



Street Address:
122 S. Front Street

State of Ohio Environmental Protection Agency
Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049

**RE: FINAL PERMIT TO INSTALL
MARION COUNTY
Application No: 03-13047**

CERTIFIED MAIL

DATE: April 26, 2000

Glen Gery Corporation- Iberia Plt
Todd Retterer
PO Box 270 County Road #9
Iberia, OH 43325

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 Director's 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
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

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

cc: USEPA
DAPC, NWDO

AGENCY

**Permit To Install
Terms and Conditions**

**Issue Date: April 26, 2000
Effective Date: April 26, 2000**

FINAL PERMIT TO INSTALL 03-13047

Application Number: 03-13047
APS Premise Number: 0351000051
Permit Fee: **\$12300**
Name of Facility: Glen Gery Corporation- Iberia Plt
Person to Contact: Todd Retterer
Address: PO Box 270 County Road #9
Iberia, OH 43325

Location of proposed air contaminant source(s) [emissions unit(s)]:
**County Road #9
Iberia, Ohio**

Description of proposed emissions unit(s):
**BRICK MANUFACTURING FACILITY & ASSOCIATED SUPPORT PROCESSES &
MODIFICATION TO EXISTING EMISSIONS UNITS F001, P011, & P905**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS**A. State and Federally Enforceable Permit To Install General Terms and Conditions****1. Monitoring and Related Recordkeeping and Reporting Requirements**

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous

calendar quarters. See B.11 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

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

4. Title IV Provisions

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

5. Severability Clause

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

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit To Install fees within 30 days after the issuance of this Permit To Install.

8. 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.

9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this 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 ORC section 3704.08.
 - 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:

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- 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.

10. Permit To Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 thirty (30) days after commencing operation of the source(s) covered by this permit.

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B. State Only Enforceable 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 Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable 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 state-only required 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. 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.

4. 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.

5. Termination of Permit To Install

This permit to install shall terminate within eighteen months of the effective date of the permit to install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

6. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions 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 are inadequate 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 prove to be inadequate or cannot meet applicable standards.

7. 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.

8. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

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9. 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.

10. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit To Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

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

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

C. Permit To Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	128.65
Fugitive PE	36.10
SO ₂	233.08
CO	129.96
VOC	1.88
NO _x	38.69
HF	33.38
HCl	13.15

Glen Gery Corporation- Iberia Plt

Facility ID: **0351000051**

PTI Application: **03-13047**

Date: April 26, 2000

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

None.

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

None.

Glen C

PTI A₁

Date: April 26, 2000

Emissions Unit ID: P901

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. 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>
Raw material processing (feed hopper, primary crusher, storage bins, (2) hammer mills, (2) screens and associated conveying systems)	OAC rule 3745-31-05	2.25 lbs PE/hr, 9.86 TPY PE from the baghouse exhaust stack
		0.44 TPY fugitive PE
		Opacity restrictions (see A.I.2.a)
		Control requirements (see A.I.2.b)
	See A.I.2. c	
	OAC rule 3745-17-07(A)	See A.I.2. c
	OAC rule 3745-17-11(B)	0.05 gram of PM per dry standard cubic meter from the baghouse exhaust stack
	40 CFR Part 60, Subpart OOO	No visible fugitive emissions from any building opening
		7% opacity from the baghouse exhaust stack

2. Additional Terms and Conditions

- 2.a Visible emissions of fugitive dust from the feed hopper shall not exceed 20% opacity as a

3-minute average.

- 2.b** The following are control requirements for this emissions unit: the use of a baghouse and an enclosed building.
- 2.c** The emissions limitations established by this rule are less stringent than those established by OAC rule 3745-31-05 (BAT).

II. Operational Restrictions

1. The pressure drop across the baghouse that controls this emissions unit shall be maintained within the range of 2-6 inches of water while the emissions units are in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).

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:
 - a. Emission Limitation: 2.25 pounds PE/hour and 9.86 tons PE/year from the baghouse exhaust stack

Applicable Compliance Method: Compliance with the emissions limit of 2.25 lbs PE/hr

shall be determined in accordance with Method 5 of 40 CFR Part 60, Appendix A. Compliance with the annual limit of 9.86 TPY will be assumed if the emissions unit is in compliance with its lbs/hr limit since the emissions unit can be operated at 8760 hrs/yr.

- b. Emission Limitation: 0.44 ton fugitive PE/year

Applicable Compliance Method: Fugitive emissions from this EU are insignificant. Compliance with the annual emissions limit of 0.44 ton fugitive PE/year will be assumed if the emissions unit is in compliance with the opacity limit restrictions from the building that this emissions unit is in.

- c. Emission Limitation: Visible emissions of fugitive dust from the feed hopper shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A

- d. Emission Limitation: 0.05 gram PM/dscm

Applicable Compliance Method: Compliance with the emissions limit specified above shall be determined in accordance with 40 CFR Part 60, sections 60.8 and 60.675.

- e. Emission Limitation: 7% opacity from the baghouse exhaust stack

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A

- f. Emission Limitation: No visible fugitive emissions from any building opening

Applicable Compliance Method: Method 22 of 40 CFR Part 60, Appendix A

VI. Miscellaneous Requirements

None.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. 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>
Raw material processing (feed hopper, primary crusher, storage bins, (2) hammer mills, (2) screens and associated conveying systems)		

2. Additional Terms and Conditions

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

SELECT

V. Testing Requirements

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

SELECT

V. Testing Requirements

- 1. 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

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

following the table.

Operations, Property,
and/or Equipment

(4) sand storage bins

Applicable Rules/Requirements

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

OAC rule 3745-17-11(B)

Applicable Emissions Limitations/Control Measures

1.96 lbs PE/hr, 8.59 TPY PE from the baghouse exhaust stack

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

0.44 TPY fugitive PE

No visible fugitive emissions from any building opening

Control requirements (see A.I.2.a)

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

See A.I.2.b

See A.I.2.c

2. Additional Terms and Conditions

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

2.a The following are control requirements for this emissions unit: the use of a baghouse and an enclosed building.

2.b This rule is not applicable because this emissions unit is vented inside the building.

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

- 2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

II. Operational Restrictions

1. The pressure drop across the baghouse that controls this emissions unit shall be maintained within the range of 1-6 inches of water while the emissions unit is in operation.

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

2. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting 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:

- a. Emission Limitation: 1.96 pounds PE/hour and 8.59 tons PE/year from the baghouse exhaust stack

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

Applicable Compliance Method: The 1.96 lbs/hr emissions limitation was derived by multiplying the maximum anticipated particulate loading from the baghouse (0.03 grains/dscf) by the design air flow rate (7623 cfm). This value is converted to a lbs/hr value by dividing by 7000 grains/pound and then multiplying by 60 minutes/hr.

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

Compliance with the annual limit of 8.59 TPY will be assumed if the emissions unit is in compliance with its lbs/hr limit since the emissions unit can be operated at 8760 hrs/yr. If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 5 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

- b. Emission Limitation: 0.44 ton fugitive PE/year

Applicable Compliance Method: Fugitive emissions from this EU are insignificant. Compliance with the annual emissions limit of 0.44 ton fugitive PE/year will be assumed if the emissions unit is in compliance with the opacity limit restrictions from the building that

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

this emissions unit is in.

c. Emission Limitation: No visible fugitive emissions from any building opening

Applicable Compliance Method: Method 22 of 40 CFR Part 60, Appendix A

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

VI. Miscellaneous Requirements

None.

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

SELECT

V. Testing Requirements

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.

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

Operations, Property,
and/or Equipment

(4) sand storage bins

Applicable Rules/Requirements

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

None.

II. Operational Restrictions

None.

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

III. Monitoring and/or Recordkeeping Requirements

None.

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

IV. Reporting Requirements

None.

V. Testing Requirements

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

None.

VI. Miscellaneous Requirements

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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.

Operations, Property, and/or Equipment

SELECT

Applicable Rules/Requirements

SELECT

Applicable Emissions Limitations/Control Measures

SELECT

2. Additional Terms and Conditions

2.a SELECT

II. Operational Restrictions

SELECT

III. Monitoring and/or Recordkeeping Requirements

SELECT

IV. Reporting Requirements

None.

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. 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>
Mold line sand system (2 DeBoer mixers and DeBoer molded brick machine)	OAC rule 3745-31-05	3.92 lbs PE/hr, 17.18 TPY PE from the baghouse exhaust stack
		0.44 TPY fugitive PE
		No visible fugitive emissions from any building opening
		Control requirements (see A.I.2.a)
	OAC rule 3745-17-07(A)	See A.I.2. b
	OAC rule 3745-17-11(B)	See A.I.2. c

2. Additional Terms and Conditions

- 2.a The following are control requirements for this emissions unit: the use of a baghouse and an enclosed building.
2. b This rule is not applicable because this emissions unit is vented inside the building.
- 2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.

Date: April 26, 2000

II. Operational Restrictions

1. The pressure drop across the baghouse that controls this emissions unit shall be maintained within the range of 2-6 inches of water while the emissions units are in operation.

Date: April 26, 2000

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).

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:

- a. Emission Limitation: 3.92 pounds PE/hour and 17.18 tons PE/year from the baghouse exhaust stack

Applicable Compliance Method: The 3.92 lbs/hr emissions limitation was derived by multiplying the maximum anticipated particulate loading from the baghouse (0.03 grains/dscf) by the design air flow rate (15,250 cfm). This value is converted to a lbs/hr value by dividing by 7000 grains/pound and then multiplying by 60 minutes/hr. Compliance with the annual limit of 17.18 TPY will be assumed if the emissions unit is in compliance with its lbs/hr limit since the emissions unit can operated at 8760 hrs/yr. If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 5 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- b. Emission Limitation: 0.44 ton fugitive PE/year

Applicable Compliance Method: Fugitive emissions from this emissions unit are insignificant. Compliance with the annual emissions limit of 0.44 tons fugitive PE/year will be assumed if the EU is in compliance with the opacity limit restrictions from the building that this emissions unit is in.

c. Emission Limitation: No visible fugitive emissions from any building opening

Applicable Compliance Method: Method 22 of 40 CFR Part 60, Appendix A

Date: April 26, 2000

VI. Miscellaneous Requirements

None.

Date: April 26, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Mold line sand system (2 DeBoer mixers and DeBoer molded brick machine)		

2. Additional Terms and Conditions

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Date: April 26, 2000

Emissions Unit ID: **P903**

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. 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>
Extrusion line sand system (pugmill, vacuum chamber, extruder, vibratory sand feeders, sand blaster and slurry tanks)	OAC rule 3745-31-05	3.92 lbs PE/hr, 17.18 TPY PE from the baghouse exhaust stack
		0.44 TPY fugitive PE
		No visible fugitive emissions from any building opening
		Control requirements (see A.I.2.a)
	OAC rule 3745-17-07(A)	See A.I.2. b
	OAC rule 3745-17-11(B)	See A.I.2.c

2. Additional Terms and Conditions

- 2.a The following are control requirements for this emissions unit: the use of a baghouse and an enclosed building.
- 2.b This rule is not applicable because this emissions unit is vented inside the building.
- 2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in

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Marion county.

II. Operational Restrictions

1. The pressure drop across the baghouse that controls this emissions unit shall be maintained within the range of 2-6 inches of water while the emissions units are in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).

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:
 - a. Emission Limitation: 3.92 pounds PE/hour and 17.18 tons PE/year from the baghouse exhaust stack

Applicable Compliance Method: The 3.92 lbs/hr emissions limitation was derived by multiplying the maximum anticipated particulate loading from the baghouse (0.03 grains/dscf) by the design air flow rate (15,250 cfm). This value is converted to a lbs/hr value by dividing by 7000 grains/pound and then multiplying by 60 minutes/hr. Compliance with the annual limit of 17.18 TPY will be assumed if the emissions unit is in compliance with its lbs/hr limit since the emissions unit can operated at 8760 hrs/yr. If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 5 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

Emissions Unit ID: P904

- b. Emission Limitation: 0.44 ton fugitive PE/year

Applicable Compliance Method: Fugitive emissions from this emissions unit are insignificant. Compliance with the annual emissions limit of 0.44 tons fugitive PE/year will be assumed if the emissions unit is in compliance with the opacity limit restrictions from the building that this emissions unit is in.

- c. Emission Limitation: No visible fugitive emissions from any building opening

Applicable Compliance Method: Method 22 of 40 CFR Part 60, Appendix A

Emissions Unit ID: **P904**

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VI. Miscellaneous Requirements

None.

Date: April 26, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Extrusion line sand system (pugmill, vacuum chamber, extruder, vibratory sand feeders, sand blaster and slurry tanks)		

2. **Additional Terms and Conditions**

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

Date: April 26, 2000

Emissions Unit ID: **P904**

None.

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Setting machine (Modification was requested by company to modify PTI #03-8483 to include updated calculations which yield higher emissions limitations than the original PTI. Also, the emissions unit emits insignificant amounts of fugitive emissions and will be given a P900 number. There has been no physical modification made to this emissions unit.)	OAC rule 3745-31-05	2.96 lbs PE/hr, 12.96 TPY PE from the baghouse exhaust stack
		0.44 TPY fugitive PE
		No visible emissions from any building opening
		Control requirements (see A.I.2.a)
	OAC rule 3745-17-07(A)	See A.I.2.b
	OAC rule 3745-17-11(B)	See A.I.2.c

2. Additional Terms and Conditions

- 2.a** The following are control requirements for this emissions unit: the use of a baghouse and an enclosed building.
- 2.b** This rule is not applicable because this emissions unit is vented inside the building.
- 2.c** The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in

Marion county.

II. Operational Restrictions

1. The pressure drop across the baghouses that controls this emissions unit shall be maintained within the range of 2-6 inches of water while the emissions units are in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).

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:

- a. Emission Limitation: 2.96 pounds PE/hour and 12.96 tons PE/year from the baghouse exhaust stack

Applicable Compliance Method: The 2.96 lbs/hr emissions limitation was derived by multiplying the maximum anticipated particulate loading from the baghouse (0.03 grains/dscf) by the design air flow rate (11,505 cfm). This value is converted to a lbs/hr value by dividing by 7000 grains/pound and then multiplying by 60 minutes/hr. Compliance with the annual limit of 12.96 TPY will be assumed if the emissions unit is in compliance with its lbs/hr limit since the emissions unit can operated at 8760 hrs/yr. If required, the permittee shall demonstrate compliance with the above emissions limit pursuant to Method 5 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- b. Emission Limitation: 0.44 ton fugitive PE/year

Applicable Compliance Method: Fugitive emissions from this emissions unit are insignificant. Compliance with the annual emissions limit of 0.44 tons fugitive PE/year will be assumed if the emissions unit is in compliance with the opacity limit restrictions

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from the building that this emissions unit is in.

c. Emission Limitation: No visible fugitive emissions from any building opening

Applicable Compliance Method: Method 22 of 40 CFR Part 60, Appendix A

VI. Miscellaneous Requirements

None.

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Setting machine		

2. **Additional Terms and Conditions**

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

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Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. 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>
Mixing and blending-Agemac 046 mixer, (2) surge bins, (4) additive feeders and associated conveyors	OAC rule 3745-31-05	1.80 lbs PE/hr & 7.88 TPY PE from the baghouse exhaust stack
		0.44 TPY fugitive PE
		No visible fugitive emissions from any building opening
		Control requirements (see A.I.2.a)
	OAC rule 3745-17-07-(A)	See A.I.2.b
		See A.I.2.c
	OAC rule 3745-17-11(B)	

2. Additional Terms and Conditions

- 2.a The following are control requirements for this emissions unit: the use of a baghouse and an enclosed building.
- 2.b This rule is not applicable because this emissions unit is vented inside the building.
- 2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10

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Emissions Unit ID: **P906**

lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.

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II. Operational Restrictions

1. The pressure drop across the baghouse that controls this emissions unit shall be maintained within the range of 2-6 inches of water while the emissions units are in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).

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:

- a. Emission Limitation: 1.80 pounds PE/hour and 7.88 tons PE/year from the baghouse exhaust stack

Applicable Compliance Method: The 1.80 lbs/hr emissions limitation was derived by multiplying the maximum anticipated particulate loading from the baghouse (0.03 grains/dscf) by the design air flow rate (7000 cfm). This value is converted to a lbs/hr value by dividing by 7000 grains/pound and then multiplying by 60 minutes/hr. Compliance with the annual limit of 7.88 TPY will be assumed if the emissions unit is in compliance with its lbs/hr limit since the emissions unit can operated at 8760 hrs/yr. If required, the permittee shall demonstrate compliance with the above emissions limit pursuant to Method 5 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- b. Emission Limitation: 0.44 ton fugitive PE/year

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Applicable Compliance Method: Fugitive emissions from this emissions unit are insignificant. Compliance with the annual emissions limit of 0.44 tons fugitive PE/year will be assumed if the emissions unit is in compliance with the opacity limit restrictions from the building that this emissions unit is in.

- c. Emission Limitation: No visible fugitive emissions from any building opening

Applicable Compliance Method: Method 22 of 40 CFR Part 60, Appendix A

VI. Miscellaneous Requirements

None.

Date: April 26, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Mixing and blending-Agemac 046 mixer, (2) surge bins, (4) additive feeders and associated conveyors		

2. Additional Terms and Conditions

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

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Facility ID: **0351000051**

Emissions Unit ID: **P906**

None.

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Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. 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>
Sand mixer #1	OAC rule 3745-31-05	1.96 lbs PE/hr, 8.59 TPY PE from the baghouse exhaust stack
		0.44 TPY fugitive PE
		No visible fugitive emissions from any building opening
		Control requirements (see A.I.2.a)
	OAC rule 3745-17-07(A)	See A.I.2.b
	OAC rule 3745-17-11(B)	See A.I.2.c

2. Additional Terms and Conditions

- 2.a The following are control requirements for this emissions unit: the use of a baghouse and an enclosed building.
- 2.b This rule is not applicable because this emissions unit is vented inside the building.
- 2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.

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II. Operational Restrictions

1. The pressure drop across the baghouse that controls this emissions unit shall be maintained within the range of 1-6 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).

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:

- a. Emission Limitation: 1.96 pounds PE/hour and 8.59 tons PE/year from the baghouse exhaust stack

Applicable Compliance Method: The 1.96 lbs/hr emissions limitation was derived by multiplying the maximum anticipated particulate loading from the baghouse (0.03 grains/dscf) by the design air flow rate (7623 cfm). This value is converted to a lbs/hr value by dividing by 7000 grains/pound and then multiplying by 60 minutes/hr. Compliance with the annual limit of 8.59 TPY will be assumed if the emissions unit is in compliance with its lbs/hr limit since the emissions unit can be operated at 8760 hrs/yr. If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 5 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- b. Emission Limitation: 0.44 ton fugitive PE/year

Applicable Compliance Method: Fugitive emissions from this EU are insignificant. Compliance with the annual emissions limit of 0.44 tons fugitive PE/year will be assumed if the emissions unit is in compliance with the opacity limit restrictions from the building that this emissions unit is in.

- c. Emission Limitation: No visible fugitive emissions from any building opening
- Applicable Compliance Method: Method 22 of 40 CFR Part 60, Appendix A

Emissions Unit ID: **P907**

Date: April 26, 2000

VI. Miscellaneous Requirements

None.

Date: April 26, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Sand mixer #1		

2. Additional Terms and Conditions

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

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Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. 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>
Sand mixer #2	OAC rule 3745-31-05	1.96 lbs PE/hr, 8.59 TPY PE from the baghouse exhaust stack
		0.44 TPY fugitive PE
		No visible fugitive emissions from any building opening
		Control requirements (see A.I.2.a)
	OAC rule 3745-17-07(A)	See A.I.2.b
	OAC rule 3745-17-11(B)	See A.I.2.c

2. Additional Terms and Conditions

- 2.a The following are control requirements for this emissions unit: the use of a baghouse and an enclosed building.
- 2.b This rule is not applicable because this emissions unit is vented inside the building.
- 2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.

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II. Operational Restrictions

1. The pressure drop across the baghouse that controls this emissions unit shall be maintained within the range of 1-6 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).

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:
 - a. Emission Limitation: 1.96 pounds PE/hour and 8.59 tons PE/year from the baghouse exhaust stack

Applicable Compliance Method: The emissions limit of 1.96 lbs PE/hr is based on the manufacturer's guaranteed outlet concentration from the baghouse of 0.03 gr/dscf times a maximum flow rate from the baghouse of 7623 cfm. Compliance with the annual limit of 8.59 TPY will be assumed if the emissions unit is in compliance with its lbs/hr limit since the emissions unit can be operated at 8760 hrs/yr. If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 5 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

Emissions Unit ID: P908

- b. Emission Limitation: 0.44 ton fugitive PE/year

Applicable Compliance Method: Fugitive emissions from this emissions unit are insignificant. Compliance with the annual emissions limit of 0.44 ton fugitive PE/year will be assumed if the emissions unit is in compliance with the opacity limit restrictions from the building that this emissions unit is in.

- c. Emission Limitation: No visible fugitive emissions from any building opening

Applicable Compliance Method: Method 22 of 40 CFR Part 60, Appendix A

VI. Miscellaneous Requirements

None.

Date: April 26, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Sand mixer #2		

2. **Additional Terms and Conditions**

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

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Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. 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>
Dryer #1 (1 mmBTU/hr natural gas fired direct fired brick dryer)	OAC rule 3745-31-05	0.30 lb PE/hr, 1.31 TPY PE
		0.38 lb NO _x , 1.66 TPY NO _x
		1.21 lbs CO/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	See A.I.2.a
		See A.I.2.b
	OAC rule 3745-17-11(B)	

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-11 is not applicable.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.

II. Operational Restrictions

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

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III. Monitoring and/or Recordkeeping Requirements

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

IV. Reporting Requirements

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

V. Testing Requirements

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

- a. Emission Limitation: 0.30 pound PE/hour and 1.31 ton PE/year

Applicable Compliance Method: The hourly and annual PE limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-1 emission factor of 0.077 pound of particulate emissions per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 5 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- b. Emission Limitation: 0.38 pound NO_x/hour and 1.66 ton NO_x/year

Emissions Unit ID: **P001**

Applicable Compliance Method: The hourly and annual NO_x limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-3 emission factor of 0.098 pound of NO_x per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 7 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- c. Emission Limitation: 1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method: The hourly and annual CO limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 10 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

VI. Miscellaneous Requirements

None.

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Dryer #1 (1 mmBTU/hr natural gas fired direct fired brick dryer)		

2. Additional Terms and Conditions

2.a None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

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Facility ID: **0351000051**

Emissions Unit ID: **P001**

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. 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>
Dryer #2 (1 mmBTU/hr natural gas fired direct fired brick dryer)	OAC rule 3745-31-05	0.30 lb PE/hr, 1.31 TPY PE
		0.38 lb NO _x , 1.66 TPY NO _x
		1.21 lbs CO/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	See A.I.2.a
		See A.I.2.b
	OAC rule 3745-17-11(B)	

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-11 is not applicable.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.

II. Operational Restrictions

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

Date: April 26, 2000

III. Monitoring and/or Recordkeeping Requirements

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

IV. Reporting Requirements

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

V. Testing Requirements

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

- a. Emission Limitation: 0.30 pound PE/hour and 1.31 ton PE/year

Applicable Compliance Method: The hourly and annual PE limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-1 emission factor of 0.077 pound of particulate emissions per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 5 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- b. Emission Limitation: 0.38 pound NO_x/hour and 1.66 tons NO_x/year

Date: April 26, 2000

Applicable Compliance Method: The hourly and annual NO_x limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-3 emission factor of 0.098 pound of NO_x per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 7 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- c. Emission Limitation: 1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method: The hourly and annual CO limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 10 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

VI. Miscellaneous Requirements

Glen Gery Corporation- Iberia Plt

DTI Application: **02 12047**

Facility ID: **0351000051**

Emissions Unit ID: **P002**

None.

Date: April 26, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Dryer #2 (1 mmBTU/hr natural gas fired direct fired brick dryer)		

2. Additional Terms and Conditions

2.a None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Date: April 26, 2000

Emissions Unit ID: **P002**

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. 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>
Dryer #3 (1 mmBTU/hr natural gas fired direct fired brick dryer)	OAC rule 3745-31-05	0.30 lb PE/hr, 1.31 TPY PE
		0.38 lb NO _x , 1.66 TPY NO _x
		1.21 lbs CO/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	See A.I.2.a
		See A.I.2.b
	OAC rule 3745-17-11(B)	

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-11 is not applicable.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.

II. Operational Restrictions

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

Date: April 26, 2000

III. Monitoring and/or Recordkeeping Requirements

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

IV. Reporting Requirements

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

V. Testing Requirements

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

- a. Emission Limitation: 0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method: The hourly and annual PE limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-1 emission factor of 0.077 pound of particulate emissions per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 5 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- b. Emission Limitation: 0.38 pound NO_x/hour and 1.66 tons NO_x/year

Emissions Unit ID: **P003**

Applicable Compliance Method: The hourly and annual NO_x limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-3 emission factor of 0.098 pound of NO_x per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 7 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- c. Emission Limitation: 1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method: The hourly and annual CO limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 10 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

VI. Miscellaneous Requirements

None.

Date: April 26, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Dryer #3 (1 mmBTU/hr natural gas fired direct fired brick dryer)		

2. **Additional Terms and Conditions**

- 2.a None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Glen Gery Corporation- Iberia Plt

DTI Application: **03 13047**

Facility ID: **0351000051**

Emissions Unit ID: **P003**

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. 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>
Dryer #4 (1 mmBTU/hr natural gas fired direct fired brick dryer)	OAC rule 3745-31-05	0.30 lb PE/hr, 1.31 TPY PE
		0.38 lb NO _x , 1.66 TPY NO _x
		1.21 lbs CO/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	See A.I.2.a
	OAC rule 3745-17-11(B)	See A.I.2.b

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-11 is not applicable.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.

II. Operational Restrictions

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

III. Monitoring and/or Recordkeeping Requirements

Emissions Unit ID: **P004**

Date: April 26, 2000

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.

Date: April 26, 2000

IV. Reporting Requirements

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

V. Testing Requirements

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

- a. Emission Limitation: 0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method: The hourly and annual PE limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-1 emission factor of 0.077 pound of particulate emissions per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 5 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- b. Emission Limitation: 0.38 pound NO_x/hour and 1.66 tons NO_x/year

Applicable Compliance Method: The hourly and annual NO_x limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table

Emissions Unit ID: **P004**

Date: April 26, 2000

11.3-3 emission factor of 0.098 pound of NO_x per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

Date: April 26, 2000

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 7 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- c. Emission Limitation: 1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method: The hourly and annual CO limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 10 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

VI. Miscellaneous Requirements

None.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Dryer #4 (1 mmBTU/hr natural gas fired direct fired brick dryer)		

2. **Additional Terms and Conditions**

- 2.a None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. 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>
Dryer #5 (1 mmBTU/hr natural gas fired direct fired brick dryer)	OAC rule 3745-31-05	0.30 lb PE/hr, 1.31 TPY PE
		0.38 lb NO _x , 1.66 TPY NO _x
		1.21 lbs CO/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	See A.I.2.a
	OAC rule 3745-17-11(B)	See A.I.2.b

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-11 is not applicable.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.

II. Operational Restrictions

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

III. Monitoring and/or Recordkeeping Requirements

Emissions Unit ID: **P005**

Date: April 26, 2000

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.

Date: April 26, 2000

IV. Reporting Requirements

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

V. Testing Requirements

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

- a. Emission Limitation: 0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method: The hourly and annual PE limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-1 emission factor of 0.077 pound of particulate emissions per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 5 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- b. Emission Limitation: 0.38 pound NO_x/hour and 1.66 tons NO_x/year

Applicable Compliance Method: The hourly and annual NO_x limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-3 emission factor of 0.098 pound of NO_x per ton of brick multiplied by the

Emissions Unit ID: P005

maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 7 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- c. Emission Limitation: 1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method: The hourly and annual CO limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 10 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

VI. Miscellaneous Requirements

None.

Date: April 26, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Dryer #5 (1 mmBTU/hr natural gas fired direct fired brick dryer)		

2. Additional Terms and Conditions

2.a None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Glen Gery Corporation- Iberia Plt

DTI Application: **02 12047**

Facility ID: **0351000051**

Emissions Unit ID: **P005**

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. 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>
Dryer #6 (1 mmBTU/hr natural gas fired direct fired brick dryer)	OAC rule 3745-31-05	0.30 lb PE/hr, 1.31 TPY PE
		0.38 lb NO _x , 1.66 TPY NO _x
		1.21 lbs CO/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	See A.I.2.a
	OAC rule 3745-17-11(B)	See A.I.2.b

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-11 is not applicable.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.

II. Operational Restrictions

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

III. Monitoring and/or Recordkeeping Requirements

Emissions Unit ID: **P006**

Date: April 26, 2000

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.

Date: April 26, 2000

IV. Reporting Requirements

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

V. Testing Requirements

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

- a. Emission Limitation: 0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method: The hourly and annual PE limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-1 emission factor of 0.077 pound of particulate emissions per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 5 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- b. Emission Limitation: 0.38 pound NO_x/hour and 1.66 tons NO_x/year

Applicable Compliance Method: The hourly and annual NO_x limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-3 emission factor of 0.098 pound of NO_x per ton of brick multiplied by the

Date: April 26, 2000

maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 7 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- c. Emission Limitation: 1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method: The hourly and annual CO limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 10 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

VI. Miscellaneous Requirements

None.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Dryer #6 (1 mmBTU/hr natural gas fired direct fired brick dryer)		

2. **Additional Terms and Conditions**

- 2.a None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Dryer #7 (1 mmBTU/hr natural gas fired direct fired brick dryer)	OAC rule 3745-31-05	0.30 lb PE/hr, 1.31 TPY PE
		0.38 lb NO _x , 1.66 TPY NO _x
		1.21 lbs CO/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	See A.I.2.a
	OAC rule 3745-17-11(B)	See A.I.2.b

2. **Additional Terms and Conditions**

- 2.a This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-11 is not applicable.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.

II. Operational Restrictions

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

III. Monitoring and/or Recordkeeping Requirements

Emissions Unit ID: **P007**

Date: April 26, 2000

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.

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IV. Reporting Requirements

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

V. Testing Requirements

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

- a. Emission Limitation: 0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method: The hourly and annual PE limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-1 emission factor of 0.077 pound of particulate emissions per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 5 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- b. Emission Limitation: 0.38 pound NO_x/hour and 1.66 tons NO_x/year

Applicable Compliance Method: The hourly and annual NO_x limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table

Emissions Unit ID: **P007**

11.3-3 emission factor of 0.098 pound of NO_x per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

Date: April 26, 2000

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 7 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- c. Emission Limitation: 1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method: The hourly and annual CO limitations are based on the emissions unit's potential-to-emit.* Therefore, no hourly or monthly record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

*The potential to emit for this emissions unit was based on the AP-42, 5th edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick multiplied by the maximum hourly production rate of 3.90 TPH of brick dried.

The TPY limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

If required, the permittee shall demonstrate compliance with the above hourly emissions limit pursuant to Method 10 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

VI. Miscellaneous Requirements

None.

Date: April 26, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Dryer #7 (1 mmBTU/hr natural gas fired direct fired brick dryer)		

2. Additional Terms and Conditions

2.a None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

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Glen Gery Corporation- Iberia Plt

DTI Application: **03 13047**

Facility ID: **0351000051**

Emissions Unit ID: **P007**

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. 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>
47.6 mmBTU/hr natural gas direct fired tunnel kiln	OAC rule 3745-31-05	6.54 lbs PE/hr, 28.65 TPY PE
		0.43 lb VOC/hr, 1.88 TPY VOC
		182.60 lbs SO ₂ /hr
		6.18 lbs NO _x , 27.07 TPY NO _x
		21.20 lbs CO/hr, 92.86 TPY CO
		5.68 lbs HF/hr, 24.88 TPY HF
		3.00 lbs HCl/hr, 13.15 TPY HCl
	OAC rule 3745-17-07(A)	See A.I.2.a
		See A.I.2.b
	OAC rule 3745-17-11(B)	See A.I.2.c
OAC rule 3745-18-06	230.0 tons SO ₂ per 12-month rolling period (See A.I.2.d)	
Synthetic minor to avoid Prevention of Significant Deterioration (PSD)		

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2. Additional Terms and Conditions

- 2.a** This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-11 is not applicable.
- 2.b** The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.
- 2.c** The emissions limitations established by this rule are less stringent than those established by OAC rule 3745-31-05 (BAT).
- 2.d** Because the potential SO₂ emissions at the facility are greater than 250 tons per year, the company has requested that the SO₂ limits for emissions unit P008 be made federally enforceable and the appropriate language has been added to this permit to do so. The facility will remain below the "major facility" PSD level for all criteria pollutants.

II. Operational Restrictions

1. The emissions of sulfur dioxide from emissions unit P008 (tunnel kiln) shall not exceed 230.00 tons per year, based upon a rolling 12-month summation of the monthly emissions.*

*Monthly SO₂ emissions from emissions unit P008 are directly related to monthly process weight rates of raw materials and the sulfur content of raw materials processed. Limiting SO₂ emissions from the kiln effectively restricts kiln production. Monthly SO₂ emission rates shall be calculated as described in section A.III.1 of this permit.

To ensure enforceability during the first 12 calendar months of operation, following the issuance of this permit, the permittee shall not exceed the emission levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative SO₂ Emissions</u>
1	20.0
1-2	40.0
1-3	60.0
1-4	80.0
1-5	100.0
1-6	120.0
1-7	140.0

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1-8	160.0
1-9	180.0
1-10	200.0
1-11	220.0
1-12	230.0

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual SO₂ emissions limitation for emissions unit P008 shall be based upon a rolling, 12-month summation of the monthly emissions.

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

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the process weight rate of each brick body raw material for each month;
 - b. the weight % of S in each brick body raw material processed by the permittee during the month of record;
 - c. the SO₂ emissions from each raw material*; and
 - d. the rolling, 12-month summation of SO₂ emissions.**

*The monthly SO₂ emissions (in tons) shall be calculated in the following manner:

For each brick body raw materials where stack test emission data is not available:

$$S_1 = \text{Weight \% sulfur in raw material} \times 1.998 \text{ (conversion factor)} \times \text{Pr}$$

Where:

Pr = the monthly process weight rate (in tons) of raw material

S₁ = SO₂ emissions in tons per month

For each brick body raw materials where stack test emission data is available:

$$S_2 = \text{Stack test emission rate (lbs SO}_2\text{/ton)} \times \text{Pr} / 2000 \text{ lbs}$$

Where:

Pr = the monthly process weight rate (in tons) of raw material

S₂ = SO₂ emissions in tons per month

**The rolling 12-month summation of SO₂ emissions shall be calculated in the following manner:

$$SS_1 + SS_2 = S_3$$

Where:

S₁= The rolling 12-month summation of SO₂ emissions from brick body raw materials where stack test data is not available in TPY.

S₂= The rolling 12-month summation of SO₂ emissions from brick body raw materials where stack test data is not available in TPY.

S₃= The total rolling 12-month SO₂ emissions in TPY.

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

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month emission limitation for SO₂ and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative emission levels.
3. These reports as denoted in term A.IV.2. are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit, which is vented to the main stack, pre-kiln stack and waste heat duct stack while both P008 and P011 are running simultaneously, in accordance with the following requirements:
 - a. The emission testing shall be conducted within 3 months after issuance of the permit.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emissions rates for SO₂ and HF at maximum capacity.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for SO₂, Method 6 of 40 CFR Part 60, Appendix A, for

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HF, Method 26 or 26A of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity to generate SO₂ and HF, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 6.54 pounds PE/hour and 28.65 tons PE/year

Applicable Compliance Method: The emissions limit of 6.54 lbs/hr shall be determined using the AP-42, 5th edition, Table 11.3-1 emission factor of 0.37 pound of particulate emissions per ton of brick multiplied by the maximum hourly production rate of 17.66 TPH of fired brick. Compliance with the annual limit of 28.65 TPY will be assumed if the EU is in compliance with its lbs/hr limit since the EU can operate 8760 hrs/yr.

The lb/hr emissions limit is based on the EU's potential to emit. Therefore, no daily recordkeeping, deviation reporting, or compliance method calculations are required to

Emissions Unit ID: P008

demonstrate compliance with these limits. If required, the permittee shall demonstrate compliance with the above emissions limit pursuant to Method 5 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- b. Emission Limitation: 182.6 pounds SO₂/hour

Applicable Compliance Method: Compliance with the emissions limit of 182.6 lbs/hr shall be determined pursuant to Method 6 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- c. Emission Limitation: 0.43 pound VOC/hour and 1.88 tons VOC/year

Applicable Compliance Method: The emissions limit of 0.42 lb/hr shall be determined using the AP-42, 5th edition, Table 11.3-5 emission factor of 0.024 pound of VOC emissions per ton of brick multiplied by the maximum hourly production rate of 17.66 TPH of fired brick. Compliance with the annual limit of 1.88 TPY will be assumed if the EU is in compliance with its lbs/hr limit since the EU can operate 8760 hrs/yr.

The lb/hr emissions limit is based on the EU's potential to emit. Therefore, no daily recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with these limits. If required, the permittee shall demonstrate compliance with the above emissions limit pursuant to Method 18, 25, or 25A, as applicable, of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- d. Emission Limitation: 6.18 pounds NO_x/hour and 27.07 tons NO_x/year

Applicable Compliance Method: The emissions limit of 6.18 lbs/hr shall be determined using the AP-42, 5th edition, Table 11.3-3 emission factor of 0.35 pound of NO_x emissions per ton of brick multiplied by the maximum hourly production rate of 17.66 TPH of fired brick. Compliance with the annual limit of 27.07 TPY will be assumed if the EU is in compliance with its lbs/hr limit since the EU can operate 8760 hrs/yr.

The lb/hr emissions limit is based on the EU's potential to emit. Therefore, no daily recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with these limits. If required, the permittee shall demonstrate compliance with the above emissions limit pursuant to Method 7 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- e. Emission Limitation: 21.20 pounds CO/hour and 92.86 tons CO/year

Applicable Compliance Method: The emissions limit of 21.20 lbs/hr shall be determined using the AP-42, 5th edition, Table 11.3-3 emission factor of 1.20 pound of CO emissions per ton of brick multiplied by the maximum hourly production rate of 17.66 TPH of fired brick. Compliance with the annual limit of 92.86 TPY will be assumed if the EU is in compliance with its lbs/hr limit since the EU can operate 8760 hrs/yr.

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The lb/hr emissions limit is based on the EU's potential to emit. Therefore, no daily recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with these limits. If required, the permittee shall demonstrate compliance with the above emissions limit pursuant to Method 10 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- f. Emission Limitation: 5.68 pounds hydrogen fluoride (HF)/hour and 24.88 tons HF/year

Applicable Compliance Method: Compliance with the emissions limitation of 5.68 lbs/hr* shall be determined pursuant to Method 26 or 26A of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

*This limit was developed by the company creating an emission factor of 0.321 lb HF/ton brick from a previous stack test on this emissions unit.

Emissions Unit ID: **P008**

The TPY limitation was developed by multiplying the lbs/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- g. Emission Limitation: 3.00 pounds HCl/hour and 13.15 tons HCl/year

Applicable Compliance Method: The emissions limit of 3.00 lbs/hr shall be determined using the AP-42, 5th edition, Table 11.3-4 emission factor of 0.17 pound of HCl emissions per ton of brick multiplied by the maximum hourly production rate of 17.66 TPH of fired brick. Compliance with the annual limit of 13.15 TPY will be assumed if the EU is in compliance with its lbs/hr limit since the EU can operate 8760 hrs/yr.

The lb/hr emissions limit is based on the EU's potential to emit. Therefore, no daily recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with these limits. If required, the permittee shall demonstrate compliance with the above emissions limit pursuant to Method 26 or 26A of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- h. Emission Limitation: 230.0 per tons SO₂ per 12-month rolling period

Applicable Compliance Method: Compliance with the above limitation shall be based on the recordkeeping specified in section A.III of these terms and conditions.

VI. Miscellaneous Requirements

None.

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
47.6 mmBTU/hr natural gas direct fired tunnel kiln		

2. Additional Terms and Conditions

- 2.a None.

II. Operational Restrictions

1. This permit allows for the use of the materials specified for emissions units P008 and P011 by the permittee in Permit to Install (PTI) application number 03-3047. The emission limits for these units were established in accordance with Ohio EPA's "Air Toxics Policy" and Ohio EPA's "Acceptable Incremental Impact Levels". The emissions limits are based on the raw material formulation data and the design parameters of emissions unit's P008 exhaust system, as specified in the application. Compliance with the Ohio EPA's "Air Toxics Policy" and "Acceptable Incremental Impact Levels" was demonstrated for hydrogen fluoride and sulfur dioxide based on the ISCST3 model and a comparison of the predicted concentrations to the acceptable concentrations. The following summarizes the results of the modeling for each pollutant:

- a. Pollutant: hydrogen fluoride
 TLV: 2.5 mg/m³
 Maximum Hourly Emission Rate: 7.62 lbs/hr
 Predicted 1-Hour Max. Concentration: 10.29 ug/m³
 MAGLC: 25 ug/m³
- b. Pollutant: hydrogen fluoride
 TLV: 2.5 mg/m³

Emissions Unit ID: **P008**

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Maximum Hourly Emission Rate: 7.62 lbs/hr

Predicted Monthly Max. Concentration: 0.44 ug/m³

Acceptable Incremental Impact (as 30-day average): 0.50 ug/m³

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- c. Pollutant: sulfur dioxide
Maximum Hourly Emission Rate: 182.60 lbs/hr
Modeled 24-Hour Concentration: 43.99 ug/m³
24-hour Incremental Impact: 45.5 ug/m³

- d. Pollutant: sulfur dioxide
Maximum Hourly Emission Rate: 182.60 lbs/hr
Modeled 3-Hour Concentration: 166.80 ug/m³
Acceptable Incremental Impact: 256.0 ug/m³

- e. Pollutant: sulfur dioxide
Long Term Average Emission Rate: 53.77 lbs/hr*
Modeled Annual Concentration: 1.87 ug/m³
Acceptable Incremental Impact: 10 ug/m³

*The 53.77 lbs/hr emission rate is a long term average, suitable for modeling annual impacts. This is acceptable for sources with highly variable SO₂ emissions. Higher emission rates were modeled for the shorter averaging times.

Any of the following changes may be deemed a "modification" to an emissions unit and, as such, prior notification to and approval from the appropriate Ohio EPA district office or local air agency are required:

- a. Any change in the composition of the raw materials or use of new raw materials that would result in the emissions 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 specified in the above table.

- b. Any change to an emissions unit or its exhaust parameters (e.g., increased emission rate, reduction of gas flow rate, and decreased stack height) that would result in an exceedance of either the Maximum Acceptable Ground-Level Concentration (MAGLC) or PSD Increment specified in the above table.

- c. Any change to the emissions unit or its method of operation that would either require an increase in the emission limitations established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01.

III. Monitoring and/or Recordkeeping Requirements

Emissions Unit ID: **P008**

1. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
 - a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameter, etc.); and
 - b. 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.

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Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. 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>
Shapes kiln-natural gas direct fired batch brick kiln (Modification was requested by the company to modify PTI #03-8483 to include updated calculations which yield higher emissions limitations than the original PTI. There has been no physical modification made to this emissions unit.)	OAC rule 3745-31-05	8.42 lbs SO ₂ /hr
		1.94 lbs HF/hr, 8.50 TPY HF
	OAC rule 3745-17-07(A)	See A.I.2.a
		See A.I.2.b
	OAC rule 3745-17-11(B)	3.08 tons SO ₂ per 12-month rolling period (see A.I.2.c)
	Synthetic minor to avoid Prevention of Significant Deterioration	

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-11 is not applicable.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.
- 2.c Because the potential SO₂ emissions at the facility are greater than 250 tons per year, the company has requested that the SO₂ limits for emissions unit P011 be made federally

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enforceable and the appropriate language has been added to this permit to do so. The facility will remain below the "major facility" PSD level for all criteria pollutants.

II. Operational Restrictions

- The emissions of sulfur dioxide from emissions unit P011 (shapes kiln) shall not exceed 3.08 tons per year, based upon a rolling 12-month summation of the monthly emissions.*
*Monthly SO₂ emissions from emissions unit P011 are directly related to monthly process weight rates of raw materials and the sulfur content of raw materials processed. Limiting SO₂ emissions from the kiln effectively restricts kiln production. Monthly SO₂ emission rates shall be calculated as described in section A.III.1 of this permit.

To ensure enforceability during the first 12 calendar months of operation, following the issuance of this permit, the permittee shall not exceed the emission levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative SO₂ Emissions</u>
1	0.26
1-2	0.52
1-3	0.78
1-4	1.04
1-5	1.30
1-6	1.56
1-7	1.82
1-8	2.08
1-9	2.34
1-10	2.60
1-11	2.86
1-12	3.08

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual SO₂ emissions limitation for emissions unit P008 shall be based upon a rolling, 12-month summation of the monthly emissions.

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

III. Monitoring and/or Recordkeeping Requirements

- The permittee shall maintain monthly records of the following information for this emissions unit:

- a. the process weight rate of each brick body raw material for each month;
- b. the weight % of S in each brick body raw material processed by the permittee during the month of record;
- c. the SO₂ emissions from each raw material*; and
- d. the rolling, 12-month summation of SO₂ emissions.**

*The monthly SO₂ emissions (in tons) shall be calculated in the following manner:

For each brick body raw materials where stack test emission data is not available:

$$S_1 = \text{Weight \% sulfur in raw material} \times 1.998 \text{ (conversion factor)} \times \text{Pr}$$

Where:

Pr = the monthly process weight rate (in tons) of raw material

S₁ = SO₂ emissions in tons per month

For each brick body raw materials where stack test emission data is available:

$$S_2 = \text{Stack test emission rate (lbs SO}_2\text{/ton)} \times \text{Pr} / 2000 \text{ lbs}$$

Where:

Pr = the monthly process weight rate (in tons) of raw material

S₂ = SO₂ emissions in tons per month

**The rolling 12-month summation of SO₂ emissions shall be calculated in the following manner:

$$SS_1 + SS_2 = S_3$$

Where:

S₁= The rolling 12-month summation of SO₂ emissions from brick body raw materials where stack test data is not available in TPY.

S₂= The rolling 12-month summation of SO₂ emissions from brick body raw materials where stack test data is not available in TPY.

S₃= The total rolling 12-month SO₂ emissions in TPY.

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

IV. Reporting Requirements

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

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after the deviation occurs.

2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month emission limitation for SO₂ and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative emission levels.
3. These reports as denoted in term A.IV.2. are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit, which is vented to the main stack while both P008 and P011 are running simultaneously, in accordance with the following requirements:
 - a. The emission testing shall be conducted within 3 months after issuance of the permit.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emissions rates for SO₂ and HF at maximum capacity.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for SO₂, Method 6 of 40 CFR Part 60, Appendix A, for HF, Method 26 or 26A of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity to generate SO₂ and HF, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid

Emissions Unit ID: P011

characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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

- a. Emission Limitation: 8.42 pounds SO₂/hour

Applicable Compliance Method: Compliance with the emissions limit of 8.42 lbs/hr shall be determined pursuant to Method 6 of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

- b. Emission Limitation: 1.94 pounds hydrogen fluoride (HF)/hour and 8.50 tons HF/year

Applicable Compliance Method: Compliance with the emissions limitation of 1.94 lbs/hr* shall be determined pursuant to Method 26 or 26A of 40 CFR Part 60, Appendix A and DAPC engineering guide #16.

*This emission limit is based on the following assumptions:

-100% of the F is emitted in the form of HF during the time the kiln is operating between 1600 and when its temperature stabilizes at 1950 degrees Fahrenheit. This lasts about 3.5 hrs/batch and is a worst case scenario. Emission rates are calculated as follows:

-Batch size is 9200 lbs of which 0.07% (weight percent) is F= 6.8 lbs HF/batch.

-6.8 lbs HF/batch ÷ 3.5 hrs= 1.94 lbs/hr HF;

The TPY limitation was developed by multiplying the lbs/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown for the annual limitation.

- c. Emission Limitation: 3.08 per tons SO₂ per 12-month rolling period

Applicable Compliance Method: Compliance with the above limitation shall be based on the recordkeeping specified in section A.III of these terms and conditions.

VI. Miscellaneous Requirements

Date: April 26, 2000

Emissions Unit ID: **P011**

None.

Date: April 26, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Shapes kiln-natural gas direct fired batch brick kiln		

2. Additional Terms and Conditions

- 2.a None.

II. Operational Restrictions

1. This permit allows for the use of the materials specified for emissions units P008 and P011 by the permittee in Permit to Install (PTI) application number 03-13047. The emission limits for these units were established in accordance with Ohio EPA's "Air Toxics Policy" and Ohio EPA's "Acceptable Incremental Impact Levels". The emissions limits are based on the raw material formulation data and the design parameters of emissions unit's P008 exhaust system, as specified in the application. Compliance with the Ohio EPA's "Air Toxics Policy" and "Acceptable Incremental Impact Levels" was demonstrated for hydrogen fluoride and sulfur dioxide based on the ISCST3 model and a comparison of the predicted concentrations to the acceptable concentrations. The following summarizes the results of the modeling for each pollutant:

- a. Pollutant: hydrogen fluoride
 TLV: 2.5 mg/m³
 Maximum Hourly Emission Rate: 7.62 lbs/hr
 Predicted 1-Hour Max. Concentration: 10.29 ug/m³
 MAGLC: 25 ug/m³
- b. Pollutant: hydrogen fluoride
 TLV: 2.5 mg/m³

Glen Gery Corporation- Iberia Plt

DTI Application: **02 12047**

Facility ID: **0351000051**

Emissions Unit ID: **P011**

Maximum Hourly Emission Rate: 7.62 lbs/hr

Predicted Monthly Max. Concentration: 0.44 ug/m³

Acceptable Incremental Impact (as 30-day average): 0.50 ug/m³

Date: April 26, 2000

- c. Pollutant: sulfur dioxide
Maximum Hourly Emission Rate: 182.60 lbs/hr
Modeled 24-Hour Concentration: 43.99 ug/m³
24-hour Incremental Impact: 45.5 ug/m³

- d. Pollutant: sulfur dioxide
Maximum Hourly Emission Rate: 182.60 lbs/hr
Modeled 3-Hour Concentration: 166.80 ug/m³
Acceptable Incremental Impact: 256.0 ug/m³

- e. Pollutant: sulfur dioxide
Long Term Average Emission Rate: 53.77 lbs/hr*
Modeled Annual Concentration: 1.87 ug/m³
Acceptable Incremental Impact: 10 ug/m³

*The 53.77 lbs/hr emission rate is a long term average, suitable for modeling annual impacts. This is acceptable for sources with highly variable SO₂ emissions. Higher emission rates were modeled for the shorter averaging times.

Any of the following changes may be deemed a "modification" to an emissions unit and, as such, prior notification to and approval from the appropriate Ohio EPA district office or local air agency are required:

- a. Any change in the composition of the raw materials or use of new raw materials that would result in the emissions 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 specified in the above table.

- b. Any change to an emissions unit or its exhaust parameters (e.g., increased emission rate, reduction of gas flow rate, and decreased stack height) that would result in an exceedance of either the Maximum Acceptable Ground-Level Concentration (MAGLC) or PSD Increment specified in the above table.

- c. Any change to the emissions unit or its method of operation that would either require an increase in the emission limitations established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01.

III. Monitoring and/or Recordkeeping Requirements

Date: April 26, 2000

1. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
 - a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameter, etc.); and
 - b. 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.

Date: April 26, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. 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>
Raw material storage piles (clay and shale) (Modification was requested by the company to modify PTI #03-8483 to include updated calculations which yield higher emissions than the original PTI. There has been no physical modification to this emissions unit.)	OAC rule 3745-31-05	10.41 TPY fugitive PE No visible emissions of fugitive particulate emissions from any material storage pile, except for a period of time not to exceed 1 minute during any 60-minute observation period. Best available technology that is sufficient to minimize or eliminate visible emissions of fugitive dust (see A.I.2.b through A.I.2.f)
	OAC rule 3745-17-07(B)	See A.I.2.g
	OAC rule 3745-17-08(B)	See A.I.2.h

2. Additional Terms and Conditions

- 2.a The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:

Raw Material Storage Piles

- 2.b The permittee shall employ best available technology on all load-in and load-out

Emissions Unit ID: **F001**

operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintain minimal drop height to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

Date: April 26, 2000

- 2.c** The above-mentioned best available technology shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- 2.d** The permittee shall employ best available technology for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has determined that there is sufficient inherent moisture to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The above-mentioned best available technology shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.f** Implementation of the above-mentioned best available in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- 2.g** This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- 2.h** This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-08(B).

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

Date: April 26, 2000

1. The following Monitoring and/or Recordkeeping Requirements shall apply to this emissions unit:
 - a. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

Date: April 26, 2000

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
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All	Daily
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- b. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
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All	Daily
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- c. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

<u>storage pile identification frequency</u>	<u>minimum wind erosion inspection</u>
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All	Daily
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- d. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

- e. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.

- f. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

- g. The permittee shall maintain records of the following information:
- i. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - ii. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - iii. the dates the control measures were implemented; and
 - iv. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in A.III.g.iv. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

IV Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences for this emissions unit:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).

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:
 - a. Emission Limitation: 10.40 tons PE/year

Applicable Compliance Method: The emissions limit of 10.40 tons PE/year shall be determined by calculating the emissions from the raw material stockpiles (clay and shale) utilizing State of Iowa Procedure (form 2.8).

Date: April 26, 2000

- b. Emission Limitation: No visible fugitive emissions from any raw material storage pile except for a period of time not to exceed 1 minute during any 60-minute observation period.

Applicable Compliance Method: Method 22 of 40 CFR Part 60, Appendix A

VI. Miscellaneous Requirements

None.

Date: April 26, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1.** 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>
Raw material storage piles (clay and shale)		

2. Additional Terms and Conditions

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Plant roadways and parking lots (excluding quarry roadways)	OAC rule 3745-31-05	58.73 TPY fugitive PE
	OAC rule 3745-17-07(B)	Opacity restrictions (see A.I.2.a)
	OAC rule 3745-17-08(B)	Best available technology that is sufficient to minimize or eliminate visible emissions of fugitive dust (see A.I.2.b.i through A.I.2.b.ii)
		See A.I.2.c
		See A.I.2.d

2. Additional Terms and Conditions

2.a The following opacity restrictions shall apply to this emissions unit:

- i. There shall be no visible fugitive particulate emissions from any paved roadways or parking areas except for a period of time not to exceed 1 minutes during any 60-minute observation period.
- ii. There shall be no visible fugitive particulate emissions from any unpaved roadways or parking areas except for a period of time not to exceed 3 minutes during any 60-minute observation period.

2.b The permittee shall employ the following control measures for the roadways and parking areas to comply with the mass emission limitations and opacity restrictions established by this permit:

- i. For paved roadways and parking areas:

Date: April 26, 2000

aa. The permittee shall sweep the paved roadways and parking areas to

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Date: April 26, 2000

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Date: April 26, 2000

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Date: April 26, 2000

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Date: April 26, 2000

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Date: April 26, 2000

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Date: April 26, 2000

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ab. Any material carried off of the permittee's property and deposited onto

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Date: April 26, 2000

Emissions Unit ID: F002

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Date: April 26, 2000

Emissions Unit ID: F002

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Date: April 26, 2000

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ac. A maximum speed limit of 15 miles per hour shall be posted and enforced

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ad. Open bodied vehicles transporting materials likely to become airborne shall

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Date: April 26, 2000

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- 2.c** This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- 2.d** This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-08(B).

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain records which include the following information for the paved roadways and parking areas:
 - a. The date the paved surfaces were swept.
 - b. The portions of the paved surfaces that were swept.
 - c. The name of the equipment operator responsible for the sweeping.

2. The permittee shall maintain records which include the following information for the unpaved roadways and parking areas:
 - a. The date dust suppressants were applied to the unpaved surfaces.
 - b. The portions of unpaved surfaces that were treated with dust suppressants.
 - c. The application rate of water and any chemical additives (gallons of each per square yard).
 - d. The name of the equipment operator responsible for the application of the dust suppressants.

IV. Reporting Requirements

None.

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:
 - a. Emission Limitation: 58.73 tons PE/year

Applicable Compliance Method: The emissions limit of 58.73 tons PE/year shall be determined by calculating the emissions from the paved and unpaved roadways and parking areas utilizing AP-42 emission factors, sections 13.2.1 (paved roads), revised 1997 and 13.2.2 (unpaved roads), revised 1998.
 - b. Emission Limitation: No visible fugitive emissions from any paved roadways or parking areas except for a period of time not to exceed 1 minute during any 60-minute observation period.

Applicable Compliance Method: Method 22 of 40 CFR Part 60, Appendix A

Date: April 26, 2000

- c. Emission Limitation: No visible fugitive emissions from any unpaved roadways or parking areas except for a period of time not to exceed 3 minutes during any 60-minute observation period.

Applicable Compliance Method: Method 22 of 40 CFR Part 60, Appendix A

VI. Miscellaneous Requirements

None.

Date: April 26, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. 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>
Plant roadways and parking lots (excluding quarry roadways)		

2. **Additional Terms and Conditions**

- 2.a None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.