn (4SRB) Reciprocating Internal Combustion Engine (RICE)		

**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 #09911 (B021)  
**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>
Worthington ML-10, natural gas-fired 2-Stroke Lean-Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(G)	Exempt, see section A.I.2.a below.
	40 CFR Part 63, Subpart ZZZZ	Exempt, see section A.I.2.b below.

##### 2. Additional Terms and Conditions

- 2.a Under OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
- 2.b Under 40 CFR 63.6590(b)(3), this emissions unit is defined as an existing spark ignition, 2SLB stationary RICE. Therefore, the unit does not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ, and 40 CFR Part 63, Subpart A, including the initial notification requirements specified in 40 CFR 63.6645(d).

##### II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.  
 (Authority for term: OAC rule 3745-77-07(A)(1))

##### 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.  
 (Authority for term: OAC rule 3745-77-07(C)(1))

#### **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.

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

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

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

- 1.a Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.0384 lb PM10/MMBTU of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-1 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(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>
Worthington ML-10, natural gas-fired 2-Stroke Lean-Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)		

**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 #09909 (B022)  
**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>
WORTHINGTON ML-10, natural gas-fired 2-Stroke Lean-Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(G)	Exempt, see section A.I.2.a below.
	40 CFR Part 63, Subpart ZZZZ	Exempt, see section A.I.2.b below.

##### 2. Additional Terms and Conditions

- 2.a 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 SIP for particulate matter.
- 2.b Under OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
- 2.c Under 40 CFR 63.6590(b)(3), this emissions unit is defined as an existing spark ignition, 2SLB stationary RICE. Therefore, the unit does not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ, and 40 CFR Part 63, Subpart A, including the initial notification requirements specified in 40 CFR 63.6645(d).
- 2.d 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.

##### II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.  
 (Authority for term: OAC rule 3745-77-07(A)(1))

##### 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.  
 (Authority for term: OAC rule 3745-77-07(C)(1))

#### **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.

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

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

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

- 1.a Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.0384 lb PM10/MMBTU of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-1 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(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>
WORTHINGTON ML-10, natural gas-fired 2-Stroke Lean-Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)		

**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 #09910 (B023)

**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>
WORTHINGTON ML-10, natural gas-fired 2-Stroke Lean-Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.35 lb/MMBTU of actual heat input.
		See section A.I.2.a below.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(G)	Exempt, see section A.I.2.b below.
	40 CFR Part 63, Subpart ZZZZ	Exempt, see section A.I.2.c below.
	OAC rule 3745-17-11(B)(5)(b)	PE shall not exceed 0.062 lb/MMBTU of actual heat input.
		See section A.I.2.d below.

##### 2. Additional Terms and Conditions

- 2.a 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 SIP for particulate matter.
- 2.b Under OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
- 2.c Under 40 CFR 63.6590(b)(3), this emissions unit is defined as an existing spark ignition, 2SLB stationary RICE. Therefore, the unit does not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ, and 40 CFR Part 63, Subpart A, including the initial notification requirements specified in 40 CFR 63.6645(d).
- 2.d 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.

##### II. Operational Restrictions

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

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

### 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.

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

### 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.

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

### V. Testing Requirements

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

- 1.a Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.0384 lb PM10/MMBTU of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-1 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(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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WORTHINGTON ML-10, natural gas-fired 2-Stroke Lean-Burn (2SLB) Reciprocating Internal Combustion Engine (RICE)

**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 #099G1 (B024)

**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

- 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>
WAUKESHA F2895 GL, natural gas-fired reciprocating engine (backup generator)	OAC rule 3745-17-11(B)(5)(a)	Particulate emissions (PE) shall not exceed 0.310 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emission limitations shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-31-05(A)(3) PTI 01-4643	Nitrogen oxide (NOx) emissions shall not exceed 2.2 lbs/hr and 0.6 ton/yr.  Carbon monoxide (CO) emissions shall not exceed 3.9 lbs/hr and 1.0 ton/yr.  Volatile organic compound (VOC) emissions shall not exceed 1.5 lbs/hr and 0.4 ton/yr.  Compliance with this rule also includes compliance with OAC rules 3745-17-07(A) and 3745-17-11(B)(5)(a).

##### 2. Additional Terms and Conditions

None

##### II. Operational Restrictions

- The maximum annual operating hours for this emissions unit shall not exceed 288 hours, based upon a rolling, 12-month summation of the operating hours.

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

1. The permittee shall maintain monthly records of the following information:
  - a. the operating hours for each month, and
  - b. the rolling, 12-month summation of the operating hours.

### IV. Reporting Requirements

1. The permittee shall submit semi-annual deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation.

### V. Testing Requirements

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

- 1.a Emission Limitation:  
PE shall not exceed 0.062 lb PM/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be derived from an emission factor of 0.0095 lb PM10/MMBTU of actual heat input (AP-42, 5th Edition, Table 3.2-3, 7/00).

If required, the permittee shall demonstrate compliance through emission testing in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Methods 1-5 and OAC rule 3745-17-03(B)(10).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 1.c Emission Limitation:  
NOx emissions shall not exceed 2.2 lbs/hr and 0.6 ton/yr.

Applicable Compliance Method:

Compliance was derived using emission factor of 1.5 g NOx/hp-hr (Waukesha, PB #318 10/1/91) multiplied by 674 hp and multiplied by 1 lb/454 grams equal 2.2 lbs/hr.

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

Compliance with the annual emission limitation shall be determined by recordkeeping requirement in section A.III above.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**V. Testing Requirements (continued)**

**1.d** Emission Limitation:  
CO emissions shall not exceed 3.9 lbs/hr and 1.0 ton/yr.

Applicable Compliance Method:

Compliance was derived using emission factor of 2.65 g CO/hp-hr (Waukesha, PB #318 10/1/91) multiplied by 674 hp and multiplied by 1 lb/454 grams equal 3.9 lbs/hr.

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

Compliance with the annual emission limitation shall be determined by recordkeeping requirement in section A.III above.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**1.e** Emission Limitation:  
VOC emission shall not exceed 1.5 lbs/hr and 0.4 ton/yr.

Applicable Compliance Method:

Compliance was derived using emission factor of 1.0 g VOC/hp-hr (Waukesha, PB #318 10/1/91) multiplied by 674 hp and multiplied by 1 lb/454 grams equal 1.5 lbs/hr.

If required, the permittee shall demonstrate compliance through emission testing in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Methods 1-4 and 25A.

Compliance with the annual emission limitation shall be determined by recordkeeping requirement in section A.III above.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(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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WAUKESHA F2895 GL, natural gas-fired reciprocating engine (backup generator)

**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 #099G3 (B025)

**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

- 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>
WAUKESHA F817G, natural gas-fired reciprocating engine (backup generator)	OAC rule 3745-17-11(B)(5)(a)	Particulate emissions (PE) shall not exceed 0.310 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emission limitations shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-31-05(A)(3) PTI 01-5741	Nitrogen oxide (NOx) emissions shall not exceed 2.75 lbs/hr and 10.97 tons/yr.
		Carbon monoxide (CO) emissions shall not exceed 4.64 lbs/hr and 18.5 ton/yr.
		Volatile organic compound (VOC) emissions shall not exceed 0.037 lb/hr and 0.15 ton/yr.
		Compliance with this rule also includes compliance with OAC rules 3745-17-07(A) and 3745-17-11(B)(5)(a).

##### 2. Additional Terms and Conditions

None

##### II. Operational Restrictions

None

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

None

#### IV. Reporting Requirements

None

#### V. Testing Requirements

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

**1.a** Emission Limitation:  
PE shall not exceed 0.310 lb PM/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance with the hourly emission limitation may be derived from an emission factor of 0.0095 lb PM/MMBTU of actual heat input (AP-42, table 3.2-3, 7/00).

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

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**1.c** Emission Limitation:  
NOx emissions shall not exceed 2.75 lbs/hr and 10.97 tons/yr.

Applicable Compliance Method:

Compliance with the hourly emission limitation may be derived from an emission factor of 0.0234 lb NOx/bhp-hr (AP-42, table 3.2-3, 7/00) multiplied times 118 brake horsepower.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8,760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**1.d** Emission Limitation:  
CO emissions shall not exceed 4.64 lbs/hr and 18.5 tons/yr.

Applicable Compliance Method:

Compliance with the hourly emission limitation may be derived from an emission factor of 0.0394 lb CO/bhp-hr (AP-42, table 3.2-3, 7/00) multiplied times 118 brake horsepower.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8,760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

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

- 1.e** Emission Limitation:  
VOC emission shall not exceed 0.037 lb/hr and 0.15 ton/yr.

Applicable Compliance Method:

Compliance with the hourly emission limitation may be derived from an emission factor of 0.000314 lb VOC/bhp-hr (AP-42, table 3.2-3, 7/00) multiplied times 118 brake horsepower.

The annual limitation was established by multiplying the hourly emission limitation by the annual operating hours (8,760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 2.** Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install # 01-5741, issued on May 24, 1995: in Sections V.1.d, V.1.e, and V.1.f. The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

[(Authority for term: OAC 3745-77-07(A)(3)(a)(ii)]

## **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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WAUKESHA F 817G, natural gas-fired small bore reciprocating engine (backup generator)

**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 #2 (B026)

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

#### 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>
125 MMSCF/day Natural Gas Dehydrator System: Absorber Tower & Regenerator Still w/1 MMbtu/hr NAO Boiler & 1.33 MMbtu/hr NAO Flare.	OAC rule 3745-21-07(J)(2)	See sections A.I.2.a, A.I.2.b and A.I.2.c, below.
	OAC rule 3745-17-10(B)(1)	Particulate emissions from the boiler stack shall not exceed 0.020 lb/mmBtu actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions from the boiler stack, shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-31-05(A)(3) (PTI 01-6343)	Sulfur dioxide (SO <sub>2</sub> ) emissions shall not exceed 0.13 lb/hr and 0.007 ton/yr.
		Volatile Organic Compound (VOC) emissions shall not exceed 0.76 lb/hr and 1.96 tons/yr.
		Nitrogen Oxide (NO <sub>x</sub> ) emissions shall not exceed 0.19 lb/hr and 0.83 ton/yr.
		Carbon monoxide (CO) emissions shall not exceed 0.57 lb/hr and 2.51 tons/yr.
		Particulate emissions (PM <sub>10</sub> ) shall not exceed 0.004 lb/hr and 0.02 ton/yr.
	Compliance with this rule also includes compliance with OAC rules 3745-21-07(J)(2), 3745-17-07(A) and 3745-17-10(B)(1).	

## **2. Additional Terms and Conditions**

- 2.a** The flare shall be operated at all times when organic compound emissions may be vented to it.
- 2.b** The process vent shall be equipped with a flare fired with natural gas that achieves 95% control of organic compound emissions.
- 2.c** The flare shall be designed and operated in a manner that will ensure no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours, as determined by Method 22 referenced in 40 CFR 60.18(f).

## **II. Operational Restrictions**

- 1.** The permittee shall burn only natural gas in this emissions unit.

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

- 1.** The flare shall be monitored for the presence of a pilot flame using a thermocouple or any other equivalent device to detect the presence of a flame.
- 2.** The permittee shall record the following information each month:
  - a. all periods during which there was no pilot flame; and
  - b. the operating times for the flare, monitoring equipment, and the associated emissions unit.
- 3.** 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 semi-annual deviation (excursion) reports that identify all periods during which the pilot flame or flare was not functioning properly, and the emission unit was not shut down. The reports shall include the date, time, and duration of each such period.
- 2.** 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.
- 3.** The permittee shall report the use of any material other than glycol in this emissions unit within 30 days after the occurrence.

## **V. Testing Requirements**

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

- 1.a** Emission Limitation:  
PE from the boiler stack shall not exceed 0.020 lb PM/MMBTU actual heat input.

Applicable Compliance Method:

The hourly emission rate may be determined using an emission factor of 1.9 lbs PM/MMcf (AP-42, 5th Edition, Tbl 1.4-2, 7/98) multiplied time 1.0 MMBTU/hr boiler burner divided by 1000 BTU/scf.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(9).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**V. Testing Requirements (continued)**

- 1.b** Emission Limitations:  
Visible particulate emissions from the boiler stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 1.c** Emission Limitation:  
VOC emissions shall not exceed 0.76 lb/hr and 1.96 tons/yr

Applicable Compliance Method:

The hourly emission rate was derived using the Gas Research Institute simulation program, GLYCalc version 3, based on wet gas analyses of the gases assuming a dehydrator gas feed rate of 125 MMscf/day multiplied by 0.02 representing 98% flare destruction efficiency plus the product of an emission factor of 0.014 lb/VOC/MMBtu (AP-42 Tbl 13.5-1 1/95) multiplied by 1.33 MMBtu/hr NAO flare burner rate.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 1.d** Emission Limitation:  
The flare shall be designed and operated in a manner that will ensure no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22 and the procedures specified in 40 CFR Part 60.18(f). No visible emission observations are specifically required to demonstrate compliance with these emission limitations but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

- 1.e** Emission Limitations:  
CO emissions shall not exceed 0.57 lb/hr and 2.51 tons/yr.

Applicable Compliance Method:

The hourly emission rate was derived using the maximum hourly waste gas and natural gas combustion rates using an emission factor of 0.37 lb CO/MMBtu (AP-42, Tbl 13.5, 1/95) multiplied by 1.33 MMBtu/hr NAO flare plus the product of an emission factor of 0.0824 lb/MMBtu (AP-42, Tbl 1.4.1, 7/98) multiplied by 1 MMBtu/hr NAO reboiler burner.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**V. Testing Requirements (continued)**

- 1.f** Emission Limitation:  
PM10 shall not exceed 0.004 lb/hr and 0.02 ton/yr.

Applicable Compliance Method:

The hourly emission rate was derived using the maximum hourly waste gas and natural gas combustion rates using an emission factor of 0.00186 lb PM/MMbtu (AP-42, Tbl 1.4-2, 7/98) multiplied by the 1.33 MMbtu/hr NAO flare plus the product of an emission factor of 0.00186 lb PM/MMbtu (AP-42, Tbl 1.4-2, 7/98) multiplied by 1 MMbtu/hr NAO reboiler.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 1.g** Emission Limitation:  
The process vent shall be equipped with a flare fired with natural gas that achieves 95% control of organic compound emissions.

Applicable Compliance Method:

If the flare complies with the control requirements specified in Sections A.I.2.c, A.I.2.e, and A.I.2.f above, compliance with the 95% control efficiency requirement will be assumed.

- 1.h** Emission Limitations:  
NOx emissions shall not exceed 0.19 lb/hr and 0.83 tons/yr.

Applicable Compliance Method:

The hourly emission rate was derived using the maximum hourly waste gas and natural gas combustion rate using an emission factor of 0.068 lb NOx/MMBTU (AP-42, Tbl 13.5, 1/95) multiplied by the 1.33 MMbtu/hr NAO flare plus the product of an emission factor of 0.098 lbs/MMbtu (AP-42, Tbl 1.4-1, 7/98) multiplied by 1.0 MMbtu/hr NAO reboiler burner.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 1.i** Emission Limitations:  
SO2 emissions shall not exceed 0.13 lb/hr and 0.007 ton/yr.

Applicable Compliance Method:

The hourly emission rate was derived using the maximum hourly waste gas and natural gas combustion rate using an emission factor of 0.057 lb S02/MMbtu (20 gr S/100scf) multiplied the 1.33 MMbtu/hr NAO flare plus the product of an emission factor of 0.057 lb/MMbtu (20 g S/100 scf) multiplied by 1 MMBTU/hr NAO reboiler burner.

Compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 2.** Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install # 01-6343, issued on April 17, 1996: in Sections V.1.c, V.1.e, V.1.f, V.1.h and V.1.j. The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

[(Authority for term: OAC 3745-77-07(A)(3)(a)(ii)]

Facility Name: **CRAWFORD COMPRESSOR STATION**

Facility ID: **01-23-00-0137**

Emissions Unit: **TEG DEHY #2 (B026)**

## **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>
125 MMSCF/day Natural Gas Dehydrator System: Absorber Tower & Regenerator Still w/1 MMbtu/hr NAO Boiler & 1.33 MMbtu/hr NAO Flare.		

**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/AIR COMPR. #099A1 (B027)

**Activity Description:** AIR COMPRESSOR : A NATURAL GAS-FIRED RECIPROCATING ENGINE COMPRESSING AMBIENT AIR.

#### 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>
WAUKESHA F817G, natural gas-fired reciprocating engine (backup generator)	OAC rule 3745-17-11(B)(5)(a)	Particulate emissions (PE) shall not exceed 0.310 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emission limitations shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-31-05(A)(3) PTI 01-6402	Nitrogen oxide (NOx) emissions shall not exceed 2.75 lbs/hr and 10.97 tons/yr.
		Carbon monoxide (CO) emissions shall not exceed 4.64 lbs/hr and 18.47 tons/yr.
		Volatile organic compound (VOC) emissions shall not exceed 0.04 lb/hr and 0.15 ton/yr.
		Particulate emissions (PM10) emissions shall not exceed 0.01 lb/hr and 0.05 ton/yr.
		Compliance with this rule also includes compliance with OAC rules 3745-17-11(B)(5)(a) and 3745-17-07(A).

##### 2. Additional Terms and Conditions

- 2.a The hourly and annual emission limitations for this emissions unit were established to reflect the maximum potential to emit. Therefore, it is not necessary to develop additional monitoring, record keeping and/or reporting requirements to ensure compliance with this limit.

## II. Operational Restrictions

None

## III. Monitoring and/or Record Keeping Requirements

1. Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 01-06402, issued on December 29, 1993: in Section III.1.c. The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

[OAC 3745-77-07(A)(3)(a)(ii)]

## IV. Reporting Requirements

1. Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install # 01-06402, issued on December 29, 1993: in Section IV.1. The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

[OAC 3745-77-07(A)(3)(a)(ii)]

## V. Testing Requirements

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

- 1.a Emission Limitation:  
Particulate emissions shall not exceed 0.310 lb PM/MMbtu of actual heat input.

Applicable Compliance Method:

Compliance may be determined based upon an emission factor of 0.0001 lb PM10/bhp-hr multiplied by the horsepower rating 118. This emission factor was derived from the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3 (7/00).

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

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**V. Testing Requirements (continued)**

**1.c** Emission Limitation:  
NOx emissions shall not exceed 2.75 lbs/hr and 10.97 tons/yr.

Applicable Compliance Method:

Compliance with the hourly emission limitation may be derived from an emission factor of 0.0234 lb NOx/bhp-hr (AP-42, table 3.2-3, 7/00) multiplied times 118 brake horsepower.

The annual limitation was derived from an emission factor of 0.0234 lb NOx/bhp-hr (AP-42, table 3.2-3, 7/00) multiplied times 107 brake horsepower by the maximum possible annual operating hours (8,760 hrs/yr) and dividing by 2000 lbs/ton.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**1.d** Emission Limitation:  
CO emissions shall not exceed 4.64 lbs/hr and 18.5 tons/yr.

Applicable Compliance Method:

Compliance with the hourly emission limitation may be derived from an emission factor of 0.0394 lb CO/bhp-hr (AP-42, table 3.2-3, 7/00) multiplied times 118 brake horsepower.

The annual limitation was derived from an emission factor of 0.0394 lb CO/bhp-hr (AP-42, table 3.2-3, 7/00) multiplied times 107 brake horsepower by the maximum possible annual operating hours (8,760 hrs/yr) and dividing by 2000 lbs/ton.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**1.e** Emission Limitation:  
VOC emissions shall not exceed 0.04 lb/hr and 0.15 ton/yr.

Applicable Compliance Method:

Compliance with the hourly emission limitation may be derived from an emission factor of 0.000314 lb VOC/bhp-hr (AP-42, table 3.2-3, 7/00) multiplied by 118 brake horsepower.

The annual limitation was derived from an emission factor of 0.000314 lb VOC/bhp-hr (AP-42, table 3.2-3, 7/00) multiplied times 107 brake horsepower by the annual operating hours (8,760 hrs/yr) and dividing by 2000 lbs/ton.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**1.f** Emission Limitation:  
PM10 emissions shall not exceed 0.01 lb/hr and 0.05 ton/yr.

Applicable Compliance Method:

Compliance may be determined based upon an emission factor of 0.0001 lb PM10/bhp-hr multiplied by the horsepower rating 118. This emission factor was derived from the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3 (7/00).

The annual limitation was derived from an emission factor of 0.0001 lb PM10/bhp-hr (AP-42, table 3.2-3, 7/00) multiplied times 107 brake horsepower by the maximum possible annual operating hours (8,760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**V. Testing Requirements (continued)**

2. Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install # 01-6402, issued on December 29, 1993: in Sections V.1.c, V.1.d, V.1.e and V.1.f. The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

[(Authority for term: OAC 3745-77-07(A)(3)(a)(ii)]

**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>
WAUKESHA F817G, natural gas-fired reciprocating engine (backup generator)		

**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 #3 (B032)

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

#### 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>
13 MMSCF/day Natural Gas Dehydrator System: Absorber Tower & Regenerator Still w/ 0.5 MMbtu/hr NAO Boiler & 0.623 MMbtu/hr NAO Flare.	OAC rule 3745-21-07(J)(2)	See sections A.1.2.a, A.1.2.b and A.1.2.c, below.
	OAC rule 3745-17-10(B)(1)	Particulate emissions from the boiler stack shall not exceed 0.020 lb/mmBtu actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions from the boiler stack, shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-31-05(A)(3) (PTI 01-06835)	Sulfur dioxide (SO <sub>2</sub> ) emissions shall not exceed 0.065 lb/hr and 0.004 ton/yr.
		Volatile Organic Compound (VOC) emissions shall not exceed 0.09 lb/hr and 0.39 ton/yr.
		Nitrogen Oxide (NO <sub>x</sub> ) emissions shall not exceed 0.09 lb/hr and 0.4 ton/yr.
		Carbon monoxide (CO) emissions shall not exceed 0.27 lb/hr and 1.19 tons/yr.
	Particulate emissions (PM <sub>10</sub> ) shall not exceed 0.002 lb/hr and 0.014 ton/yr.	
	Compliance with this rule also includes compliance with OAC rules 3745-21-07(J)(2), 3745-17-07(A) and 3745-17-10(B)(1).	

## 2. Additional Terms and Conditions

- 2.a The flare shall be operated at all times when volatile organic compound emissions may be vented to it.
- 2.b The process vent shall be equipped with a flare fired with natural gas that achieves 95% control of organic compound emissions.
- 2.c The flare shall be designed and operated in a manner that will ensure no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours, as determined by Method 22 referenced in 40 CFR 60.18(f).

## II. Operational Restrictions

- 1. The permittee shall be used only when the net heating value of the natural gas being combusted is 200 BTU/scf or greater. The net heating value of the gas being combusted shall be determined by the methods specified in 40 CFR 60.18(f).
- 2. The flare shall be designed for and operated with an exit velocity that satisfies the requirements of 40 CFR 60.18(f).

## III. Monitoring and/or Record Keeping Requirements

- 1. The flare shall be monitored for the presence of a pilot flame using a thermocouple or any other equivalent device to detect the presence of a flame.
- 2. The permittee shall record the following information each month:
  - a. all periods during which there was no pilot flame; and
  - b. the operating times for the flare, monitoring equipment, and the associated emissions unit.
- 3. The permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit, for each day during which the permittee burns a fuel other than natural gas, .

## IV. Reporting Requirements

- 1. The permittee shall submit semi-annual deviation (excursion) reports that identify all periods during which the pilot flame or flare was not functioning properly, and the emission unit was not shut down. The reports shall include the date, time, and duration of each such period.
- 2. 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.
- 3. The permittee shall report the use of any material other than glycol in this emissions unit within 30 days after the occurrence.

## V. Testing Requirements

- 1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
  - 1.a Emission Limitation:  
PE from the boiler stack shall not exceed 0.020 lb PM/MMbtu actual heat input.

### Applicable Compliance Method:

The hourly emission rate may be determined using an emission factor of 0.0018 lb PM10/MMbtu (AP-42, 5th Edition, Tbl 1.4-2, 7/98) multiplied time 0.5 MMbtu/hr NAO reboiler burner.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(9).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**V. Testing Requirements (continued)**

**1.b Emission Limitations:**

Visible particulate emissions from the boiler stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

**Applicable Compliance Method:**

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**1.c Emission Limitation:**

VOC emissions shall not exceed 0.09 lb/hr and 0.39 ton/yr.

**Applicable Compliance Method:**

The hourly emission rate was derived using the Gas Research Institute simulation program, GLYCalc version 3, based on wet gas analyses of the gases assuming a dehydrator gas feed rate of 13 MMscf/day multiplied by 0.02 representing 98% flare destruction efficiency plus the product of an emission factor of 0.014 lb/VOC/MMBtu (AP-42 Tbl 13.5-1 1/95) multiplied by 0.623 MMBtu/hr NAO flare burner rate.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**1.d Emission Limitation:**

The flare shall be designed and operated in a manner that will ensure no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

**Applicable Compliance Method:**

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22 and the procedures specified in 40 CFR Part 60.18(f). No visible emission observations are specifically required to demonstrate compliance with these emission limitations but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

**1.e Emission Limitations:**

CO emissions shall not exceed 0.27 lb/hr and 1.19 tons/yr.

**Applicable Compliance Method:**

The hourly emission rate was derived using the maximum hourly waste gas and natural gas combustion rates using an emission factor of 0.37 lb CO/MMBtu (AP-42, Tbl 13.5, 1/95) multiplied by 0.623 MMBtu/hr NAO flare plus the product of an emission factor of 0.0824 lb/MMBtu (AP-42, Section 1.4.1, 7/98) multiplied by 0.5 MMBtu/hr NAO reboiler burner.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**V. Testing Requirements (continued)**

- 1.f** Emission Limitation:  
PM10 shall not exceed 0.002 lb/hr and 0.014 ton/yr.

Applicable Compliance Method:

The hourly emission rate was derived using the maximum hourly waste gas and natural gas combustion rates using an emission factor of 0.00186 lb PM/MMbtu (AP-42, Tbl 1.4-2, 7/98) multiplied by the 0.623 MMbtu/hr NAO flare plus the product of an emission factor of 0.00186 lb PM/MMbtu (AP-42, Tbl 1.4-2, 7/98) multiplied by 0.5 MMbtu/hr NAO reboiler.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 1.g** Emission Limitation:  
The process vent shall be equipped with a flare fired with natural gas that achieves 95% control of organic compound emissions.

Applicable Compliance Method:

If the flare complies with the control requirements specified in Sections A.I.2.c, A.I.2.e, and A.I.2.f above, compliance with the 95% control efficiency requirement will be assumed.

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

- 1.h** Emission Limitations:  
NOx emissions shall not exceed 0.09 lb/hr and 0.4 ton/yr.

Applicable Compliance Method:

The hourly emission rate was derived using the maximum hourly waste gas and natural gas combustion rate using an emission factor of 0.068 lb NOx/MMBTU (AP-42, Tbl 13.5, 1/95) multiplied by the 0.623 MMbtu/hr NAO flare plus the product of an emission factor of 0.098 lbs/MMbtu (AP-42, Tbl 1.4-1, 7/98) multiplied by 0.5 MMbtu/hr NAO reboiler burner.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 1.i** Emission Limitations:  
SO2 emissions shall not exceed 0.065 lb/hr and 0.004 ton/yr.

Applicable Compliance Method:

The hourly emission rate was derived using the maximum hourly waste gas and natural gas combustion rate using an emission factor of 0.057 lb SO2/MMbtu (20 gr S/100scf) multiplied the 0.623 MMbtu/hr NAO flare plus the product of an emission factor of 0.057 lb/MMbtu (20 g S/100 scf) multiplied by 0.5 MMBTU/hr NAO reboiler burner.

Compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

**V. Testing Requirements (continued)**

2. Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install # 01-06835, issued on September 10, 1997: in Sections V.1.c, V.1.e, V.1.f, V.1.h and V.1.j. The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

[(Authority for term: OAC 3745-77-07(A)(3)(a)(ii)]

**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>
13 MMSCF/day Natural Gas Dehydrator System: Absorber Tower & Regenerator Still w/ 0.5 MMbtu/hr NAO Boiler & 0.623 MMbtu/hr NAO Flare.		

**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:** GLYCOL RECLAIMER #2 (P002)  
**Activity Description:** GLYCOL RECLAIMER UNIT No. 2

**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>
Glycol reclaimer unit w/0.19 MMBtu/hr boiler/preheater and a 0.20 MMBtu/hr vacuum reboiler.	OAC rule 3745-31-05(A)(3) (PTI 01-08232)	Carbon monoxide (CO) emissions shall not exceed 0.032 pound per hour and 0.14 ton per year.
		Nitrogen oxides (NOx) emissions shall not exceed 0.038 pound per hour and 0.17 ton per year.
		Sulfur dioxide (SO2) emissions shall not exceed 0.0003 pound per hour and 0.001 ton per year.
		Particulate emissions (PM10) shall not exceed 0.0007 pound per hour and 0.003 ton per year.
		Volatile organic compound (VOC) emissions shall not exceed 6.26 pounds per hour and 3.51 tons per year.
		Compliance with this rule also includes compliance with OAC rule 3745-17-07(A)(1).
	OAC rule 3745-21-07(G)	None, see section A.I.2.a below.
	OAC rule 3745-17-10(B)(1)	Particulate emissions from the boiler stack shall not exceed 0.020 lb/mmBtu actual heat input.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

## **2. Additional Terms and Conditions**

- 2.a** To avoid the emission limitations/control requirements contained in OAC rule 3745-21-07(G)(2), no photochemically reactive materials (i.e., as raw materials) shall be employed in this emissions unit.

Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).

- 2.b** The hourly and annual CO, NO<sub>x</sub>, SO<sub>2</sub>, and PE limitations for this emissions unit were established to reflect the maximum potential to emit. Therefore, it is not necessary to develop additional monitoring, record keeping and/or reporting requirements to ensure compliance with this limit.

## **II. Operational Restrictions**

1. Maximum annual process rate shall not exceed 126,500 gal of triethylene glycol and 28,750 gal of diethylene glycol.
2. The maximum glycol processing rate will not exceed 90 gallons per hour.

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

1. For each batch of material processed by emissions unit P002, the permittee shall perform a wet analysis of each batch of material processed for benzene, toluene, ethylbenzene, and xylene (BTEX).
2. The permittee shall maintain the following daily records for material processed by emissions unit P003:
  - a. Unique identification number for each batch.
  - b. Results of BTEX analysis for each batch.
  - c. Number of gallons of glycol processed.
  - d. Number of hours of operation.

## **IV. Reporting Requirements**

1. The permittee shall submit deviation reports which identify the days during which photochemically reactive materials were employed in this emissions unit. Each report shall identify the cause for the use of the photochemically reactive material(s), and the estimated total quantity of material(s) emitted during each such day, in pounds. Each report shall be submitted to the Central District Office within 30 days of the deviation.
2. The permittee shall submit deviation (excursion) reports which identify each day during which any of the allowable hourly OC emission rate was exceeded and the actual hourly emissions for each such day. Each report shall be submitted to the Central District Office within 30 days of the deviation.
3. The permittee shall submit annual reports that identify any exceedances of the annual process rate limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

## **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:  
CO emissions shall not exceed 0.032 pound per hour and 0.14 ton per year.

Applicable Compliance Method:

Compliance with the allowable mass emission rate for carbon monoxide from the boiler/preheater shall be derived from an emission factor of 0.08235 lb CO/MMbtu (AP-42 Table 1.4-1 7/98) multiplied by 0.395 MMbtu/hr (boiler rating). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

- 1.b** Emission Limitations:  
NOx emissions shall not exceed 0.038 pounds per hour and 0.17 ton per year.

Applicable Compliance Method:

Compliance with the allowable emission rate for nitrogen oxides shall be derived from the actual heat input of the boiler/preheater with an emission factor of 0.09804 lb NOx/MMbtu (AP-42 Table 1.4-1 7/98) multiplied times 0.395 MMbtu/hr. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7E.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

- 1.c** Emission Limitations  
SO2 emissions shall not exceed 0.0003 pound per hour and 0.001 ton/year.

Applicable Compliance Method:

Compliance with the allowable emission rate for sulfur dioxide shall be derived from the actual heat input of the boiler/preheater with an emission factor of 0.00071 lb SO2/MMbtu (0.25 g S/100 scf) multiplied times 0.395 MMbtu/hr. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6C.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

- 1.d** Emission Limitations:  
PE (PM10) shall not exceed 0.0007 pound per hour and 0.003 ton per year.

Applicable Compliance Method:

Compliance with the allowable emission rate for particulate emissions shall be derived from the actual heat input of the boiler with an emission factor of 0.00186 lb PM10/MMbtu (AP-42 Tbl 1.4-2 7/98) multiplied times 0.395 MMbtu/hr. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

## V. Testing Requirements (continued)

- 1.e** Emission Limitations:  
VOC emissions shall not exceed 6.26 pounds per hour and 3.51 tons per year.

Applicable Compliance Method:

Compliance with the allowable hourly emissions limitation will be demonstrated provided the total BTEX concentrations of each batch of glycol processed does not exceed 5,510 ppm. The following formula may be used to derive the hourly OC emissions from processing TEG/DEG:

$(1/1,000,000) \times \text{BTEX concentration(ppm)} \times 1.68(\text{OC/BTEX ratio}) \times 9.3 \text{ lbs/gal}(\text{glycol density}) \times \text{gal/hr processed} = \text{lbs OC/hr}$

The annual TEG emissions was derived assuming the BTEX concentration of each batch of glycol does not exceed 2,535 ppm for TEG and 5,510 ppm for DEG and the annual process rate for each emissions unit does not exceed 126,500 gallons of TEG and 28,750 gallons of DEG.

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

- 1.f** Emission Limitation:  
Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

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

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

- 1.g** Emission Limitation:  
Particulate emissions from the boiler stack shall not exceed 0.020 lb/mmBtu actual heat input.

Applicable Compliance Method:

Compliance with the allowable mass emission rate for PM shall be determined by multiplying an emission factor of 0.007451 lb of PM10 per MMBTU of actual heat input by the boiler/preheater maximum hourly MMBTU rating (0.175 MMBTU/hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2(7/98). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

- 2.** Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install # 01-08232, issued on September 19, 2000: in Sections V.1.a, V.1.b, V.1.c, V.1.d and V.1.e. The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

[(Authority for term: OAC 3745-77-07(A)(3)(a)(ii)]

## 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>
Glycol reclaimer unit w/0.19 MMBtu/hr boiler/preheater and a 0.20 MMBtu/hr vacuum reboiler.		

**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

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

1. The permit to install for this emissions unit (P002) was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee 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 TSCREEN. The predicted 1-hour maximum ground-level concentration from the use of the TSCREEN model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Xylene  
 TLV (mg/m3): 434  
 Maximum Hourly Emission Rate (lbs/hr): 1.43  
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 172.7  
 MAGLC (ug/m3):10,333

Pollutant: toluene  
 TLV (mg/m3): 188  
 Maximum Hourly Emission Rate (lbs/hr):1.83  
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 220.7  
 MAGLC (ug/m3):4476

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

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:

- 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;
- 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
- 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.

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":

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- 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:** GLYCOL RECLAIMER #3 (P003)  
**Activity Description:** PORTABLE GLYCOL RECLAIMER UNIT

#### 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>
Glycol reclaimer unit w/0.175 MMBtu/hr boiler/preheater, a 0.175 MMBtu/hr vacuum reboiler, and a 55 Hp gas-fired electrical generator.	OAC rule 3745-31-05(A)(3) (PTO 01-08634)	Carbon monoxide (CO) emissions shall not exceed 0.94 pound per hour and 4.12 ton per year.
		Nitrogen oxides (NOx) emissions shall not exceed 1.58 pounds per hour and 6.93 ton per year.
		Sulfur dioxide (SO2) emissions shall not exceed 0.05 pound per hour and 0.002 ton per year.
		Particulate emissions (PM10) shall not exceed 0.005 pound per hour and 0.023 ton per year.
		Volatile organic compound (VOC) emissions shall not exceed 7.74 pounds per hour and 6.4 tons per year.
		Compliance with this rule also includes compliance with OAC rules 3745-17-07(A)(1) and 3745-17-10(B)(1).
	OAC rule 3745-21-07(G)	None, see section A.I.2.a below.
	OAC rule 3745-17-10(B)(1)	Particulate emissions from the boiler stack shall not exceed 0.020 lb/mmBtu actual heat input.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

## **2. Additional Terms and Conditions**

- 2.a** To avoid the emission limitations/control requirements contained in OAC rule 3745-21-07(G)(2), no photochemically reactive materials (i.e., as raw materials) shall be employed in this emissions unit.

Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).

- 2.b** The hourly and annual CO, NO<sub>x</sub>, SO<sub>2</sub>, and PE limitations for this emissions unit were established to reflect the maximum potential to emit. Therefore, it is not necessary to develop additional monitoring, record keeping and/or reporting requirements to ensure compliance with this limit.

## **II. Operational Restrictions**

1. The maximum annual process rate for this emissions unit shall not exceed 150,000 gallons of Glycol.
2. The maximum glycol processing rate will not exceed 90 gallons per hour.
3. The permittee shall burn only natural gas in this emissions unit.

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

1. For each batch of material processed by emissions unit P003, the permittee shall perform a wet analysis of each batch of material processed for benzene, toluene, ethylbenzene, and xylene (BTEX).
2. The permittee shall maintain the following daily records for material processed by emissions unit P003:
  - a. Unique identification number for each batch.
  - b. Results of BTEX analysis for each batch.
  - c. Number of gallons of glycol processed.
  - d. Number of hours of operation.
3. 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 reports which identify the days during which photochemically reactive materials were employed in this emissions unit. Each report shall identify the cause for the use of the photochemically reactive material(s), and the estimated total quantity of material(s) emitted during each such day, in pounds. Each report shall be submitted to the Central District Office within 30 days of the deviation.
2. The permittee shall submit deviation (excursion) reports which identify each day during which any of the allowable hourly OC emission rate was exceeded and the actual hourly emissions for each such day. Each report shall be submitted to the Central District Office within 30 days of the deviation.
3. The permittee shall submit annual reports that identify any exceedances of the annual process rate limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
4. The permittee shall submit a "Notice of Intent to Relocate a Portable or Mobile Source" form 15 days prior to any planned relocation of this emissions unit, in accordance with OAC rule 3745-31-05(F)(6). (A copy of the form is attached to this permit.) Approval of the planned relocation must be obtained from the Ohio EPA, Central District Office prior to the relocation.
5. The permittee shall submit deviation (excursion) reports which identify each day during the allowable hourly process weight rate was exceeded and the actual hourly process weight rate for each such day. Each report shall be submitted to the Central District Office within 30 days of the deviation.

#### **IV. Reporting Requirements (continued)**

6. The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in the 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:  
CO emissions shall not exceed 0.94 pound per hour and 4.12 tons per year.

**Applicable Compliance Method:**

Compliance with the allowable mass emission rate for carbon monoxide shall be determined by summation of the product of 0.35 MMbtu/hr (preheater/vacuum boiler rating) multiplied times an emission factor of 0.08235 lb CO/MMbtu (AP-42 Table 1.4-1 7/98) plus the product of 55 brake horsepower multiplied times an emission factor of 0.01658 lb CO per brake horsepower hour (AP-42, Table 3.2-3 (7/00)). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

- 1.b Emission Limitations:  
NOx emissions shall not exceed 1.58 pounds per hour and 6.93 tons per year.

**Applicable Compliance Method:**

Compliance with the allowable mass emission rate for carbon monoxide shall be determined by summation of the product of 0.35 MMbtu/hr (preheater/vacuum boiler rating) multiplied times an emission factor of 0.09804 lb NOx/MMbtu (AP-42 Table 1.4-1 7/98) plus the product of 55 brake horsepower multiplied times an emission factor of 0.02813 lb NOx per brake horsepower hour (AP-42, Table 3.2-3 (7/00)). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7E.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

## V. Testing Requirements (continued)

### 1.c Emission Limitations

SO<sub>2</sub> emissions shall not exceed 0.05 pound per hour and 0.002 ton per year.

#### Applicable Compliance Method:

Compliance with the allowable mass emission rate for SO<sub>2</sub> shall be determined by the summation of the SO<sub>2</sub> emissions from the boiler/preheater, vacuum boiler and generator. Emissions from the boiler/preheater shall be determined by multiplying an emission factor of 0.0571 lb of SO<sub>2</sub> per MMBTU of actual heat input by the boiler/preheater maximum hourly MMBTU rating (0.175 MMBTU/hr). Emissions from the vacuum boiler shall be determined by multiplying an emission factor of 0.0571 lb of SO<sub>2</sub> per MMBTU of actual heat input by the vacuum boiler maximum hourly MMBTU rating (0.175 MMBTU/hr). Emissions from the generator shall be determined by multiplying an emission factor of 0.000476 lb of SO<sub>2</sub> per brake horsepower hour by the generator maximum horsepower rating ( 55 brake horsepower). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6C.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

### 1.d Emission Limitations:

PE (PM<sub>10</sub>) shall not exceed 0.005 pound per hour and 0.023 ton per year.

#### Applicable Compliance Method:

Compliance with the allowable mass emission rate for PM shall be determined by the summation of the PM emissions from the boiler/preheater, vacuum boiler and generator. Emissions from the boiler/preheater shall be determined by multiplying an emission factor of 0.007451 lb of PM<sub>10</sub> per MMBTU of actual heat input by the boiler/preheater maximum hourly MMBTU rating (0.175 MMBTU/hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2(7/98). Emissions from the vacuum boiler shall be determined by multiplying an emission factor of 0.007451 lb of PM per MMBTU of actual heat input by the vacuum boiler maximum hourly MMBTU rating (0.175 MMBTU/hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2(7/98). Emissions from the generator shall be determined by multiplying an emission factor of 0.00007125 lb of PM per brake horsepower hour by the generator maximum horsepower rating ( 55 brake horsepower). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3(7/00). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.

The annual limitation was established by multiplying the hourly emission limitation by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitation.

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

## V. Testing Requirements (continued)

- 1.e** Emission Limitations:  
VOC emissions shall not exceed 7.74 pounds per hour and 6.5 tons per year.

Applicable Compliance Method:

Compliance with the hourly OC emissions from processing TEG may be derived by the following formula:

$$(1/1,000,000) \times \text{BTEX concentration(ppm)} \times 1.68(\text{OC/BTEX ratio}) \times 9.3 \text{ lbs/gal(glycol density)} \times \text{gal/hr processed} = \text{lbs OC/hr}$$

The 1.68 OC to BTEX ratio was derived from the hourly OC to BTEX emissions for a dehydration unit obtained from the Gas Research Institute simulation program GLYCalc Version 3.0 which was ran using the worst case TEG example of Holmes Compressor Station.

Compliance with the allowable hourly emissions limitation will be demonstrated provided that the hourly process rate limitation for TEG is complied with and the total BTEX concentrations do not exceed 5,512 ppm TEG

Compliance with the annual emissions limitation will be demonstrated provided that the annual process rate limitation for TEG is complied with and the total BTEX concentrations do not exceed 5,512 ppm TEG. The annual TEG emissions can be calculated using the maximum lbs TEG/gallon emission rate of .086 lb TEG/gallon(based upon the maximum BTEX concentration for TEG of 5,512 ppm) times the number of gallons of TEG processed per year.

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

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

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

- 1.g** Emission Limitation:  
Particulate emissions from the boiler stack shall not exceed 0.020 lb/mmBtu actual heat input.

Applicable Compliance Method:

Compliance with the allowable mass emission rate for PM shall be determined by multiplying an emission factor of 0.007451 lb of PM10 per MMBTU of actual heat input by the boiler/preheater maximum hourly MMBTU rating (0.175 MMBTU/hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2(7/98). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

- 2.** Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install # 01-08634, issued on August 15, 2002: in Sections V.1.a, V.1.b, V.1.c, V.1.d and V.1.e. The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

[(Authority for term: OAC 3745-77-07(A)(3)(a)(ii)]

## 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>
Glycol reclaimer unit w/0.175 MMBtu/hr boiler/preheater, a 0.175 MMBtu/hr vacuum reboiler, and a 55 Hp gas-fired electrical generator.		

**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

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

1. The permit to install for this emissions unit (P003) was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee 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 TSCREEN. The predicted 1-hour maximum ground-level concentration from the use of the TSCREEN model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Xylene  
 TLV (mg/m3): 434  
 Maximum Hourly Emission Rate (lbs/hr): 1.43  
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 172.7  
 MAGLC (ug/m3):10,333

Pollutant: toluene  
 TLV (mg/m3): 188  
 Maximum Hourly Emission Rate (lbs/hr):1.83  
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 220.7  
 MAGLC (ug/m3):4476

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

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:

- 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;
- 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
- 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.

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":

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- 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/GENERATOR #099G2 (Z002)

**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

- 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>
WAUKESHA H2475G, natural gas-fired 4-Stroke Rich-Burn (4SRB) Emergency Stationary Reciprocating Internal Combustion Engine (RICE)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/MMBTU of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(G)	This emissions unit is exempt from this requirement pursuant to OAC rule 3745-18-06(A).
	40 CFR Part 63, Subpart ZZZZ	See section A.I.2.a below. Exempt. See section A.I.2.b below.

##### 2. Additional Terms and Conditions

- Under OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
- Under 40 CFR 63.6600(c), this emissions unit is defined as an existing emergency stationary RICE. Therefore, the unit does not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ, and 40 CFR Part 63, Subpart A, including the initial notification requirements specified in 40 CFR 63.6645(d).

##### II. Operational Restrictions

- The permittee shall burn only natural gas in this emissions unit.  
(Authority for term: OAC rule 3745-77-07(A)(1))

##### 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.  
(Authority for term: OAC rule 3745-77-07(C)(1))

#### **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.

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

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

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

- 1.a Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be determined based upon an emission factor of 0.0001 lb PM10/bhp-hr multiplied by the horsepower rating 306. This emission factor was derived from the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1))

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- 1.c Emission Limitations:  
PE shall not exceed 0.062 lb/MMBTU of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.0095 lb PM10/MMBTU of heat input. This emission factor is specified in the U.S. EPA reference document AP-42, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3 (7/00).

If required, particulate emissions shall be determined according to Methods 1 through 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

(Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(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>
WAUKESHA H2475G, natural gas-fired 4-Stroke Rich-Burn (4SRB) Reciprocating Internal Combustion Engine (RICE)		

**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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