



13250961046

State of Ohio Environmental Protection Agency

Street Address:

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

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

Mailing Address:

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

**RE: FINAL PERMIT TO INSTALL
MUSKINGUM COUNTY
Application No: 06-07804
Fac ID: 0660960025**

CERTIFIED MAIL

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

DATE: 5/31/2005

Tatum Petroleum Corp Compressor 2
Zachary Tatum
4140 Prospect Church Rd.
Adamsville, OH 43802

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern

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

cc: USEPA

SEDO

RECEIVED

AUG 11 2005

OHIO EPA NEDO

Part I - GENERAL TERMS AND CONDITIONS**A. Permit to Install General Terms and Conditions****1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. 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.

4. 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

and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(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 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>
P001 - Portable Waukesha Model No. F-1197GU. 4-stroke, rich burn, reciprocating compressor engine No. 2(Kelly).	OAC rule 3745-31-05(A)(3)	Nitrogen oxides (NO _x) emissions shall not exceed 4.99lbs/hr and 21.88 tons per year (TPY).
		Carbon monoxide (CO) emissions shall not exceed 4.99 lbs/hr and 21.88 TPY.
		Organic compounds (OC) emissions shall not exceed 0.125 lb/hr and 0.55 TPY.
		Particulate emissions (PE) shall not exceed 1.94TPY.
		The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B)(5)(a), 3745-17-07(A) and 3745-23-06(B).
	OAC rule 3745-17-11(B)(5)(a)	PE from the engine exhaust shall not exceed 0.25 lb/million Btu actual heat input. See A.2.a.
		PE from the engine exhaust shall not exceed 0.310 lb/million Btu actual heat input. See A.2.b.
	OAC rule 3745-17-07(A)	Visible emissions shall not exceed 20% opacity as a six-minute average except as provided by rule.

- a. Emission Limitation:
NO_x emissions shall not exceed 4.99 lbs/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by using the emission factor and calculations provided by the Original Equipment Manufacturer (OEM)(Waukesha).

Conversion Factor:

454 grams = 1 pound

Emission factor: NO_x = 14.00 grams/Bhp-hr

Equation:
$$[\text{Grams/Bhp/hr (Bhp)}] / 454 \text{ grams} = \text{lbs/hr}$$
$$\text{NO}_x = [14.00 \text{ grams/Bhp-hr} \times 162 \text{ Bhp}] / 454 \text{ grams/lb} = 4.99 \text{ lbs/hr}$$

If required, compliance shall be demonstrated based upon emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

- b. Emission Limitation:
NO_x emissions shall not exceed 21.88 TPY.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum hourly emission rate (4.99 lbs/hr) by the maximum annual hours of operation (8,760 hours) and then dividing by 2,000 lbs/ton.

- c. Emission Limitation:
CO emissions shall not exceed 4.99 lbs/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by using the emission factor and calculations provided by the OEM(Waukesha).

Emission factor: CO = 14.00 grams/Bhp-hr

Equation:
$$[\text{Grams/Bhp/hr (Bhp)}] / 454 \text{ grams} = \text{lbs/hr}$$
$$\text{CO} = [14.00 \text{ grams/Bhp-hr} \times 162 \text{ Bhp}] / 454 \text{ grams/lb} = 4.99 \text{ lbs/hr}$$

If required, compliance shall be demonstrated based upon emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

- d. Emission Limitation:
CO emissions shall not exceed 21.88 TPY.

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).

i. Emission Limitation:

PE shall not exceed 1.94 TPY.

Applicable Compliance Method:

The annual emissions (TPY) limitation was developed by multiplying the allowable particulate emission limitation (0.310 lb/million Btu) by the maximum heat input (1.426 million Btu/hr) and by the maximum annual hours of operation (8,760 hours) and then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the short term limitation, compliance shall also be shown with the annual emission limitation.

j. 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, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing the following criteria are met:
 - a. The portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - b. The portable emissions unit is operating pursuant to a currently effective PTI, permit to operate (PTO) or registration status;
 - c. The applicant has provided proper notice of intent to relocate the portable emissions unit to the Southeast District Office (SEDO) and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and,
 - d. In the SEDO's and appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.
2. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met: