



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
MEDINA COUNTY**

CERTIFIED MAIL

Street Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov.
Center

Application No: 16-02347

DATE: 6/14/2004

Owens Corning Medina Roofing Plant
Don Hart
890 W Smith Rd
Medina, OH 44256

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

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

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

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

Sincerely,

Michael W. Ahern

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

CC: USEPA

ARAQMD



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install
Terms and Conditions**

**Issue Date: 6/14/2004
Effective Date: 6/14/2004**

FINAL PERMIT TO INSTALL 16-02347

Application Number: 16-02347
APS Premise Number: 1652050040
Permit Fee: **\$14500**
Name of Facility: Owens Corning Medina Roofing Plant
Person to Contact: Don Hart
Address: 890 W Smith Rd
Medina, OH 44256

Location of proposed air contaminant source(s) [emissions unit(s)]:
890 W Smith Rd
Medina, Ohio

Description of proposed emissions unit(s):
Modification to Roofing Products Plant - Physical Changes, Equipment Replacement, New Installations.

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.9 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:
 - 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 ninety (90) days after commencing operation of the source(s) covered by this permit.

11. 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.

12. 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.

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

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. 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.

5. 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 cannot meet the requirements of this permit or cannot meet applicable standards.

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

6. 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.

7. 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).

8. Construction Compliance Certification

If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) 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.

9. 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> |
|------------------|----------------------|
| PM | 116.26 |
| PM-10 | 116.26 |
| SO ₂ | 200.65 |
| NO _x | 36.34 |
| CO | 247.31 |
| VOC | 132.87 |
| H ₂ S | 3.82 |
| Lead | 0.03 |
| HCl | 47.01 |

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

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

I. Applicable Emissions limitations and/or Control Requirements

1. The permittee's existing emissions units are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Asphalt Processing and Asphalt Roofing Manufacturing, 40 CFR Part 63, Subpart LLLLL and therefore are subject to all the requirements listed for the emission units pursuant to 40 CFR Part 63, Subpart LLLLL which include, but not limited to, the following:

for each Group 1 asphalt loading rack and blowing still

- a. reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or
- b. route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent; total emissions from the coating mixer, coater, sealant applicator, and adhesive applicator at each existing asphalt manufacturing line
- c. limit particulate matter emissions to 0.04 kilograms emissions per megagram (kg/Mg) (0.08 pounds per ton, lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced;

for each existing coater

- a. limit exhaust gases to 20 percent opacity; and
- b. limit visible emissions from the emission capture system to 20 percent of any period of consecutive valid observations totaling 60 minutes;

for each Group 2 asphalt storage tank

- a. limit exhaust gases to 0 percent opacity.

2. The permittee shall achieve total, on-going compliance with all applicable requirements of 40 CFR Part 63, Subpart LLLLL on or before the mandatory compliance date of May 1, 2006. Also, the permittee shall complete any performance test required in paragraph 63.8687 within the time limits specified in paragraph 63.8686.

3. Given the applicability of 40 CFR Part 63, Subpart LLLLL, the permittee must also comply with applicable provisions of 40 CFR Part 63, Subpart A. Referenced Sections of 40 CFR Part 63, Subpart A are contained in terms A.I.3a thru A.I.3e below:

- 3.a Operation and maintenance requirements
- a. In accordance with 40 CFR 63.6(e)(1)(i), at all times, including periods of startup, shutdown, and malfunction, owners or operators shall operate and maintain any affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by all relevant standards.
 - b. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the startup, shutdown, and malfunction plan required in paragraph (e)(3) of this section.
 - c. Operation and maintenance requirements established pursuant to section 112 of the Act are enforceable independent of emissions limitations or other requirements in relevant standards.
 - d. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including the startup, shutdown, and malfunction plan required in paragraph (e)(3) of this section), review of operation and maintenance records, and inspection of the source.
 - e. Startup, shutdown, and malfunction plan. (i) The owner or operator of an affected source shall develop and implement a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the relevant standard. As required under section 63.8(c)(1)(i), the plan shall identify all routine or otherwise predictable CMS malfunctions. This plan shall be developed by the owner or operator by the source's compliance date for that relevant standard. The plan shall be incorporated by reference into the source's Title V permit. The purpose of the startup, shutdown, and malfunction plan is to –
 - (i) Ensure that, at all times, owners or operators operate and maintain affected sources, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by all relevant standards;
 - (ii) Ensure that owners or operators are prepared to correct malfunctions as soon as practicable after their occurrence in order to minimize excess emissions of hazardous air pollutants; and
 - (iii) Reduce the reporting burden associated with periods of startup, shutdown, and

malfunction (including corrective action taken to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation).

- f. During periods of startup, shutdown, and malfunction, the owner or operator of an affected source shall operate and maintain such source (including associated air pollution control equipment) in accordance with the procedures specified in the startup, shutdown, and malfunction plan developed under paragraph (e)(3)(i) of this section.
- g. When actions taken by the owner or operator during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator shall keep records for that event that demonstrate that the procedures specified in the plan were followed. These records may take the form of a "checklist," or other effective form of record keeping, that confirms conformance with the startup, shutdown, and malfunction plan for that event. In addition, the owner or operator shall keep records of these events as specified in section 63.10(b) (and elsewhere in this part), including records of the occurrence and duration of each startup, shutdown, or malfunction of operation and each malfunction of the air pollution control equipment. Furthermore, the owner or operator shall confirm that actions taken during the relevant reporting period during periods of startup, shutdown, and malfunction were consistent with the affected source's startup, shutdown and malfunction plan in the semiannual (or more frequent) startup, shutdown, and malfunction report required in section 63.10(d)(5).
- h. If an action taken by the owner or operator during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator shall record the actions taken for that event and shall report such actions within 2 working days after commencing actions inconsistent with the plan, followed by a letter within 7 working days after the end of the event, in accordance with section 63.10(d)(5) (unless the owner or operator makes alternative reporting arrangements, in advance, with the Administrator (see section 63.10(d)(5)(ii)).
- i. The owner or operator shall keep the written startup, shutdown, and malfunction plan on record after it is developed to be made available for inspection, upon request, by the Administrator for the life of the affected source or until the affected source is no longer subject to the provisions of this part. In addition, if the startup, shutdown, and malfunction plan is revised, the owner or operator shall keep previous (i.e., superseded) versions of the startup, shutdown, and malfunction plan on record, to be made available for inspection, upon request, by the Administrator, for a period of 5 years after each revision to the plan.
- j. To satisfy the requirements of this section to develop a startup, shutdown, and malfunction plan, the owner or operator may use the affected source's standard operating procedures (SOP) manual, or an Occupational Safety and Health Administration (OSHA) or other plan, provided the alternative plans meet all the requirements of this section and are made available for inspection when requested by the Administrator.

- k. Based on the results of a determination made under paragraph (e)(2) of this section, the Administrator may require that an owner or operator of an affected source make changes to the startup, shutdown, and malfunction plan for that source. The Administrator may require reasonable revisions to a startup, shutdown, and malfunction plan, if the Administrator finds that the plan:
- (i) Does not address a startup, shutdown, or malfunction event that has occurred;
 - (ii) Fails to provide for the operation of the source (including associated air pollution control equipment) during a startup, shutdown, or malfunction event in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by all relevant standards; or
 - (iii) Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control equipment as quickly as practicable.
- l. If the startup, shutdown, and malfunction plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction but was not included in the startup, shutdown, and malfunction plan at the time the owner or operator developed the plan, the owner or operator shall revise the startup, shutdown, and malfunction plan within 45 days after the event to include detailed procedures for operating and maintaining the source during similar malfunction events and a program of corrective action for similar malfunctions of process or air pollution control equipment.

3.b Performance testing

- a. In accordance with 40 CFR 63.7(a)(2), if required to do performance testing by a relevant standard, and unless a waiver of performance testing is obtained under this section or the conditions of paragraph (c)(3)(ii)(B) of this section apply, the owner or operator of the affected source shall perform such tests as follows:
- (i) Within 180 days after the effective date of a relevant standard for a new source that has an initial startup date before the effective date; or
 - (ii) Within 180 days after initial startup for a new source that has an initial startup date after the effective date of a relevant standard; or
 - (iii) Within 180 days after the compliance date specified in an applicable subpart of this part for an existing source subject to an emission standard established pursuant to section 112(d) of the Act, or within 180 days after startup of an existing source if the source begins operation after the effective date of the relevant emission standard; or
 - (iv) Within 180 days after the compliance date for an existing source subject to an emission standard established pursuant to section 112(f) of the Act; or

- (v) Within 180 days after the termination date of the source's extension of compliance for an existing source that obtains an extension of compliance under section 63.6(i).

3.c Reconstruction

- a. In accordance with 40 CFR 63.9(b)(4), the owner or operator of a new or reconstructed major affected source that has an initial startup after the effective date of a relevant standard under this part and for which an application for approval of construction or reconstruction is required under section 63.5(d) shall provide the following information in writing to the Administrator:
 - (i) A notification of intention to construct a new major affected source, reconstruct a major affected source, or reconstruct a major source such that the source becomes a major affected source with the application for approval of construction or reconstruction as specified in section 63.5(d)(1)(i);
 - (ii) A notification of the date when construction or reconstruction was commenced, submitted simultaneously with the application for approval of construction or reconstruction, if construction or reconstruction was commenced before the effective date of the relevant standard;
 - (iii) A notification of the date when construction or reconstruction was commenced, delivered or postmarked not later than 30 days after such date, if construction or reconstruction was commenced after the effective date of the relevant standard;
 - (iv) [Reserved]
 - (v) A notification of the actual date of startup of the source, delivered or postmarked within 15 calendar days after that date.

3.d General Record keeping

In accordance with 40 CFR 63.10(b) general record keeping requirements,

- a. The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be

maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.

- b. The owner or operator of an affected source subject to the provisions of this part shall maintain relevant records for such source of:
- (i) The occurrence and duration of each startup, shutdown, or malfunction of operation (i.e., process equipment);
 - (ii) The occurrence and duration of each malfunction of the air pollution control equipment;
 - (iii) All maintenance performed on the air pollution control equipment;
 - (iv) Actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan (see section 63.6(e)(3));
 - (v) All information necessary to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan (see section 63.6(e)(3)) when all actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. (The information needed to demonstrate conformance with the startup, shutdown, and malfunction plan may be recorded using a "checklist," or some other effective form of recordkeeping, in order to minimize the recordkeeping burden for conforming events);
 - (vi) Each period during which a CMS is malfunctioning or inoperative (including out-of-control periods);
 - (vii) All required measurements needed to demonstrate compliance with a relevant standard (including, but not limited to, 15-minute averages of CMS data, raw performance testing measurements, and raw performance evaluation measurements, that support data that the source is required to report);
 - (ix) This paragraph applies to owners or operators required to install a continuous emissions monitoring system (CEMS) where the CEMS installed is automated, and where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. An automated CEMS records and reduces the measured data to the form of the pollutant emission standard through the use of a computerized data acquisition system. In lieu of maintaining a file of all CEMS subhourly measurements as required under paragraph (b)(2)(vii) of this section, the owner or operator shall retain the most recent consecutive three averaging periods of subhourly measurements and a file that contains a hard copy of the data acquisition system algorithm used to reduce the measured data into the reportable

form of the standard.

- (x) This paragraph applies to owners or operators required to install a CEMS where the measured data is manually reduced to obtain the reportable form of the standard, and where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. In lieu of maintaining a file of all CEMS subhourly measurements as required under paragraph (b)(2)(vii) of this section, the owner or operator shall retain all subhourly measurements for the most recent reporting period. The subhourly measurements shall be retained for 120 days from the date of the most recent summary or excess emission report submitted to the Administrator.
 - (xi) The Administrator or delegated authority, upon notification to the source, may require the owner or operator to maintain all measurements as required by paragraph (b)(2)(vii), if the administrator or the delegated authority determines these records are required to more accurately assess the compliance status of the affected source.
 - (xii) All results of performance tests, CMS performance evaluations, and opacity and visible emission observations;
 - (xiii) All measurements as may be necessary to determine the conditions of performance tests and performance evaluations;
 - (xiv) All CMS calibration checks;
 - (xv) All adjustments and maintenance performed on CMS;
 - (xvi) Any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements under this part, if the source has been granted a waiver under paragraph (f) of this section;
 - (xvii) All emission levels relative to the criterion for obtaining permission to use an alternative to the relative accuracy test, if the source has been granted such permission under section 63.8(f)(6); and
 - (xviii) All documentation supporting initial notifications and notifications of compliance status under section 63.9.
- c. Record keeping requirement for applicability determinations. If an owner or operator determines that his or her stationary source that emits (or has the potential to emit, without considering controls) one or more hazardous air pollutants is not subject to a relevant standard or other

requirement established under this part, the owner or operator shall keep a record of the applicability determination on site at the source for a period of 5 years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The record of the applicability determination shall include an analysis (or other information) that demonstrates why the owner or operator believes the source is unaffected (e.g., because the source is an area source). The analysis (or other information) shall be sufficiently detailed to allow the Administrator to make a finding about the source's applicability status with regard to the relevant standard or other requirement. If relevant, the analysis shall be performed in accordance with requirements established in subparts of this part for this purpose for particular categories of stationary sources. If relevant, the analysis should be performed in accordance with EPA guidance materials published to assist sources in making applicability determinations under section 112, if any.

3.e Additional Record keeping

- a. In accordance with 40 CFR 63.10(c), additional record keeping requirements for sources with continuous monitoring systems. In addition to complying with the requirements specified in paragraphs (b)(1) and (b)(2) of this section, the owner or operator of an affected source required to install a CMS by a relevant standard shall maintain records for such source of --
 - (i) All required CMS measurements (including monitoring data recorded during unavoidable CMS breakdowns and out-of-control periods);
 - (ii)-(iv) [Reserved]
 - (v) The date and time identifying each period during which the CMS was inoperative except for zero (low-level) and high-level checks;
 - (vi) The date and time identifying each period during which the CMS was out of control, as defined in section 63.8(c)(7);
 - (vii) The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions and parameter monitoring exceedances, as defined in the relevant standard(s), that occurs during startups, shutdowns, and malfunctions of the affected source;
 - (viii) The specific identification (i.e., the date and time of commencement and completion) of each time period of excess emissions and parameter monitoring exceedances, as defined in the relevant standard(s), that occurs during periods other than startups, shutdowns, and malfunctions of the affected source.
4. Stack emissions shall be limited to 0.01 grains per dry standard cubic foot (gr/dscf) of particulate emissions for the 4-wide and Roofing Line process dust collectors. These process dust collectors control the following emission units:

4-Wide Process Dust Collector

Mat Unwind #2 P916;
 Asphalt Filler Mixer #2 P907;
 Material Surfacing Applicator #2 P909;
 Surfacing Material System #1 F103; and
 Surfacing Material System #2 F105

Roofing Line Process Dust Collector

Mineral Filler Handling System #2 P904;
 Material Surfacing Applicator #1 P905; and
 Material Surfacing Applicator #2 P909.

5. In order to comply with federal Prevention of Significant Deterioration and OAC rule 3745-31-(13) thru (20) air dispersion modeling requirements, the following exhaust stack requirements shall be maintained:
 - a. exhaust stack from the JZ thermal incinerator (egress point A43) that serves emissions units T007 - T009, T026, T029, T031 - T033, T036, T037, and P003 - P005 shall be at least 130 feet above ground level and be in compliance with all variables associated with that exhaust stack that demonstrated compliance with those requirements;
 - b. exhaust stack from the asphalt pre-heater (egress point A42A) that serves emissions unit B006 shall be at least 35 feet above ground level and be in compliance with all variables associated with that exhaust stack that demonstrated compliance with those requirements;
 - c. exhaust stack from the PCC thermal incinerator (egress point A74A) that serves emissions units T027, T030, T035, J005, P006, and P007 shall be at least 135 feet above ground level and be in compliance with all variables associated with that exhaust stack that demonstrated compliance with those requirements; and
 - d. exhaust stack from the emergency generator (egress points A105 and A106) that serves emissions unit B014 shall be at least 45 feet above ground level and be in compliance with all variables associated with that exhaust stack that demonstrated compliance with those requirements.

6. The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the U.S. EPA, 40 CFR Part 60:

| <u>Source Number</u> | <u>Source Description</u> | <u>NSPS Regulation(s)</u> |
|----------------------|-----------------------------------|---------------------------|
| P003 | Convertor #2 | UU |
| P006 | Convertor #4 | UU |
| P007 | Convertor #5 | UU |
| P902 | Mineral Filler Handling System #1 | UU |
| P906 | Asphalt Coater/Surge Tank #1 | UU |
| P908 | Asphalt Coater/Surge Tank #2 | UU |

Owens Corning Medina Roofing Plant
 PTI Application: **16-02347**
Issued: 6/14/2004

Facility ID: **1652050040**

| | | |
|------|----------------------------------|---------|
| T007 | Asphalt Storage Tank #50 | UU & Kb |
| T035 | Asphalt Storage Tank #46 | UU & Kb |
| T036 | Asphalt Storage Tank #69 | UU & Kb |
| T037 | Asphalt Storage Tank #70 | UU & Kb |
| T038 | Mineral Spirits Storage Tank #68 | Kb |

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date)
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
 DAPC - Air Quality Modeling and Planning
 P.O. Box 1049
 Columbus, OH 43216-1049

and

Akron Regional Air Quality Management District
 Room 904
 146 South High Street
 Akron, OH 44308

II. Operational Restrictions

1. The permittee shall not combust any No. 2 distillate fuel oil at the entire facility (B002 - B014, B101 - B107, F102 - F109, J001 - J006, K001 - K002, L001, P003 - P007, P102 - P103, P901 - P902, P904 - P919, T001, T004 - T023, and T026 - T050) that has a sulfur content greater than 0.3% by weight.
2. The maximum annual operating hours for the firing of No. 2 distillate fuel oil in each of

the following emissions units Boiler #1 (B004), Boiler #2 (B002), Hot Oil Heater #5 (B107), and the two heaters on Asphalt Storage Tank #46 (B011 and B012) shall not exceed 500 hours per year, based upon a rolling, 12-month summation of the operating hours. The permittee has existing operation records and therefore does not need to be limited to first year monthly operating hours amounts.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the operating hours for the firing of No. 2 distillate fuel oil following information in each emissions units Boiler #1 (B004), Boiler #2 (B002), Hot Oil Heater #5 (B107), and the two heaters on Asphalt Storage Tank #46 (B011 and B012).
2. For each shipment of No. 2 distillate fuel oil received for burning at the facility (B002 - B014, B101 - B107, F102 - F109, J001 - J006, K001 - K002, L001, P003 - P007, P102 - P103, P901 - P902, P904 - P919, T001, T004 - T023, and T026 - T050), the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitations. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).
2. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur content limitation based upon the calculated sulfur content from Section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for the 4-wide and Roofing Line process dust collectors that control the following emissions units:

4-Wide Process Dust Collector

Mat Unwind #2 P916;
 Asphalt Filler Mixer #2 P907;
 Material Surfacing Applicator #2 P909;
 Surfacing Material System #1 F103; and
 Surfacing Material System #2 F105

Roofing Line Process Dust Collector

Mineral Filler Handling System #2 P904;
 Material Surfacing Applicator #1 P905; and
 Material Surfacing Applicator #2 P909.

in accordance with the following requirements:

2. The emission testing shall be conducted within 6 months after issuance of the permit.
3. The emission testing shall be conducted to demonstrate compliance with the stack particulate emission limitation.

4. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1 thru 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

Also within 6 months after the modifications to the roofing production lines and asphalt plant are complete, the permittee shall conduct, or have conducted, emission testing for the following emissions units with the following test methods:

for PM, Methods 1 thru 5 of 40 CFR Part 60, Appendix A for emissions units J003, J005, P003, P006, P007, P902, P906, P908, P917, T007, T035, T036, and T037

for PM-10, Methods 1 thru 5 and 201 of 40 CFR Part 60, Appendix A for emissions units J003, J005, P003, P006, P007, P902, P906, P908, P917, T007, T035, T036, and T037

for H₂S, Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A for emissions units J003, J005, P003, P006, P007, P906, P908, T007, T035, T036, and T037

for SO₂, Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A for emissions units J003, J005, P003, P006, P007, P906, P908, T007, T035, T036, and T037

for CO, Methods 1 thru 4 and 10 or 10B of 40 CFR Part 60, Appendix A for emissions units J003, J005, P003, P006, P007, P906, P908, P917, T007, T035, T036, and T037

for VOC, Methods 1 thru 4 and 18 or 25/25A of 40 CFR Part 60, Appendix A for emissions units J003, J005, P003, P006, P007, P906, P908, P917, T007, T035, T036, T037, and T038

5. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, 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.

VI. Miscellaneous Requirements

None

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

1. The permit to install for these emissions units (J003, J005, P003, P006 - P007, P902, P906, P908, P910, P911, P917, T007, and T035 - T038) were evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions units' exhaust systems, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by these emissions units using data from the permit to install application and the ISCST3 model . The predicted 1-hour maximum ground-level concentration from the use of the ISCST3 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: HCl

TLV (mg/m³): 2.20 (based on 2 ppm STEL)

Modeled Emission Rate (lbs/hr): 5.906 (total)

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 22.7

MAGLC (ug/m³): 52.4 (the application presents a value of 131.6 ppm based on the 7.5 mg/m³ STEL)

Pollutant: Benzene

TLV (mg/m³): 1.60 (based on 0.5 ppm TWA)

Modeled Emission Rate (lbs/hr): 0.455 (total)

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 1.8

MAGLC (ug/m³): 38.1

Pollutant: Ethyl Benzene

TLV (mg/m³): 434 (based on 100 ppm TWA)

Modeled Emission Rate (lbs/hr): 0.429 (total)

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 1.7

MAGLC (ug/m³): 10,333

2. Physical changes to or changes in the method of operation of these emissions units after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters

used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

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

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

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> |
|---|--|
| J003 - Asphalt Loading Rack #3 controlled with regenerative thermal incinerator that is operated by electricity rather than fossil fueled- Modification | <p>OAC rule 3745-31-05(A)(3)</p> <p>OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(1) OAC rule 3745-18-06</p> <p>OAC rule 3745-21-07(E)</p> <p>OAC rule 3745-31- (13) thru (20)</p> <p>OAC rule 3745-31- 05(C)</p> |

40 CFR Part 63, Subpart LLLLL

| Applicable Emissions Limitations/Control Measures | Visible particulate emissions from the exhaust stack shall not exceed 10% opacity, as a 6-minute average. |
|--|--|
| The requirements of this rule also includes compliance with the requirements of OAC rules 3745-21-07(E), 3745-31-(13) thru (20), 3745-31-05(C), and 40 CFR Part 63, Subpart LLLLL. | The emission limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3). |
| Particulate matter (PM) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 4.68 lbs/hr. | Exempt. See A.II.3 below. The tons per rolling 12-month period shall not exceed: |
| Sulfur dioxide (SO ₂) emissions shall not exceed 0.58 lb/hr. | CO - 0.17 VOC - 6.42 SO ₂ - 0.39 |
| Carbon monoxide (CO) emissions shall not exceed 0.25 lb/hr. | The destruction efficiency shall not be less than 95% for CO and VOC. |
| Hydrogen sulfide (H ₂ S) emissions shall not exceed 0.03 lb/hr. | The total annual asphalt loaded from this emissions unit shall not exceed 87,500 tons per year, as a rolling, 12-month summation. |
| Volatile organic compound (VOC) emissions shall not exceed 16.60 lbs/hr. | The tons per rolling 12-month period shall not exceed: |
| The hourly emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations. | 1.81 tpy PM/PM-10 0.02 tpy H ₂ S. See A.II.2 below. |
| The destruction efficiency shall not be less than 95% for PM/PM-10 and H ₂ S. | Reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or |

route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent.

The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a None.

II. Operational Restrictions

1. The permittee shall only operate two (2) emissions units simultaneously of the following emissions units: Loading Rack #1 (J001), Loading Rack #2 (J002), and Loading Rack #3 (J003).
2. The maximum annual asphalt throughput limitation for this emissions unit shall not exceed 87,500 tons per year, based upon a rolling, 12-month summation of the monthly asphalt throughput. The permittee has existing asphalt production records and therefore does not need to be limited to first year monthly asphalt throughput amounts.
3. The permittee shall only load asphalt which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).
4. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
5. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established operating range while the emissions unit is in operation.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and
 - b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
2. The permittee shall maintain documentation showing whether or not each asphalt material is a photochemically reactive material.
 3. The permittee shall maintain monthly records of the following information:
 - a. the asphalt throughput rate in tons for each month;
 - b. operating times of emissions units Loading Rack #1 (J001), Loading Rack #2 (J002), and Loading Rack #3 (J003);
 - c. the PM/PM-10, H₂S, CO, VOC, and SO₂ emissions in tons for each month;
 - d. the rolling, 12-month summation of the asphalt monthly throughput rates in tons; and
 - e. the rolling, 12-month summation of the PM/PM-10, H₂S, CO, VOC, and SO₂ emissions rates in tons.
 4. The permittee shall install, operate and maintain a continuous monitor and recorder which measures the static pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modification deemed necessary by the permittee. Exceedance of the normal operating static pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.

The permittee shall maintain monthly records which show the date(s) and time(s) when the vacuum manifold static pressure falls below normal operating levels.
 5. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;

- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing if a "photochemically reactive material" [as defined in OAC rule 3745-21-01(C)(5)] is employed in the emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after such an occurrence.
2. The permittee shall submit quarterly deviation (excursion) reports which identify
 - a. all exceedances of operating more than 2 of the following emissions units simultaneously: Loading Rack #1 (J001), Loading Rack #2 (J002), and Loading Rack #3 (J003);
 - b. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above;
 - c. all exceedances of the rolling, 12-month asphalt throughput limitation;
 - d. all exceedances of the rolling, 12-month emissions limitations; and
 - e. all periods of time during which the static pressure in the vacuum manifold exceeded the normal operating range.
3. The quarterly deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.
4. The permittee shall also submit annual reports which specify the total PM/PM-10, SO₂, CO, VOC, and H₂S emissions from this emission unit for the previous calendar year. These reports shall be submitted by April 15th of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
5. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.

IssuedEmissions Unit ID: **J003**

6. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

Emission Limitation:

Visible particulate emissions from the exhaust stack shall not exceed 10% opacity, as a 6-minute average.

Applicable compliance methods:

If required, compliance shall be determined in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).

2. Emissions Limitations:

4.68 lbs/hr of PM/PM-10

1.81 tons per year of PM/PM-10, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

For PM, Methods 1 thru 4, 5 and 5A of 40 CFR Part 60, Appendix A.

For PM-10, Methods 1 thru 4, 5 and 201 of 40 CFR Part 51, Appendix M.

Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation in term A.II.2.

3. Emissions Limitations:

0.58 lb/hr of SO₂0.39 ton per year of SO₂, based upon a rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation based upon a rolling, 12-month summation can be ensured by compliance with the lb/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation in term A.II.2.

4. Emissions Limitations:

0.25 lb/hr of CO

0.17 ton per year of CO, based upon a rolling, 12-month summation.

Applicable Compliance Methods

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 10 or 10B of 40 CFR Part 60, Appendix A.

Compliance with ton per year, based upon a rolling, 12-month summation, limitation can be ensured

by compliance with the lb/hr limitation and the annual based upon a rolling, 12-month summation throughput limitation in term A.II.2.

5. Emissions Limitations:

16.60 lbs/hr of VOC

6.42 tons per year of VOC, based upon a rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation in A.II.2.

6. Emissions Limitations:

0.03 lb/hr of H₂S

0.02 ton per year of H₂S, based upon a rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation based upon a rolling, 12-month summation can be ensured

IssuedEmissions Unit ID: **J003**

by compliance with the lb/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation in term A.II.2.

7. Operational Limitation:

The total annual asphalt loaded from this emissions unit shall not exceed 87,500 tons per year, as a rolling, 12-month summation.

Applicable Compliance Method:

Record keeping requirements in term A.III.3.

VI. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.

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> |
|--|--------------------------------------|--|
| J003 - Asphalt Loading Rack #3 controlled with regenerative thermal incinerator - Modification | None | None |

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

38

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: **J003**

None

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> |
|---|--------------------------------------|
| J005 - Asphalt Loading Rack #4 controlled with PCC thermal incinerator - Modification | OAC rule 3745-31-05(A)(3) |

| | | <p style="text-align: center;"><u>Applicable Emissions Limitations/Control Measures</u></p> |
|---|--|---|
| OAC rule 3745-31-05(C) | | <p>The requirements of this rule also includes compliance with the requirements of OAC rules 3745-21-07(E), 3745-31-(13) thru (20), 3745-31-05(C), and 40 CFR Part 63, Subpart LLLLL.</p> |
| 40 CFR Part 63, Subpart LLLLL | | <p>Particulate matter (PM) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 5.44 lbs/hr.</p> |
| OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(1) OAC rule 3745-18-06 | | <p>Sulfur dioxide (SO₂) emissions shall not exceed 1.16 lbs/hr.</p> |
| OAC rule 3745-21-07(E) | | <p>Carbon monoxide (CO) emissions shall not exceed 0.50 lb/hr.</p> |
| OAC rule 3745-31- (13) thru (20) | | <p>Hydrogen sulfide (H₂S) emissions shall not exceed 0.07 lb/hr.</p> |
| | | <p>Volatile organic compound (VOC) emissions shall not exceed 19.29 lbs/hr.</p> |
| | | <p>The hourly emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.</p> |
| | | <p>The destruction efficiency shall not be less than 95% for PM/PM-10 and H₂S.</p> |
| | | <p>PM emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and</p> |

Issued

Emissions Unit ID: J005

| | | |
|---|---|--|
| <p>T035 shall not exceed 0.17 pound per hour and 0.76 ton per year, as a rolling, 12-month summation.</p> | <p>and T035 shall not exceed 0.06 pound per hour and 0.28 ton per year, as a rolling, 12-month summation.</p> | <p>The compliance date for this rule is May 1, 2006.</p> |
| <p>NOx emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 1.73 pounds per hour and 7.56 tons per year, as a rolling, 12-month summation.</p> | <p>Visible particulate emissions from the exhaust stack shall not exceed 10% opacity, as a 6-minute average.</p> <p>The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).</p> | |
| <p>SO₂ emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 3.68 pounds per hour and 16.11 tons per year, as a rolling, 12-month summation.</p> | <p>Exempt. See A.II.2 below.</p> <p>The tons per rolling 12-month period shall not exceed:</p> <p>CO - 0.52 VOC - 20.16 SO₂ - 1.22.</p> | |
| <p>CO emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 0.99 pound per hour and 4.33 tons per year, as a rolling, 12-month summation.</p> | <p>The destruction efficiency shall not be less than 95% for CO and VOC.</p> <p>The total annual asphalt loaded from this emissions unit shall not exceed 275,000 tons per year, as a rolling, 12-month summation.</p> <p>The tons per rolling 12-month period shall not exceed:</p> <p>5.69 tpy PM/PM-10 0.070 tpy H₂S.</p> | |
| <p>OC emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling J005, P006 - P007, T027, T030,</p> | <p>See A.II.1 below.</p> <p>Exempt, Group 2 asphalt loading rack.</p> | |

2. Additional Terms and Conditions**2.a** None**II. Operational Restrictions**

1. The maximum annual asphalt throughput limitation for this emissions unit shall not exceed 275,000 tons per year, based upon a rolling, 12-month summation of the monthly asphalt throughput. The permittee has existing asphalt production records and therefore does not need to be limited to first year monthly asphalt throughput amounts.
2. The permittee shall only load asphalt which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).
3. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
4. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established range while the emissions unit is in operation.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and
- b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

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Emissions Unit ID: J005

2. The permittee shall maintain documentation showing whether or not each asphalt material is a photochemically reactive material.
3. The permittee shall maintain monthly records of the following information:
 - a. the asphalt throughput rate in tons for each month;
 - b. the PM/PM-10, H₂S, CO, VOC, and SO₂ emissions in tons (both process and products of combustion from the incinerator) for each month;
 - c. the rolling, 12-month summation of the asphalt monthly throughput rates in tons; and
 - d. the rolling, 12-month summation of the PM/PM-10, H₂S, CO, VOC, and SO₂ emissions rates in tons (both process and products of combustion from the incinerator).
4. The permittee shall install, operate and maintain a continuous monitor and recorder which measures the static pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modification deemed necessary by the permittee. Exceedance of the normal operating static pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.

The permittee shall maintain monthly records which show the date(s) and time(s) when the vacuum manifold static pressure falls below normal operating levels.

5. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing if a "photochemically reactive material" [as defined in OAC rule 3745-21-01(C)(5)] is employed in the emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air

- agency) within 45 days after such an occurrence.
2. The permittee shall submit quarterly deviation (excursion) reports which identify
 - a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above;
 - b. all exceedances of the rolling, 12-month asphalt throughput limitation;
 - c. all exceedances of the rolling, 12-month emissions limitations (both process and products of combustion from the incinerator); and,
 - d. all periods of time during which the static pressure in the vacuum manifold exceeded the normal operating range.
 3. The quarterly deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.
 4. The permittee shall also submit annual reports which specify the total PM/PM-10, SO₂, CO, VOC, and H₂S emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15th of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
 5. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.
 6. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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:

Emission Limitation:

Issued

Emissions Unit ID: J005

Visible particulate emissions from the exhaust stack shall not exceed 10% opacity, as a 6-minute average.

Applicable compliance method:

If required, compliance shall be determined in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).

2. Emissions Limitations:

5.44 lbs/hr of PM/PM-10

5.69 tons per year of PM/PM-10, based upon a the rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

For PM, Methods 1 thru 4, 5 and 5A of 40 CFR Part 60, Appendix A.

For PM-10, Methods 1 thru 4, 5 and 201 of 40 CFR Part 51, Appendix M.

Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured

by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation in term A.II.1.

3. Emissions Limitations:

1.16 lbs/hr of SO₂

1.22 tons per year of SO₂, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:
Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured

by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation in term A.II.1.

4. Emissions Limitations:

0.50 lb/hr of CO

0.52 ton per year of CO, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Method 1 thru 4 and 10 or 10B of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation based upon a rolling, 12-month summation can be ensured

by compliance with the lb/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation in term A.II.1.

5. Emissions Limitations:

19.29 lbs/hr of VOC

20.16 tons per year of VOC, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured

by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation in term A.II.1.

6. Emissions Limitations:

0.07 lb/hr of H₂S

0.07 ton per year of H₂S, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A.

Compliance with ton per year summation limitation based upon a rolling, 12-month can be ensured

by compliance with the lb/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation in term A.II.1.

7. Emissions Limitations:

0.17 lb/hr of PM (products of combustion from incinerator)

0.76 ton per year of PM, as a rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation, as a rolling, 12-month summation, shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to ton per year.

8. Emissions Limitations:

0.99 lb/hr of CO (products of combustion from incinerator)

4.33 tons per year of CO

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation as a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

9. Emissions Limitations:

3.68 lb/hr of SO₂ (products of combustion from incinerator)
16.11 tons per year of SO₂

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation as a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

10. Emissions Limitations:

0.06 lb/hr of VOC (products of combustion from incinerator)
0.28 ton per year of VOC

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation as a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to ton per year.

11. Emissions Limitations:

1.73 lbs/hr of NO_x (products of combustion from incinerator)
7.56 tons per year of NO_x

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation as a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year

and dividing by 2000 to convert to tons per year.

12. Operational Limitation:

The total annual asphalt loaded from this emissions unit shall not exceed 275,000 tons per year, as a rolling, 12-month summation.

50

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PTI A₁

Issued: 6/14/2004

Emissions Unit ID: J005

Applicable Compliance Method:

Record keeping requirements in term A.III.3.

VI. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.
2. The terms and conditions of this Permit to Install shall supersede all the applicable air pollution control requirements for this emissions unit contained in Permit to Install number 16-01921, as issued on May 12, 1999.

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> |
|---|--------------------------------------|--|
| J005 - Asphalt Loading Rack #4 controlled with PCC thermal incinerator - Modification | None | None |

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

52

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: J005

None

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> |
|--|--------------------------------------|
| P003 - Convertor #2 - asphalt blowing still with thermal incinerator - New | OAC rule 3745-31-05(A)(3) |

Emissions Unit ID: P003

| | | Applicable Emissions <u>Limitations/Control Measures</u> |
|--|----------------------------------|---|
| | OAC rule 3745-31- (13) thru (20) | <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-23-06, 3745-31- (13) thru (20), 3745-31-05(C), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL.</p> <p>Particulate matter (PM) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 3.07 lbs/hr</p> <p>Nitrogen oxides (NO_x) emissions shall not exceed 2.47 lbs/hr and 10.80 tons per year.</p> |
| | OAC rule 3745-31-05(C) | <p>Hydrogen sulfide (H₂S) emissions shall not exceed 0.15 lb/hr.</p> <p>Hydrogen chloride (HCl) emissions shall not exceed 4.53 lbs/hr and 14.13 tons per year.</p> |
| | 40 CFR Part 60, Subpart UU | <p>Lead emissions shall not exceed 9.18E-04 lb/hr and 4.02E-03 ton per year.</p> <p>Sulfur dioxide (SO₂) shall not exceed 23.25 lbs/hr.</p> <p>Carbon monoxide (CO) emissions shall not exceed 15.13 lbs/hr.</p> |
| | 40 CFR Part 63, Subpart LLLLL | <p>Volatile organic compound (VOC) emissions shall not exceed 1.74 lbs/hr.</p> |
| <p>OAC rule 3745-17-07(A) OAC rule 3745-17-11 OAC rule 3745-18-06</p> <p>OAC rule 3745-23-06</p> | | <p>The hourly and annual emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly or annual records are required to demonstrate compliance with these limitations.</p> |

| | | |
|---|---|--|
| Visible particulate emissions shall not exceed 0% opacity from the exhaust stack. | T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 3.13 pounds per hour and 13.69 tons per year, as a rolling, 12-month summation. | The overall control efficiency (including capture and control) shall not be less than 95% for CO and VOC. |
| The overall control efficiency (including capture and control) shall not be less than 95% for PM/PM-10 and H ₂ S. | CO emissions from fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.84 pound per hour and 3.68 tons per year, as a rolling, 12-month summation. | The total annual combined asphalt production rate from emission units P003, P006, and P007 shall not exceed 395,312 tons per year, as a rolling, 12-month summation. |
| PM emissions from fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.15 pound per hour and 0.64 ton per year, as a rolling, 12-month summation. | OC emissions from fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.05 pound per hour and 0.24 ton per year, as a rolling, 12-month summation. | The tons per rolling 12-month period shall not exceed: 13.45 tpy PM/PM-10 0.67 tpy H ₂ S. |
| NO _x emissions from fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 1.47 pounds per hour and 6.43 tons per year, as a rolling, 12-month summation. | The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3). | See A.II.3 below. 0.60 kilograms of particulate/megagram of asphalt charged to the still (1.2 lbs/ton). |
| SO ₂ emissions from fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, | See A.I.2.a below. The tons per rolling 12-month period shall not exceed: CO - 66.26 VOC - 7.61 SO ₂ - 65.38 | 0.67 kilograms of particulate/megagram of asphalt charged to the still when a catalyst is added to the still (1.3 lbs/ton). Visible particulate emissions shall not exceed 0% opacity for the exhaust gases. |
| | | Reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent. The compliance date for this rule is May 1, 2006. |

Issued

Emissions Unit ID: P003

2. Additional Terms and Conditions

- 2.a** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rules 3745-23-06 by committing to comply with the best available technology requirements established in Permit to Install 16-02347.

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
2. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established operating range while the emissions unit is in operation.
3. The maximum total annual asphalt processed in emissions units P003, P006 and P007, combined shall not exceed 395,312 tons per year, based upon a rolling, 12-month summation of the asphalt processed rates. The permittee has existing asphalt production records and therefore does not need to be limited to first year monthly asphalt throughput amounts.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the fume incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. all 3-hour blocks of time during which the average combustion temperature within the fume incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and,
 - b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
2. The permittee shall install, operate and maintain a continuous monitor and recorder which measures the pressure in the vacuum manifold while the emissions unit is in operation. The

- monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. Exceedance of the normal operating pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.
3. The permittee shall maintain monthly records which show the date(s) and time(s) when the vacuum manifold pressure falls below normal operating levels. These records shall be kept on site and be made available to the Director, or any authorized representative of the Director, for review during normal business hours.
 4. The permittee shall maintain monthly records of the following information:
 - a. the asphalt throughput rate in tons for each month;
 - b. the rolling, 12-month summation of the asphalt monthly throughput rates in tons;
 - c. the emission rates in tons (both process and products of combustion from the incinerator) for PM/PM-10, H₂S, CO, VOC, and SO₂; and
 - d. the rolling, 12-month summation of the PM/PM-10, H₂S, CO, VOC, and SO₂ emissions rates in tons (both process and products of combustion from the incinerator).
 5. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the fume incinerator does not comply with the temperature limitation specified in term A.II.1. This report shall contain, as a

Issued

Emissions Unit ID: P003

minimum, the date, time or occurrence, cause, explanation and corrective action taken for any temperature variations identified.

2. The permittee shall submit quarterly deviation (excursion) reports which identify:
 - a. all exceedances of the rolling, 12-month asphalt processing rate limitation in term A.II.3; and
 - b. all exceedances of the rolling, 12-month emissions limitations (both process and products of combustion from the incinerator).
3. The permittee shall submit quarterly deviation (excursion) reports which identify all times during which the pressure in the vacuum manifold exceeded the normal operating range. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any exceedances identified.
4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c of this permit.
5. The permittee shall also submit annual reports which specify the total PM/PM-10, SO₂, CO, VOC, and H₂S emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15th of each year. This reporting requirements may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
6. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.
7. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:
2. The emission testing shall be conducted within 6 months after issuance of the permit.
3. The emission testing shall be conducted to demonstrate compliance with the stack particulate emission limitation.

4. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1 thru 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
5. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, 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.

6. 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:

Visible particulate emissions shall not exceed 0% opacity from the exhaust stack.

Applicable compliance method:

If required, compliance shall be determined in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).

b. Emissions Limitations:

3.07 lbs/hr of PM/PM-10

13.45 ton per year of PM/PM-10, based upon a the rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by stack testing in accordance with the procedures in Methods 1 thru 4 and 5A of 40 CFR Part 60, Appendix A. As long as the permittee is in compliance with the operational requirements specified in A.II.3, ongoing compliance with the lbs/hr emission limitation is ensured after the stack testing is conducted above. Compliance with tons per year summation limitation based upon a rolling, 12-month can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation in term A.II.1.

c. Emissions Limitations:

0.60 kilograms of particulate/megagram of asphalt charged to the still (1.2 lbs/ton)

0.67 kilograms of particulate/megagram of asphalt charged to the still when a catalyst is added to the still (1.3 lbs/ton)

Applicable Compliance Methods:

Compliance with the emissions limitations shall be determined by stack testing in accordance with the procedures in Methods 1 thru 4, 5 and 5A of 40 CFR Part 60, Appendix A as specified in terms A.V.1 thru 5.

d. Emissions Limitations:

23.25 lbs/hr of SO₂

65.38 tons per year of SO₂, based upon a rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation.

e. Emissions Limitations:

15.13 lbs/hr of CO

66.26 tons/yr of CO, based upon a rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 10 or 10B of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation.

f. Emissions Limitations:

2.47 lbs/hr of NO_x

10.80 tons per year of NO_x

Applicable Compliance Methods:

compliance shall be determined using the following methods:

Methods 1 thru 4 and 7 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr

limitation and the annual throughput limitation

g. Emissions Limitations:

1.74 lbs/hr of VOC

7.61 tons per year of VOC, based upon a the rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Method 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation.

h. Emissions Limitations:

0.15 lb/hr of H₂S

0.67 ton per year of H₂S, based upon a rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation based upon a the rolling, 12-month summation can be ensured by compliance with the lb/hr limitation and the annual throughput limitation based upon a the rolling, 12-month summation.

i. Emissions Limitations:

9.18E-04 lb/hr of lead

4.02E-03 ton per year of lead

Applicable Compliance Methods:

If required, compliance shall be determined using the following methods:

Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured by compliance with the lb/hr limitation and the annual throughput limitation

j. Emissions Limitations:

0.15 lb/hr of PM (products of combustion from incinerator)
0.64 ton per year of PM, based upon a the rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation based upon a the rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to ton per year.

k. Emissions Limitations:

0.84 lb/hr of CO (products of combustion from incinerator)
3.68 tons per year of CO based upon a the rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation based upon a the rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

l. Emissions Limitations:

3.13 lbs/hr of SO₂ (products of combustion from incinerator)
13.69 tons per year of SO₂ based upon a the rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation based upon a the rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to

65

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: P003

convert to tons per year.

m. Emissions Limitations:

0.06 lb/hr of VOC (products of combustion from incinerator)

0.24 ton per year of VOC based upon a the rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation based upon a the rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to ton per year.

n. Emissions Limitations:

1.47 lbs/hr of NO_x (products of combustion from incinerator)
6.43 tons per year of NO_x based upon a the rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation based upon a the rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

o. Operational Limitation:

The total annual combined asphalt production rate from emission units P003, P006, and P007 shall not exceed 395,312 tons per year, as a rolling, 12-month summation.

Applicable Compliance Method:

Record keeping requirements in term A.III.4.

p. Emissions Limitations:

4.53 lbs/hr HCl
14.13 tons per year of HCl

Applicable Compliance Method:

If required, compliance shall be determined using the following methods:

Methods 1 thru 4 and 26 or 26A of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation.

VI. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.

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> |
|---|--------------------------------------|--|
| P003 - Convertor #2 - asphalt blowing still with thermal incinerator - Modification | None | None |

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

69

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: P003

None

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> |
|--|--------------------------------------|
| P006 - Convertor #4 - asphalt blowing still with a PCC thermal incinerator - Modification | OAC rule 3745-31-05(A)(3) |

71

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: P006

OAC rule 3745-23-06

40 CFR Part 63, Subpart LLLLL

OAC rule 3745-31- (13) thru (20)

OAC rule 3745-31-05(C)

40 CFR Part 60, Subpart UU

OAC rule 3745-17-07(A)

OAC rule 3745-17-11

OAC rule 3745-18-06

| Applicable Emissions Limitations/Control Measures | emissions shall not exceed 26.93 lbs/hr. | T027, T030, and T035 shall not exceed 1.73 pounds per hour and 7.56 tons per year, as a rolling, 12-month summation. |
|--|---|--|
| The requirements of this rule also include compliance with the requirements of OAC rules, 3745-23-06, 3745-31-(13) thru (20), 3745-31-05(C), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLL. | Carbon monoxide (CO) emissions shall not exceed 17. lbs/hr. | SO ₂ emissions from from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 3.68 pounds per hour and 16.11 tons per year, as a rolling, 12-month summation. |
| Particulate matter (PM) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 3.57 lbs/hr. | Volatile organic compound (VOC) emissions shall not exceed 2.02 lbs/hr. | CO emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 0.99 pound per hour and 4.33 tons per year, as a rolling, 12-month summation. |
| Nitrogen oxides (NO _x) emissions shall not exceed 2.85 lbs/hr and 12.49 tons per year. | The hourly and annual emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly or annual records are required to demonstrate compliance with these limitations. | OC emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling J005, P006 - P007, T027, T030, and T035 shall not exceed 0.06 pound per hour and 0.28 ton per year, as a rolling, 12-month summation. |
| Hydrogen chloride (HCl) emissions shall not exceed 5.27 lbs/hr and 16.44 tons per year. | Visible particulate emissions shall not exceed 0% opacity from the exhaust stack. | The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3). |
| Hydrogen sulfide (H ₂ S) emissions shall not exceed 0.18 lb/hr. | The overall control efficiency (including capture and control) shall not be less than 95% for PM/PM-10 and H ₂ S. | See A.I.2.a below. |
| Lead (Pb) emissions shall not exceed 1.06E-03 lb/hr and 4.66E-03 ton per year. | PM emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 0.17 pound per hour and 0.76 ton per year, as a rolling, 12-month summation. | The tons per rolling 12-month period shall not exceed: |
| Sulfur dioxide (SO ₂) | NO _x emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, | |

Issued

Emissions Unit ID: P006

CO - 77.10
VOC - 8.85
SO₂ - 75.55

The overall control efficiency (including capture and control) shall not be less than exceed 95% for CO and VOC.

The total annual combined asphalt production rate from emission units P003, P006, and P007 shall not exceed 395,312 tons per year, as a rolling, 12-month summation.

The tons per rolling 12-month period shall not exceed:

15.64 tpy PM/PM-10
0.78 tpy H₂S

See A.II.3 below.

0.60 kilograms of particulate/megagram of asphalt charged to the still (1.2 lbs/ton)

0.67 kilograms of particulate/megagram of asphalt charged to the still when a catalyst is added to the still (1.3 lbs/ton)

0% opacity for the exhaust gases

Reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or

route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent.

The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

- 2.a** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rules 3745-23-06 by committing to comply with the best available technology requirements established in Permit to Install 16-02347.

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
2. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established operating range while the emissions unit is in operation.
3. The maximum total annual asphalt processed in emissions units P003, P006 and P007, combined shall not exceed 395,312 tons per year, based upon a rolling, 12-month summation of the asphalt processed rates. The permittee has existing asphalt production records and therefore does not need to be limited to first year monthly asphalt throughput amounts.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the fume incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. all 3-hour blocks of time during which the average combustion temperature within the fume incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and,
- b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

Issued

Emissions Unit ID: P006

2. The permittee shall install, operate and maintain a continuous monitor and recorder which measures the static pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. Exceedance of the normal operating static pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.
3. The permittee shall maintain monthly records which show the date(s) and time(s) when the vacuum manifold static pressure falls below normal operating levels. These records shall be kept on site and be made available to the Director, or any authorized representative of the Director, for review during normal business hours.
4. The permittee shall maintain monthly records of the following information:
 - a. the asphalt throughput rate in tons for each month;
 - b. the rolling, 12-month summation of the asphalt monthly throughput rates in tons;
 - c. the emission rates in tons (both process and products of combustion from the incinerator) for PM/PM-10, H₂S, CO, VOC, and SO₂; and,
 - d. the rolling, 12-month summation of the PM/PM-10, H₂S, CO, VOC, and SO₂ emissions rates in tons (both process and products of combustion from the incinerator).
5. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the fume incinerator does not comply with the temperature limitation specified in term A.II.1. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any

temperature variations identified.

2. The permittee shall submit quarterly deviation (excursion) reports which identify:
 - a. all exceedances of the rolling, 12-month asphalt processing rate limitation in term A.II.3; and,
 - b. all exceedances of the rolling, 12-month emissions limitations (both process and products of combustion from the incinerator).
3. The permittee shall submit quarterly deviation (excursion) reports which identify all times during which the static pressure in the vacuum manifold exceeded the normal operating range. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any exceedances identified.
4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c of this permit
5. The permittee shall also submit annual reports which specify the total PM/PM-10, SO₂, CO, VOC, and H₂S emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
6. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.
7. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:
2. The emission testing shall be conducted within 6 months after issuance of the permit.

Issued

Emissions Unit ID: P006

3. The emission testing shall be conducted to demonstrate compliance with the stack particulate emission limitation.
4. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1 thru 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
5. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, 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.

6. 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:

Visible particulate emissions shall not exceed 0% opacity from the exhaust stack.

Applicable compliance method:

If required, compliance shall be determined in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New

Issued

Emissions Unit ID: P006

Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).

b. Emissions Limitations:

3.57 lbs/hr of PM/PM-10

15.64 tons per year of PM/PM-10, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by stack testing in accordance with the procedures in Methods 1 thru 4 and 5A of 40 CFR Part 60, Appendix A. Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation.

c. Emissions Limitations:

0.60 kilograms of particulate/megagram of asphalt charged to the still (1.2 lbs/ton)

0.67 kilograms of particulate/megagram of asphalt charged to the still when a catalyst is added to the still (1.3 lbs/ton)

Applicable Compliance Methods:

Compliance with these emissions limitations shall be determined by stack testing in accordance with the procedures in Methods 1 thru 4, and 5A of 40 CFR Part 60, Appendix A as specified in terms A.V.1 thru 5.

d. Emissions Limitations:

26.93 lbs/hr of SO₂75.55 tons per year of SO₂, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation based upon a rolling, 12-month summation can be

ensured by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation.

e. Emissions Limitations:

17.60 lbs/hr of CO

77.10 tons per year of CO, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 10 or 10B of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation.

f. Emissions Limitations:

2.85 lbs/hr of NO_x

12.49 tons per year of NO_x

Applicable Compliance Methods:

If required, compliance shall be determined using the following methods:

Methods 1 thru 4 and 7 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation

g. Emissions Limitations:

2. 02 lbs/hr of VOC

8. 85 tons per year of VOC, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation.

h. Emissions Limitations:

0.18 lb/hr of H₂S0.78 ton per year of H₂S, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation based upon a rolling, 12-month summation can be ensured by compliance with the lb/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation.

i. Emissions Limitations:

1.06E-03 lb/hr of lead

4.66E-03 ton per year of lead

Applicable Compliance Methods:

If required, compliance shall be determined using the following methods:

Methods 1 thru 4 and 12 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured by compliance with the lb/hr limitation and the annual throughput limitation

j. Emissions Limitations:

5.27 lbs/hr of HCl

16.44 tons per year of HCl

Applicable Compliance Methods:

If required, compliance shall be determined using the following methods:

Methods 1 thru 4 and 26 or 26A of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation

k. Emissions Limitations:

0.17 lb/hr of PM (products of combustion from incinerator)

0.76 ton per year of PM based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to ton per year.

l. Emissions Limitations:

0.99 lb/hr of CO (products of combustion from incinerator)

4.33 tons per year of CO based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

m. Emissions Limitations:

3.68 lb/hr of SO₂ (products of combustion from incinerator)
16.11 tons per year of SO₂ based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

n. Emissions Limitations:

0.06 lb/hr of VOC (products of combustion from incinerator)
0.28 ton per year of VOC based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to ton per year.

o. Emissions Limitations:

1.73 lbs/hr of NO_x (products of combustion from incinerator)
7.56 tons per year of NO_x based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation

based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

p. **Operational Limitation:**

The total annual combined asphalt production rate from emission units P003, P006, and P007 shall not exceed 395,312 tons per year, as a rolling, 12-month summation.

Applicable Compliance Method:

Record keeping requirements in term A.III

VI. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.
2. The terms and conditions of this Permit to Install shall supersede all applicable the air pollution control requirements for this emissions unit contained in Permit to Install number 16-1622 as issued on June 2, 1997.

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> |
|---|--------------------------------------|--|
| P006 - Convertor #4 - asphalt blowing still with thermal incinerator - Modification | None | None |

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - 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> |
|---|--------------------------------------|
| P007 - Convertor #5 - asphalt blowing still with a PCC thermal incinerator - Modification | OAC rule 3745-31-05(A)(3) |

| | | <p style="text-align: center;"><u>Applicable Emissions Limitations/Control Measures</u></p> |
|---|-------------------------------|---|
| | OAC rule 3745-31-05(C) | <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-07(G), 3745-23-06, 3745-31- (13) thru (20), 3745-31-05(C), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL.</p> |
| | 40 CFR Part 60, Subpart UU | <p>Particulate matter (PM) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 3.57 lbs/hr.</p> |
| | | <p>Nitrogen oxides (NO_x) emissions shall not exceed 2.85 lbs/hr and 12.49 tons per year.</p> |
| | | <p>Hydrogen chloride (HCl) emissions shall not exceed 5.27 lbs/hr and 16.44 tons per year.</p> |
| | | <p>Hydrogen sulfide (H₂S) emissions shall not exceed 0.18 lb/hr.</p> |
| <p>OAC rule 3745-17-07(A) OAC rule 3745-17-11 OAC rule 3745-18-06</p> | 40 CFR Part 63, Subpart LLLLL | <p>Lead (Pb) emissions shall not exceed 1.06E-03 lb/hr and 4.66E-03 ton per year.</p> |
| <p>OAC rule 3745-23-06</p> | | <p>Sulfur dioxide (SO₂) emissions shall not exceed 26.93 lbs/hr.</p> |
| <p>OAC rule 3745-31- (13) thru (20)</p> | | <p>Carbon monoxide (CO) emissions shall not exceed 17.60 lbs/hr.</p> |
| <p>OAC rule 3745-31- (13) thru (20)</p> | | <p>Volatile organic compound (VOC) emissions shall not exceed 2.02 lbs/hr.</p> |
| | | <p>The hourly and annual emission limitations outlined are based upon the</p> |

Issued: 6/14/2004

emission unit's Potential to Emit (PTE). Therefore, no hourly or annual records are required to demonstrate compliance with these limitations.

Visible particulate emissions from the exhaust gases shall not exceed 0% opacity.

The overall control efficiency (including capture and control) shall not be less than 95% for PM/PM-10 and H₂S.

PM emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 0.17 pound per hour and 0.76 ton per year, as a rolling, 12-month summation..

NO_x emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 1.73 pounds per hour and 7.56 tons per year, as a rolling, 12-month summation.

SO₂ emissions from fossil

fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 3.68 pounds per hour and 16.11 tons per year, as a rolling, 12-month summation.

CO emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 0.99 pound per hour and 4.33 tons per year, as a rolling, 12-month summation.

OC emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling J005, P006 - P007, T027, T030, and T035 shall not exceed 0.06 pound per hour and 0.28 ton per year, as a rolling, 12-month summation.

The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3).

See A.I.2.a below.

The tons per rolling 12-month period shall not exceed:

CO - 77.10
VOC - 8.85
SO₂ - 75.55

The overall control efficiency (including capture and control) shall not be less than 95% for CO and VOC.

The total annual combined asphalt production rate from emission units P003, P006, and P007 shall not exceed 395,312 tons per year, as a rolling, 12-month summation.

The tons per rolling 12-month period shall not exceed:

15.64 tpy PM/PM-10
0.78 tpy H₂S.

See A.II.3 below.

0.60 kilograms of particulate/megagram of asphalt charged to the still (1.2 lbs/ton)

0.67 kilograms of particulate/megagram of asphalt charged to the still when a catalyst is added to the still (1.3 lbs/ton)

0% opacity for the exhaust gases

Reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or

route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent;

The compliance date for this rule is May 1, 2006.

Issued

Emissions Unit ID: P007

2. Additional Terms and Conditions

- 2.a** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rules 3745-23-06 by committing to comply with the best available technology requirements established in Permit to Install 16-02347.

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
2. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established operating range while the emissions unit is in operation.
3. The maximum total annual asphalt processed in emissions units P003, P006 and P007, combined shall not exceed 395,312 tons per year, based upon a rolling, 12-month summation of the asphalt processed rates. The permittee has existing asphalt production records and therefore does not need to be limited to first year monthly asphalt throughput amounts.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the fume incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. all 3-hour blocks of time during which the average combustion temperature within the fume incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and
 - b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
2. The permittee shall install, operate and maintain a continuous monitor and recorder which measures the static pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary

- by the permittee. Exceedance of the normal operating static pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.
3. The permittee shall maintain monthly records which show the date(s) and time(s) when the vacuum manifold static pressure falls below normal operating levels. These records shall be kept on site and be made available to the Director, or any authorized representative of the Director, for review during normal business hours.
 4. The permittee shall maintain monthly records of the following information:
 - a. the asphalt throughput rate in tons for each month;
 - b. the rolling, 12-month summation of the asphalt monthly throughput rates in tons;
 - c. the emission rates in tons (both process and products of combustion from the incinerator) for PM/PM-10, H₂S, CO, VOC, and SO₂; and
 - d. the rolling, 12-month summation of the PM/PM-10, H₂S, CO, VOC, and SO₂ emissions rates in tons (both process and products of combustion from the incinerator).
 5. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

Issued

Emissions Unit ID: P007

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the fume incinerator does not comply with the temperature limitation specified in term A.II.1. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any temperature variations identified.
2. The permittee shall submit quarterly deviation (excursion) reports which identify
 - a. all exceedances of the rolling, 12-month asphalt processing rate limitation in term A.II.3; and,
 - b. all exceedances of the rolling, 12-month emissions limitations (both process and products of combustion from the incinerator).
3. The permittee shall submit quarterly deviation (excursion) reports which identify all times during which the static pressure in the vacuum manifold exceeded the normal operating range. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any exceedances identified.
4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements as specified in Part I - General Term and Condition A.1.c of this permit.
5. The permittee shall also submit annual reports which specify the total PM/PM-10, SO₂, CO, VOC, and H₂S emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
6. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.
7. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency)

by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:
2. The emission testing shall be conducted within 6 months after issuance of the permit.
3. The emission testing shall be conducted to demonstrate compliance with the stack particulate emission limitation.
4. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1 thru 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
5. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, 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.

6. Compliance with the emission limitation(s) in Section A.I of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:

Visible particulate emission from the exhaust stack shall not exceed 0% opacity.

Applicable compliance method:

If required, compliance shall be determined in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).

- b. Emissions Limitations:

3.57 lbs/hr of PM/PM-10

15.64 tons per year of PM/PM-10, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by stack testing in accordance with the procedures in Method 5A of 40 CFR Part 60, Appendix A. Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation.

- c. Emissions Limitations:

0.60 kilograms of particulate/megagram of asphalt charged to the still (1.2 lbs/ton)

0.67 kilograms of particulate/megagram of asphalt charged to the still when a catalyst is added to the still (1.3 lbs/ton)

Applicable Compliance Methods:

Compliance with these emissions limitations shall be determined by stack testing in accordance with the procedures in Methods 1 thru 4 and 5A of 40 CFR Part 60, Appendix A as specified in terms A.V.1 thru 5.

- d. Emissions Limitations:

26.93 lbs/hr of SO₂

75.55 tons per year of SO₂ based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation.

e. Emissions Limitations:

17.60 lbs/hr of CO

77.10 tons per year of CO based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 10 or 10B of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation.

f. Emissions Limitations:

2.85 lbs/hr of NO_x

12.49 tons per year of NO_x

Applicable Compliance Methods:

If required, compliance shall be determined using the following methods:

Methods 1 thru 4 and 7 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation.

g. Emissions Limitations:

2. 02 lbs/hr of VOC

8. 85 tons per year of VOC, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation.

h. Emissions Limitations:

0.18 lb/hr of H₂S

0.78 ton per year of H₂S, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation based upon a rolling, 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation based upon a rolling, 12-month summation.

i. Emissions Limitations:

1.06E-03 lb/hr of lead

4.66E-03 ton per year of lead

Applicable Compliance Methods:

If required, compliance shall be determined using the following methods:

Methods 1 thru 4 and 12 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured by compliance with the lb/hr limitation and the annual throughput limitation

j. Emissions Limitations:

5.27 lbs/hr of HCl

16.44 tons per year of HCl

Applicable Compliance Methods:

If required, compliance shall be determined using the following methods:

Methods 1 thru 4 and 26 or 26A of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation.

k. Emissions Limitations:

0.17 lb/hr of PM (products of combustion from incinerator)

0.76 ton per year of PM based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to ton per year.

l. Emissions Limitations:

0.99 lb/hr of CO (products of combustion from incinerator)

4.33 tons per year of CO based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

m. Emissions Limitations:

3.68 lb/hr of SO₂ (products of combustion from incinerator)

16.11 tons per year of SO₂ based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

n. Emissions Limitations:

0.06 lb/hr of VOC (products of combustion from incinerator)
0.28 ton per year of VOC based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to ton per year.

o. Emission Limitation:

1.73 lbs/hr of NO_x (products of combustion from incinerator)
7.56 tons per year of NO_x based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

p. Operational Limitation:

The total annual combined asphalt production rate from emission units P003, P006, and P007 shall not exceed 395,312 tons per year, as a rolling, 12-month summation.

Applicable Compliance Method:

Record keeping requirements in term A.III

VI. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.
2. The terms and conditions of this Permit to Install shall supersede all applicable the air pollution control requirements for this emissions unit contained in Permit to Install number 16-1622 as issued on June 2, 1997.

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> |
|--|--------------------------------------|--|
| P007 - Convertor #5 - asphalt blowing still with thermal incinerator - Modification | None | None |

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

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Issued: 6/14/2004

Emissions Unit ID: P007

None

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> |
|--|--|
| P902 - Mineral Filler Handling System #1 - Filler Upper Surge Bin #1, Filler Lower Surge Bun #1, and Filler Heater #1 Controlled with Dust Collectors (Serves 4-Wide Roofing Line) | OAC rule 3745-31-05(A)(3) OAC rule 3745-17-07(A) OAC rule 3745-17-07(B) OAC rule 3745-17-11 OAC rule 3745-17-08(B) OAC rule 3745-31-05(C) 40 CFR Part 60, Subpart UU |

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Emissions Unit ID: P902

Applicable Emissions Limitations/Control Measures

The requirements of this rule also include compliance with the requirements of OAC rules OAC rule 3745-17-08(B), 3745-31-05(C)(5), and 40 CFR Part 60, Subpart UU.

Particulate matter (PM) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) shall not exceed:

0.30 lb/hr (Combined Stack Emissions);

0.20 lb/hr PM/PM-10 (Upper Surge Bin #1 Dust Collector Stack); and,

0.10 lb/hr PM/PM-10 (Filler Heater #1 Dust Collector Stack).

The hourly emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.

The control efficiency of the dust collectors shall not be less than 99% for PM/PM-10.

The emissions limitations

specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3) and 40 CFR Part 60, Subpart UU.

The use bins shall be adequately enclosed and vented to dust collectors.

Annual operating hours shall be limited to 8,250 hours per year based on a rolling 12-month summation.

The tons per rolling 12-month period shall not exceed:

1.23 tons per year of PM/PM -10

1% opacity for visible emissions (fugitive and stack emissions)

2. Additional Terms and Conditions**2.a** None**II. Operational Restrictions**

1. The maximum annual operating hours for this emissions unit shall not exceed 8,250 hours per year, based upon a rolling, 12-month summation of the operating hours. The permittee has existing operation records and therefore does not need to be limited to first year monthly operating hours amounts.
2. The pressure drop across the dust collectors shall be maintained within the normal operating range while the emissions unit is in operation.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the operating hours for each month;
 - b. the PM/PM-10 emissions in tons for each month;
 - c. the rolling, 12-month summation of the operating hours; and
 - d. the rolling, 12-month summation of PM/PM-10 emissions in tons.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the dust collectors 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 dust collectors on a daily basis.
3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;

- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify:
 - a. all exceedances of the rolling, 12-month operating hours limitation; and
 - b. all exceedances of the rolling, 12-month PM/PM-10 emissions limitations.
2. The permittee shall submit pressure drop quarterly deviation (excursion) reports that identify that all periods of time during which the pressure drop across the dust collectors did not comply with the allowable range specified above.
3. The quarterly deviation reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).
4. The permittee shall also submit annual reports which specify the total PM/PM-10 emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
5. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined normal pressure drop range, in inches of water, for each dust collector.
6. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):

Issued

Emissions Unit ID: P902

- a. Emission Limitation:
1% opacity for visible emissions (fugitive and stack emissions)

Applicable compliance method:

If required, compliance shall be determined in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).

- b. Emissions Limitations:

0.30 lb/hr of PM/PM-10 (Combined Stack Emissions).

1.23 tons per year of PM/PM -10, based upon a rolling, 12-month summation.

0.20 lb/hr PM/PM-10 (Upper Surge Bin #1 Dust Collector Stack).

0.10 lb/hr PM/PM-10 (Filler Heater #1 Dust Collector Stack).

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

For PM, Methods 1 thru 4 and 5A of 40 CFR Part 60, Appendix A.

For PM-10, Methods 1 thru 4 and 201 of 40 CFR Part 51, Appendix M.

Compliance with tons per year limitation based upon a rolling 12-month summation of the monthly emissions can be demonstrated by multiplying the maximum hourly limitation by 8,250 (annual hour of operation limitation) and divide by 2000 to convert the results to tons per year.

- c. Operational Limitation:
8,250 hours per year, based upon a rolling, 12-month summation of the operating hours.

Applicable Compliance Method:

Record keeping requirements in term A.III.1.

VI. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.

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> |
|--|--------------------------------------|--|
| P902 - Mineral Filler Handling System #1 - Filler Upper Surge Bin #1, Filler Lower Surge Bin #1, and Filler Heater #1 Controlled with Dust Collectors (Serves 4-Wide Roofing Line) | None | None |

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

106

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: P902

VI. Miscellaneous Requirements

None

Issued

Emissions Unit ID: P906

| | <p style="text-align: center;"><u>Applicable Emissions Limitations/Control Measures</u></p> | |
|--------------------------------------|--|--|
| <p>OAC rule 3745-31-05(C)</p> | <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08, 3745-31- (13) thru (20), 3745-31-05(C), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL.</p> | <p>Visible particulate emissions shall not exceed 10% opacity as a 3-minute average (fugitive emissions).</p> |
| | <p>Particulate matter (PM) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) shall not exceed 2.60 lbs/hr.</p> | <p>The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3) and 40 CFR Part 60, Subpart UU.</p> <p>The coater shall be adequately enclosed and vented to a a fiber bed filter.</p> <p>The tons per rolling 12-month period shall not exceed:</p> |
| <p>40 CFR Part 60, Subpart UU</p> | <p>Hydrogen sulfide (H₂S) emissions shall not exceed 0.18 lb/hr.</p> <p>Volatile organic compound (VOC) emissions shall not exceed 4.62 lbs/hr.</p> <p>Carbon monoxide (CO) emissions shall not exceed 5.51 lbs/hr.</p> <p>Sulfur dioxide (SO₂) shall not exceed 0.17 lb/hr SO₂.</p> | <p>VOC - 14.75 CO - 17.59 SO₂ - 0.62</p> <p>The maximum throughput and production on the laminated (3-wide) roofing line shall not exceed 96,911.2 tons of asphalt throughput and 492,080.4 tons of shingle production based on a rolling 12-month summation.</p> <p>The tons per rolling 12-month period shall not exceed:</p> |
| | <p>The hourly emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.</p> <p>The control efficiency shall not be less than 99% for PM/PM-10 and H₂S.</p> <p>Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions).</p> | <p>8.29 tpy PM/PM-10 0.63 tpy H₂S.</p> <p>For saturator: 0.04 kilogram of particulates per megagram of asphalt shingle. 20% opacity for the exhaust gases</p> <p>No visible emissions from the saturator capture system for more than 20 percent of any period of consecutive valid</p> |
| <p>40 CFR Part 63, Subpart LLLLL</p> | | |

observations totaling 60 minutes.

Limit total particulate emissions from the coater, coating mixer, sealant applicator, and adhesive applicator on the 3-wide roofing line to 0.04 kilograms emissions per megagram (kg/Mg) (0.08 pounds per ton, lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced.

The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

1. The maximum throughput and production on the laminated (3-wide) roofing line shall not exceed 96,911.2 tons of asphalt throughput and 492,080.4 tons of shingle production based on a rolling 12-month summation. The permittee has existing operation records and therefore does not need to be limited to the first year monthly operating hours amounts.
2. The pressure drop across the fiber bed filter shall be maintained within the normal operating range while the emissions unit is in operation.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emission unit.
 - a. the asphalt throughput and shingle production rates in tons for each month;
 - b. the PM/PM-10, H₂S, SO₂, CO, and VOC emissions for each month;

Issued

Emissions Unit ID: P906

- c. the rolling, 12-month summation of the asphalt throughput and shingle production rates in tons; and
 - d. the rolling, 12-month summation of PM/PM-10, H₂S, SO₂, CO, and VOC emissions in tons.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the fiber bed filter 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 fiber bed filter on a daily basis.
3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify:
 - a. all exceedances of the rolling, 12-month asphalt throughput and shingle production limitations; and
 - b. all exceedances of the rolling, 12-month PM/PM-10, H₂S, SO₂, CO, and VOC emissions limitations.
2. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the fiber bed filter did not comply with the allowable range specified above.
3. The quarterly deviation reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).
4. The permittee shall also submit annual reports which specify the total PM/PM-10, H₂S, SO₂, CO, and VOC emissions from this emissions unit for the previous calendar year. These reports shall

Issued: 6/14/2004

be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

5. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined normal pressure drop range, in inches of water, for the fiber bed filter.
6. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:
2. The emission testing shall be conducted within 6 months after issuance of the permit.
3. The emission testing shall be conducted to demonstrate compliance with the stack particulate emission limitation.
4. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1 thru 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
5. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, 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).

Issued

Emissions Unit ID: P906

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.

6. 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:

Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions).

Exhaust gases shall not exceed 20% opacity.

Applicable compliance method:

If required, compliance shall be determined in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).

b. Emissions Limitations:

Visible particulate emissions shall not exceed 10% opacity as a 3-minute average (fugitive emissions).

No visible emissions from the saturator capture system for more than 20 percent of any period of consecutive valid observations totaling 60 minutes.

Applicable compliance methods:

If required, OAC rule 3745-17-03(B)(3)

c. Emissions Limitations:

2.60 lbs/hr of PM/PM-10

8.29 tons per year of PM/PM-10 based upon a rolling, 12-month summation

0.04 kilogram of particulates per megagram of asphalt shingle

Applicable Compliance Methods:

Compliance of the lbs/hr and kilogram of particulates per megagram of asphalt shingle shall be determined using Methods 1 thru 5 of 40 CFR Part 60, Appendix A as specified in terms A.V.1 thru 5.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations.

114

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: P906

d. Emissions Limitations:

0.17 lb/hr of SO₂

0.62 ton per year of SO₂, based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based upon a rolling, 12-month summation of the monthly throughput/production .

e. Emissions Limitations:

5.51 lbs/hr of CO

17.59 tons per year of CO based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 10 or 10B of 40 CFR Part 60, Appendix A.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based upon a rolling, 12-month summation of the monthly throughput/production .

f. Emissions Limitations:

4.62 lbs/hr of VOC

14.75 tons per year of VOC based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based upon a rolling, 12-month summation of the monthly throughput/production.

g. Emissions Limitations:

0.18 lb/hr H₂S

0.63 ton per year of H₂S based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based upon a rolling, 12-month summation of the monthly throughput/production..

h. Operational Limitation:

The maximum throughput and production on the laminated (3-wide) roofing line shall not exceed 96,911.2 tons of asphalt throughput and 492,080 tons of shingle production based on a rolling 12-month summation.

Applicable Compliance Method:

Record keeping requirements in term A.III.1.

VI. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.

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> |
|--|--------------------------------------|--|
| P906 - Asphalt Coater/Surge Tank #1 controlled with a baghouse (serves 3-Wide roofing line) - Modification | None | None |

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

| | <p style="text-align: center;"><u>Applicable Emissions Limitations/Control Measures</u></p> | |
|--------------------------------------|--|---|
| | <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08, 3745-31- (13) thru (20), 3745-31-05(C), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL.</p> | <p>Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions)</p> <p>Visible particulate emissions shall not exceed 10% opacity as a 3-minute average (fugitive emissions)</p> |
| <p>OAC rule 3745-31-05(C)</p> | <p>Particulate matter (PM) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) shall not exceed 3.70 lbs/hr.</p> | <p>The emission limitation specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3) and 40 CFR Part 60, Subpart UU.</p> <p>The coater shall be adequately enclosed and vented to a fiber bed filter.</p> |
| <p>40 CFR Part 60, Subpart UU</p> | <p>Hydrogen sulfide (H₂S) emissions shall not exceed 0.26 lb/hr.</p> | <p>The tons per rolling 12-month period shall not exceed:</p> |
| | <p>Volatile organic compound (VOC) emissions shall not exceed 6.59 lbs/hr.</p> | <p>VOC - 25.16 CO - 30.01 SO₂ - 1.00</p> |
| | <p>Carbon monoxide (CO) emissions shall not exceed 7.86 lbs/hr.</p> | <p>The maximum throughput and production on the non-laminated (4-wide) roofing line shall not exceed 165,325.1 tons of asphalt throughput and 797,115.0 tons of shingle production based on a rolling 12-month summation.</p> |
| | <p>Sulfur dioxide (SO₂) shall not exceed 0.25 lb/hr.</p> | |
| <p>40 CFR Part 63, Subpart LLLLL</p> | <p>The hourly emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.</p> | <p>The tons per rolling 12-month period shall not exceed:</p> |
| | <p>The control efficiency of the fiber bed filter shall not be less than 99% for PM/PM-10 and H₂S.</p> | <p>14.15 tpy PM/PM-10 1.03 tpy H₂S For saturator:</p> |

Issued

Emissions Unit ID: P908

0.04 kilogram of particulates per megagram of asphalt shingle.

20% opacity for the exhaust gases

No visible emissions from the saturator capture system for more than 20 percent of any period of consecutive valid observations totaling 60 minutes

Limit total particulate emissions from the coater, coating mixer, sealant applicator, and adhesive applicator on the 4-wide roofing line to 0.04 kilograms emissions per megagram (kg/Mg) (0.08 pounds per ton, lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced.

The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

1. The maximum throughput and production on the non-laminated (4-wide) roofing line shall not exceed 165,325.1 tons of asphalt throughput and 797,115.0 tons of shingle production based on a rolling 12-month summation. The permittee has existing operation records and therefore does not need to be limited to first year monthly operating hours amounts.
2. The pressure drop across the fiber bed filter shall be maintained within the normal operating range while the emissions unit is in operation.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emission unit:
 - a. the asphalt throughput and shingle production rates in tons for each month;
 - b. the PM/PM-10, H₂S, SO₂, CO, and VOC emissions in tons for each month;
 - c. the rolling, 12-month summation of the asphalt throughput and shingle production rates in tons ; and
 - d. the rolling, 12-month summation of PM/PM-10, H₂S, SO₂, CO, and VOC emissions in tons.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the fiber bed filter 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 fiber bed filter on a daily basis.
3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall quarterly submit deviation (excursion) reports which identify:
 - a. all exceedances of the rolling, 12-month asphalt throughput and shingle production limitations; and,

- b. all exceedances of the rolling, 12-month PM/PM-10, H₂S, SO₂, CO, and VOC emissions limitations.
2. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the fiber bed filter did not comply with the allowable range specified above.
3. The quarterly deviation reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).
4. The permittee shall also submit annual reports which specify the total PM/PM-10, H₂S, SO₂, CO, and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
5. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined normal pressure drop range, in inches of water, for the fiber bed filter.
6. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:
2. The emission testing shall be conducted within 6 months after issuance of the permit.
3. The emission testing shall be conducted to demonstrate compliance with the stack particulate emission limitation.
4. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1 thru 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

Issued

Emissions Unit ID: P908

5. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, 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.

6. 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:

Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions).

Exhaust gases shall not exceed 20% opacity from 40 CFR Part 60, Subpart UU.

Applicable compliance method:

If required, compliance shall be determined in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).

- b. Emissions Limitations:

Visible particulate emissions shall not exceed 10% opacity as a 3-minute average (fugitive

Issued

Emissions Unit ID: P908

emissions).

No visible emissions from the saturator capture system for more than 20 percent of any period of consecutive valid observations totaling 60 minutes

Applicable compliance methods:

If required, OAC rule 3745-17-03(B)(3)

c. Emissions Limitations:

3.70 lbs/hr of PM/PM-10

14.15 tons per year of PM/PM-10, based upon a rolling, 12-month summation.

0.04 kilogram of particulates per megagram of asphalt shingle

Applicable Compliance Methods:

Compliance of the lbs/hr and kilogram of particulates per megagram of asphalt shingle shall be determined using Methods 1 thru 5 of 40 CFR Part 60, Appendix A as specified in terms A.V.1 thru 5. Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations.

d. Emissions Limitations:

0.25 lb/hr of SO₂

1.03 ton per year of SO₂, based upon a rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based upon a rolling, 12-month summation of the monthly throughput/production.

e. Emissions Limitations:

7.86 lbs/hr of CO

30.01 tons per year of CO based upon a rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 10 or 10B of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based upon a rolling, 12-month summation of the monthly throughput/production.

f. Emissions Limitations:

6.59 lbs/hr of VOC

25.16 tons per year of VOC based upon a rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based upon a rolling, 12-month summation of the monthly throughput/production.

g. Emissions Limitations:

0.26 lb/hr of H₂S

1.03 ton per year of H₂S based upon a rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based upon a rolling, 12-month summation of the monthly throughput/production.

h. Operational Limitation:

The maximum throughput and production on the non-laminated (4-wide) roofing line shall not exceed 165,325.1 tons of asphalt throughput and 797,115.0 tons of shingle production based on a rolling 12-month summation.

Applicable Compliance Method:

Record keeping requirements in term A.III.1.

VI. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.
2. The terms and conditions of this Permit to Install shall supersede all applicable air pollution control requirements for this emissions unit contained in Permit to Install number 16-01622, as issued on June 2, 1997.

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> |
|--|--------------------------------------|--|
| P908 - Asphalt Coater/Surge Tank #2 controlled with a baghouse (serves 4-Wide roofing line) - Modification | None | None |

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

128

Owens Corning Medina Roofing Plant

PTI Application: 16-02347

Issued

Facility ID: 1652050040

Emissions Unit ID: P908

None

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> | |
|--|--------------------------------------|---|
| P910 - Cooling Section #2 (4-wide roofing line) - Modification | OAC rule 3745-31-05(A)(3) | OAC rule 3745-17-07(A) OAC rule 3745-17-07(B) OAC rule 3745-17-11 |
| | | OAC rule 3745-17-08(B) |
| | | OAC rule 3745-31- (13) thru (20) |
| | | OAC rule 3745-31-05(C) |

Applicable Emissions
Limitations/Control
Measures

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08, 3745-31-(13) thru (20), and 3745-31-05(C).

Particulate matter (PM) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 7.02 lbs/hr PM/PM-10.

Volatile organic compound (VOC) emissions shall not exceed 2.80 lbs/hr.

The hourly emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.

Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions)

Visible particulate emissions shall not exceed 10% opacity as a 3-minute average

(fugitive emissions)

The emission limitation specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3).

The permittee shall operate the existing hood to minimize particulate emissions and fugitive dust.

The tons per rolling 12-month period shall not exceed:

VOC - 11.06

The maximum throughput and production on the non-laminated (4-wide) roofing line shall not exceed 165,325.1 tons of asphalt throughput and 797,115.0 tons of shingle production based on a rolling 12-month summation.

The tons per rolling 12-month period shall not exceed :

27.69 tpy PM/PM-10

2. Additional Terms and Conditions**2.a** None**II. Operational Restrictions**

1. The maximum throughput and production on the non-laminated (4-wide) roofing line shall not exceed 165,325.1 tons of asphalt throughput and 797,115.0 tons of shingle production based on a rolling 12-month summation. The permittee has existing operation records and therefore does not need to be limited to first year monthly throughput and production amounts.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emission unit:
 - a. the asphalt throughput and shingle production rates in tons for each month;
 - b. the PM/PM-10 and VOC emissions in tons for each month;
 - c. the rolling, 12-month summation of the asphalt throughput and shingle production rates in tons operating; and,
 - d. the rolling, 12-month summation of PM/PM-10 and VOC emissions in tons.
2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

V. Reporting Requirements

Issued

Emissions Unit ID: P910

1. The permittee shall submit quarterly deviation (excursion) reports which identify:
 - a. all exceedances of the rolling, 12-month asphalt throughput and shingle production limitations; and,
 - b. all exceedances of the rolling, 12-month PM/PM-10 and VOC emissions limitations.
2. These quarterly deviation reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).
3. The permittee shall also submit annual reports which specify the total PM/PM-10 and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
4. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

a. Emission Limitation:

Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions).

Applicable compliance method:

If required, compliance shall be determined in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).

b. Emission Limitation:

Visible particulate emissions shall not exceed 10% opacity as a 3-minute average (fugitive emissions).

Applicable compliance method:

OAC rule 3745-17-03(B)(3)

c. Emissions Limitations:

7.02 lbs/hr PM/PM-10

27.69 tons per year of PM/PM-10 based upon a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

For PM, Methods 1 thru 4 and 5A of 40 CFR Part 60, Appendix A.

For PM-10, Methods 1 thru 4 and 201 of 40 CFR Part 51, Appendix M.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based upon a rolling, 12-month summation of the monthly throughput/production..

d. Emissions Limitations:

134

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: P910

2.80 lbs/hr of VOC

11.06 tons per year of VOC based upon a rolling, 12-month summation.

Applicable Compliance Methods:

If required, compliance shall be determined using the following methods:

Methods 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based upon a rolling, 12-month summation of the monthly throughput/production.

e. Operational Limitation:

The maximum throughput and production on the non-laminated (4-wide) roofing line shall not exceed 165,325.1 tons of asphalt throughput and 797,115.0 tons of shingle production based on a rolling 12-month summation.

Applicable Compliance Method:

Record keeping requirements in term A.III.1.

VI. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.
2. The terms and conditions of this Permit to Install shall supersede all applicable air pollution control requirements for this emissions unit contained in Permit to Install number 16-01622, as issued on June 2, 1997.

Issued

Emissions Unit ID: P910

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> |
|--|--------------------------------------|--|
| P910 - Cooling Section #2 (4-wide roofing line) - Modification | None | None |

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - 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> | OAC rule 3745-17-11 |
|--|--------------------------------------|----------------------------------|
| P911 - Cooling Section #1 (3-wide roofing line) - Modification | OAC rule 3745-31-05(A)(3) | OAC rule 3745-17-08(B) |
| | | OAC rule 3745-31- (13) thru (20) |
| | | OAC rule 3745-31-05(C) |
| | OAC rule 3745-17-07(A) | |
| | OAC rule 3745-17-07(B) | |

Applicable Emissions
Limitations/Control
Measures

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08, 3745-31-(13) thru (20), and 3745-31-05(C).

Particulate matter (PM) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 4.81 lbs/hr PM/PM-10.

Volatile organic compound (VOC) emissions shall not exceed 1.92 lbs/hr.

The hourly emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limits.

Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions)

Visible particulate emissions shall not exceed 10% opacity as a 3-minute average (fugitive emissions)

The emissions limitations specified by these rules are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).

The permittee shall operate the existing hood to minimize particulate emissions and fugitive dust.

The tons per rolling 12-month period shall not exceed:

VOC - 6.83

The maximum throughput and production on the laminated (3-wide) roofing line shall not exceed 96,911.2 tons of asphalt throughput and 492,080.4 tons of shingle production based on a rolling 12-month summation.

The tons per rolling 12-month period shall not exceed :

17.09 tpy PM/PM-10

2. Additional Terms and Conditions**2.a** None**II. Operational Restrictions**

1. The maximum throughput and production on the laminated (3-wide) roofing line shall not exceed 96,911.2 tons of asphalt throughput and 492,080.4 tons of shingle production based on a rolling 12-month summation. The permittee has existing operation records and therefore does not need to be limited to first year monthly **throughput and production** amounts.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emission unit:
 - a. the asphalt throughput and shingle production rates in tons for each month;
 - b. the PM/PM-10 and VOC emissions in tons for each month;
 - c. the rolling, 12-month summation of the asphalt throughput and shingle production rates in tons ; and
 - d. the rolling, 12-month summation of PM/PM-10 and VOC emissions in tons.
2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

V. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify:

Issued

Emissions Unit ID: P911

- a. all exceedances of the rolling, 12-month asphalt throughput and shingle production limitations; and
 - b. all exceedances of the rolling, 12-month PM/PM-10 and VOC emissions limitations.
2. These quarterly deviation reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).
 3. The permittee shall also submit annual reports which specify the total PM/PM-10 and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
 4. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:

Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions).

Applicable compliance method:

If required, compliance shall be determined in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).
 - b. Emission Limitation:

Visible particulate emissions shall not exceed 10% opacity as a 3-minute average (fugitive emissions).

Applicable compliance method:

OAC rule 3745-17-03(B)(3)

c. Emissions Limitations:

4.81 lb/hr of PM/PM-10

17.09 tons per year of PM/PM-10 based upon a rolling, 12-month summation.

Applicable Compliance Methods:

If required, compliance shall be determined using the following methods:

For PM, Methods 1 thru 4 and 5A of 40 CFR Part 60, Appendix A.

For PM-10, Methods 1 thru 4 and 201 of 40 CFR Part 51, Appendix M.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based upon a rolling, 12-month summation of the monthly throughput/production..

d. Emissions Limitations:

1.92 lbs/hr of VOC

6.83 tons per year of VOC based upon a rolling, 12-month summation.

Applicable Compliance Methods:

If required, compliance shall be determined using the following methods:

Methods 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based upon a rolling, 12-month summation of the monthly throughput/production..

e. Operational Limitation:

The maximum throughput and production on the laminated (3-wide) roofing line shall not exceed 96,911.2 tons of asphalt throughput and 492,080.4 tons of shingle production based on a rolling 12-month summation.

Applicable Compliance Method:

Record keeping requirements in term A.III.1.

VI. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.

Issued

Emissions Unit ID: P911

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> |
|--|--------------------------------------|--|
| P911 - Cooling Section #1 (3-wide roofing line) - Modification | None | None |

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

| | <p style="text-align: center;"><u>Applicable Emissions Limitations/Control Measures</u></p> | |
|--------------------------------------|---|---|
| | <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08(B), 3745-31- (13) thru (20), 3745-31-05(C), and 40 CFR Part 63, Subpart LLLLL.</p> | <p>The emission limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3) and 40 CFR Part 60, Subpart UU.</p> <p>The filler mixer shall be adequately enclosed and vented to a baghouse.</p> |
| <p>40 CFR Part 63, Subpart LLLLL</p> | <p>Particulate matter (PM) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 0.05 lbs/hr (stack emissions).</p> | <p>The tons per rolling 12-month period shall not exceed:</p> <p>VOC - 24.89 CO - 1.06</p> |
| | <p>Volatile organic compound (VOC) emissions shall not exceed 7.8 lbs/hr.</p> | <p>The maximum throughput and production on the laminated (3-wide) roofing line shall not exceed 96,911.2 tons of asphalt</p> |
| | <p>Carbon monoxide (CO) emissions shall not exceed 0.33 lb/hr.</p> | <p>throughput and 492,080.4 tons of shingle production based on a rolling 12-month summation.</p> |
| | <p>The hourly emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.</p> | <p>The tons per rolling 12-month period shall not exceed:</p> <p>0.20 tpy PM/PM-10.</p> |
| | <p>The control efficiency of the baghouse shall not be less than 99% for PM/PM-10.</p> | <p>Limit total particulate emissions from the coater, coating mixer, sealant applicator, and adhesive applicator on the 3-wide roofing line to 0.04 kilogram of particulate per megagram (kg/Mg) (0.8</p> |
| | <p>Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions).</p> | <p>lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced</p> |
| | <p>Visible particulate emissions shall not exceed 10% opacity as a 3-minute average (fugitive emissions).</p> | <p>The compliance date for this rule is May 1, 2006.</p> |

Issued

Emissions Unit ID: P917

2. Additional Terms and Conditions**2.a** None**II. Operational Restrictions**

1. The maximum throughput and production on the laminated (3-wide) roofing line shall not exceed 96,911.2 tons of asphalt throughput and 492,080.4 tons of shingle production based on a rolling 12-month summation. The permittee has existing operation records and therefore does not need to be limited to first year monthly throughput and production amounts.
2. The pressure drop across the baghouse shall be maintained within the normal established operating range while the emissions unit is in operation.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emission unit:
 - a. the asphalt throughput and shingle production rates in tons for each month;
 - b. the PM/PM-10, CO and VOC emissions in tons for each month;
 - c. the rolling, 12-month summation of the asphalt throughput and shingle production rates in tons ; and,
 - d. the rolling, 12-month summation of PM/PM-10, CO and VOC emissions in tons.
2. 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 daily basis.
3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal

- emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify:
 - a. all exceedances of the rolling, 12-month asphalt throughput and shingle production limitations; and,
 - b. all exceedances of the rolling, 12-month PM/PM-10, CO and VOC emissions limitations.
2. The permittee shall submit quarterly 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.
3. The quarterly deviation reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).
4. The permittee shall also submit annual reports which specify the total PM/PM-10, VOC, and CO emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
5. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined normal pressure drop range, in inches of water, for the baghouse.
6. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions).

Applicable compliance method:

If required, compliance shall be determined in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New

Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).

b. Emission Limitation:

Visible particulate emissions shall not exceed 10% opacity as a 3-minute average (fugitive emissions).

Applicable compliance method:

If required, OAC rule 3745-17-03(B)(3)

c. Emissions Limitations:

0.05 lb/hr of PM/PM-10 (stack emissions)

0.20 ton per year of PM/PM-10 based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

For PM, Methods 1 thru 4 and 5A of 40 CFR Part 60, Appendix A.

For PM-10, Methods 1 thru 4 and 201 of 40 CFR Part 51, Appendix M.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based upon a rolling, 12-month summation of the monthly throughput/production..

d. Emissions Limitations:

0.33 lb/hr of CO

1.06 tons per year of CO based upon a rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

For CO, Methods 1 thru 4 and 10 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based upon a rolling, 12-month summation of the monthly throughput/production.

e. Emissions Limitations:

7.8 lbs/hr of VOC

24.89 tons per year of VOC, based upon a rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

For VOC, Methods 1 thru 4 and 18 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based upon a rolling, 12-month summation of the monthly throughput/production..

f. Operational Limitation:

The maximum throughput and production on the laminated (3-wide) roofing line shall not exceed 96,911.2 tons of asphalt throughput and 492,080.4 tons of shingle production based on a rolling 12-month summation.

Applicable Compliance Method:

Record keeping requirements in term A.III.1.

VI. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.

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> |
|--|--------------------------------------|--|
| P917 - Asphalt Filler Mixer #1 controlled with a baghouse (Serves 3-Wide Roofing Line) | None | None |

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

152

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: P917

None

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> |
|---|--------------------------------------|
| T007 - Oxidized Asphalt Storage Tank #50 - 60,000 gallon fixed roof storage tank controlled by a JZ thermal incinerator | OAC rule 3745-31-05(A)(3) |

Emissions Unit ID: T007

Applicable Emissions Limitations/Control Measures

40 CFR Part 60, Subpart Kb

40 CFR Part 60, Subpart UU

40 CFR Part 63, Subpart LLLLL

The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-09(L), 3745-31- (13) thru (20), 40 CFR Part 60, Subpart Kb, and Subpart UU, and 40 CFR Part 63, Subpart LLLLL.

Particulate matter (PM) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 0.01 lb/hr and 0.06 ton per year.

Sulfur dioxide (SO₂) emissions shall not exceed 0.21 lb/hr.

Carbon monoxide (CO) emissions shall not exceed 0.02 lb/hr.

Volatile organic compound (VOC) emissions shall not exceed 0.05 lb/hr.

Hydrogen sulfide (H₂S) emissions shall not exceed 0.006 lb/hr and 0.03 ton per year.

OAC rule 3745-17-07(A)

OAC rule 3745-17-11

The hourly and annual emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly or annual records are required to demonstrate compliance with these limitations.

OAC rule 3745-21-09(L)

OAC rules 3745-3745-31- (13) thru (20)

The overall control efficiency (including capture and control) shall not be less than 95% for PM/PM-10, CO, VOC and H₂S.

PM emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029,

T031 - T033, T036, and T037 shall not exceed 0.15 pound per hour and 0.64 ton per year, as a rolling, 12-month summation.

NO_x emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 1.47 pounds per hour and 6.43 tons per year, as a rolling, 12-month summation.

SO₂ emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 3.13 pounds per hour and 13.69 tons per year, as a rolling, 12-month summation.

CO emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not

exceed 0.84 pound per hour and 3.68 tons per year, as a rolling, 12-month summation.

OC emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.06 pound per hour and 0.24 ton per year, as a rolling, 12-month summation.

The emissions limitations specified by these rule are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL.

See A.II.a below.

The tons per rolling 12-month period shall not exceed:

- CO - 0.07
- VOC - 0.21
- SO₂ - 0.94.

The overall control efficiency (including capture and control) shall not be less than 95% for CO and VOC.

See A.I.2.a below.

Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period

in any 24-hour period when the transfer lines are being blown for clearing.

Exempt per 40 CFR 63.8681(c) since subject to 40 CFR Part 60, Subpart Kb.

2. Additional Terms and Conditions

- 2.a** The permittee shall install a closed vent system and control device meeting the following specifications:
- i. the closed vent system shall be designed to collect all VOC vapors and gases discharged from the storage vessel and operated with no detectable emissions as specified by an instrument reading of less than 500 ppm above background and visual inspections as determined in paragraph 60.485(b); and
 - ii. the control device shall be designed and operated to reduce inlet VOC emissions by 95% or greater.

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute, unless such tank is designed or equipped in accordance with the requirements of paragraph (L)(1) or OAC rule 3745-21-09.
2. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
3. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established operating range while the emissions unit is in operation.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall keep copies of all records required by this section, except for the record required section A.III.2, for at least 2 years. The records required by section A.III.2 will be kept for the life of the source.
2. The permittee shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.
3. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the fume incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor

Issued

Emissions Unit ID: T007

and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

4. The permittee shall collect and record the following information for each day:
 - a. all 3-hour blocks of time during which the average combustion temperature within the fume incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and
 - b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

5. The permittee shall install, operate and maintain a continuous monitor and recorder which measures the static pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. Exceedance of the normal operating static pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.
6. The permittee shall maintain monthly records which show the date(s) and time(s) when the vacuum manifold static pressure falls below normal operating levels. These records shall be kept on site and be made available to the Director, or any authorized representative of the Director, for review during normal business hours.
7. The permittee shall maintain records of the following:
 - a. the types of petroleum liquids stored in the tank;
 - b. the period of storage; and
 - c. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid.
8. The permittee shall maintain monthly records of the following information for this emission unit:
 - a. the CO, VOC, and SO₂ emissions in tons from both the tank and products of combustion of the incinerator for each month; and
 - b. the rolling, 12-month summation of CO, VOC, and SO₂ emissions in tons from both the tank and products of combustion of the incinerator.
9. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal

- emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the fume incinerator does not comply with the temperature limitation specified in term A.II.1. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any temperature variations identified.
2. The permittee shall submit quarterly deviation (excursion) reports which identify all times during which the static pressure in the vacuum manifold exceeded the normal operating range. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any exceedances identified.
3. The permittee shall submit quarterly deviation (excursion) reports which identify:
 - a. all exceedances of the rolling, 12-month CO, VOC, and SO₂ emissions limitations from both the tank and products of combustion of the incinerator.
4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements as specified in Part I - General Term and Condition A.1.c of this permit.
5. If the permittee places, stores, or holds any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute and such tank does not comply with OAC rule 3745-21-09(L)(1), the permittee shall so notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence.
6. After installing the control equipment required in section A.I.2.a, the permittee shall submit a report to the Administrator that certifies that the control equipment meets the specifications of paragraph 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). This report shall be an attachment to the notification required by paragraph 60.7(a)(3).
7. The permittee shall also submit annual reports which specify the total SO₂, CO, and VOC emissions from this emission unit for the previous calendar year. These reports shall be submitted by April 15th of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
8. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.

9. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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:

Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Applicable compliance method:

If required, compliance shall be determined in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).

- b. Emissions Limitations:

0.01 lb/hr of PM/PM-10
0.06 ton per year of PM/PM-10

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 5 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured by compliance with the lb/hr limitation.

Issued

Emissions Unit ID: T007

c. Emissions Limitations:

0.21 lb/hr of SO₂0.94 ton per year of SO₂, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured by compliance with the lb/hr limitation based upon a rolling, 12-month summation.

d. Emission Limitation:

0.05 lb/hr of VOC

0.21 ton per year of VOC, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured by compliance thru record keeping requirements in A.III

e. Emissions Limitations:

0.006 lb/hr of H₂S0.03 ton per year of H₂S

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation by compliance with the lb/hr limitation.

f. Emissions Limitations:

0.02 lb/hr of CO

0.07 ton per year of CO

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 10 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation thru record keeping requirements in A.III.

g. Emissions Limitations:

0.15 lb/hr of PM (products of combustion from incinerator)

0.64 ton per year of PM based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to ton per year.

h. Emission Limitations:

0.84 lb/hr of CO (products of combustion from incinerator)

3.68 tons per year of CO based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

i. Emission Limitation:

3.13 lbs/hr of SO₂ (products of combustion from incinerator)
13.69 tons per year of SO₂ based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

j. Emission Limitation:

0.06 lb/hr of VOC (products of combustion from incinerator)
0.24 ton per year of VOC based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to ton per year.

k. Emissions Limitations:

1.47 lbs/hr NO_x (products of combustion from incinerator)
6.43 tons per year of NO_x based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

VI. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.

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> |
|---|--------------------------------------|--|
| T007 - Oxidized Asphalt Storage Tank #50 - 60,000 gallon fixed roof storage tank controlled by a JZ thermal incinerator | None | None |

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

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> |
|---|--------------------------------------|
| T035 - Flux Asphalt Storage Tank #46 - 1,700,000 gallon fixed roof storage tank controlled by a PCC thermal incinerator | OAC rule 3745-31-05(A)(3) |

| | | <p style="text-align: center;"><u>Applicable Emissions Limitations/Control Measures</u></p> |
|--------------------------------------|-------------------------------|--|
| | 40 CFR Part 60, Subpart Kb | <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-09(L), 3745-31- (13) thru (20), and 40 CFR Part 60, Subpart Kb and Subpart UU, and 40 CFR Part 63, Subpart LLLLL.</p> |
| | 40 CFR Part 60, Subpart UU | |
| | 40 CFR Part 63, Subpart LLLLL | <p>Particulate matter (PM) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 0.03 lb/hr and 0.12 ton per year.</p> |
| | | <p>Sulfur dioxide (SO₂) emissions shall not exceed 0.09 lb/hr.</p> |
| | | <p>Carbon monoxide (CO) emissions shall not exceed 0.002 lb/hr.</p> |
| | | <p>Volatile organic compound (VOC) emissions shall not exceed 0.10 lb/hr.</p> |
| OAC rule 3745-17-07(A) | | <p>Hydrogen sulfide (H₂S) emissions shall not exceed 0.002 lb/hr and 0.01 ton per year.</p> |
| OAC rule 3745-17-11 | | |
| OAC rule 3745-21-09(L) | | <p>The hourly and annual emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly or annual records are required to demonstrate compliance with these limitations.</p> |
| OAC rule 3745-3745-31-(13) thru (20) | | |
| | | <p>The overall control efficiency (including capture and control) shall not be less than 95% for PM/PM-10 and H₂S.</p> |

Issued: 6/14/2004

PM emissions from the fossil fuel combustion (natural gas and fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 0.17 pound per hour and 0.76 ton per year, as a rolling, 12-month summation.

NOx emissions from the fossil fuel combustion (natural gas and fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 1.72 pounds per hour and 7.56 tons per year, as a rolling, 12-month summation.

SO₂ emissions from the fossil fuel combustion (natural gas and fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 3.68 pounds per hour and 16.11 tons per year, as a rolling, 12-month summation.

CO emissions from the fossil fuel combustion (natural gas and fuel oil) in the PCC incinerator

controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 0.99 pound per hour and 4.33 tons per year, as a rolling, 12-month summation.

OC emissions from the fossil fuel combustion (natural gas and fuel oil) in the PCC incinerator controlling J005, P006 - P007, T027, T030, and T035 shall not exceed 0.06 pound per hour and 0.28 ton per year, as a rolling, 12-month summation.

The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL.

See A.II.a below.

The tons per rolling 12-month period shall not exceed:

- CO - 0.01
- VOC - 0.44
- SO₂ - 0.37.

The overall control efficiency (including capture and control) shall not be less than 95% for CO and VOC.

Exempt,
See A.III.1 and A.III.2 below.

Visible particulate emissions to the

ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Visible particulate emissions to the ambient air shall not exceed 0% opacity for exhaust gases.

The compliance date for this rule is May 1, 2006.

Issued

Emissions Unit ID: T035

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute, unless such tank

is designed or equipped in accordance with the requirements of paragraph (L)(1) or OAC rule 3745-21-09.

2. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent test that demonstrated the emissions unit was in compliance.
3. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established operating range while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall keep copies of all records required by this section, except for the record required section A.III.2, for at least 2 years. The record required by section A.III.2 will be kept for the life of the source.
2. The permittee shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.
3. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the fume incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
4. The permittee shall collect and record the following information for each day:
 - a. all 3-hour blocks of time during which the average combustion temperature within the fume incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and
 - b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
5. The permittee shall install, operate and maintain a continuous monitor and recorder which measures the static pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary

172

Owens Corning Medina Roofing Plant

PTI Application: 16-02347

Issued

Facility ID: 1652050040

Emissions Unit ID: T035

by the permittee. Exceedance of the normal operating static pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.

6. The permittee shall maintain monthly records which show the date(s) and time(s) when the vacuum manifold static pressure falls below normal operating levels. These records shall be kept on site and be made available to the Director, or any authorized representative of the Director, for review during normal business hours.
7. The permittee shall maintain records of the following:
 - a. the types of petroleum liquids stored in the tank; and
 - b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 0.508 pounds per square inch absolute (3.5 kPa).
8. The permittee shall maintain monthly records of the following information for this emission unit:
 - a. the CO, VOC, and SO₂ emissions in tons for each month from both the tank and the products of combustion of the incinerator; and
 - b. the rolling, 12-month summation of CO, VOC, and SO₂ emissions in tons from both the tank and the products of combustion of the incinerator.
9. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the fume incinerator does not comply with the temperature limitation specified in term A.II.1. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any

temperature variations identified.

2. The permittee shall submit quarterly deviation (excursion) reports which identify all times during which the static pressure in the vacuum manifold exceeded the normal operating range. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any exceedances identified.
3. The permittee shall submit quarterly deviation (excursion) reports which identify:
 - a. all exceedances of the rolling, 12-month CO, VOC, and SO₂ emissions limitations from both the tank and the products of combustion of the incinerator.
4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements as specified in Part I - General Term and Condition A.1.c of this permit.
5. If the permittee places, stores, or holds any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute and such tank does not comply with OAC rule 3745-21-09(L)(1), the permittee shall so notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence.
6. The permittee shall also submit annual reports which specify the total CO, VOC, and SO₂ emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
7. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.
8. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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:

Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Applicable compliance method:

If required, compliance shall be determined in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).

b. Emissions Limitations:

0.03 lb/hr of PM/PM-10
0.12 ton per year of PM/PM-10

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 5 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured by compliance with the lb/hr limitation.

c. Emissions Limitations:

0.09 lb/hr of SO₂
0.37 ton per year of SO₂, based upon a rolling 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured thru record keeping requirements in A.III .

d. Emissions Limitations:

0.10 lb/hr of VOC
0.44 ton per year of VOC, based upon a rolling 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured thru record keeping requirements in A.III .

e. Emissions Limitations:

0.002 lb/hr of H₂S
0.01 ton per year of H₂S

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured by compliance with the lb/hr limitation.

f. Emission Limitation:

0.17 lb/hr of PM (products of combustion from incinerator)
0.76 ton per year of PM, based upon a rolling 12-month summation.

Applicable Compliance Method:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation , based upon a rolling 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to ton per year.

g. Emission Limitation:

0.99 lb/hr of CO (products of combustion from incinerator)
4.33 tons per year of CO, based upon a rolling 12-month summation.

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation, based upon a rolling 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

h. Emissions Limitations:

3.68 lb/hr of SO₂ (products of combustion from incinerator)
16.11 tons per year of SO₂, based upon a rolling 12-month summation.

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation, based upon a rolling 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

i. Emissions Limitations:

0.06 lb/hr of VOC (products of combustion from incinerator)
0.28 ton per year of VOC, based upon a rolling 12-month summation.

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation, based upon a rolling 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to ton per year.

j. Emissions Limitations:

1.73 lbs/hr of NO_x (products of combustion from incinerator)
7.56 tons per year of NO_x, based upon a rolling 12-month summation.

Applicable Compliance Method:

Issued

Emissions Unit ID: T035

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation, based upon a rolling 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

k. Emission Limitations:

0.02 lb/hr CO

0.01 ton per year of CO based upon a rolling 12-month summation.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 10 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured thru record keeping requirements in

A.III .

VI. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.

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> |
|---|--------------------------------------|--|
| T035 - Flux Asphalt Storage Tank #46 - 1,700,000 gallon fixed roof storage tank controlled by a PCC thermal incinerator | None | None |

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

181
Owens
PTI A₁
Issued: 6/14/2004

Emissions Unit ID: T035

None

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> |
|---|--------------------------------------|
| T036 - Oxidized Asphalt Storage Tank #69 - 30,000 gallon fixed roof storage tank controlled by a JZ thermal incinerator | OAC rule 3745-31-05(A)(3) |

Emissions Unit ID: T036

Applicable Emissions Limitations/Control Measures

40 CFR Part 60, Subpart Kb

40 CFR Part 60, Subpart UU

40 CFR Part 63, Subpart LLLLL

The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-09(L) and 3745-31- (13) thru (20), and 40 CFR Part 60, Subpart Kb and Subpart UU, and 40 CFR Part 63, Subpart LLLLL.

Particulate matter (PM) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 0.01 lb/hr and 0.06 ton per year.

Sulfur dioxide (SO₂) emissions shall not exceed 0.21 lb/hr.

Carbon monoxide (CO) emissions shall not exceed 0.02 lb/hr.

Volatile organic compound (VOC) emissions shall not exceed 0.05 lb/hr.

Hydrogen sulfide (H₂S) emissions shall not exceed 0.006 lb/hr and 0.03 ton per year.

OAC rule 3745-17-07(A)
OAC rule 3745-17-11

The hourly and annual emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly or annual records are required to demonstrate compliance with these limitations.

OAC rule 3745-21-09(L)(2)

The overall control efficiency (including capture and control) shall not be less than 95% for PM/PM-10 and H₂S.

OAC rule 3745-3745-31- (13) thru (20)

PM emissions from the fossil fuels combustion (natural gas and fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026,

Issued: 6/14/2004

T029, T031 - T033, T036, and T037 shall not exceed 0.15 pound per hour and 0.64 ton per year, as a rolling, 12-month summation.

NO_x emissions from the fossil fuels combustion (natural gas and fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 1.47 pounds per hour and 6.43 tons per year, as a rolling, 12-month summation.

SO₂ emissions from the fossil fuels combustion (natural gas and fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 3.13 pounds per hour and 13.69 tons per year, as a rolling, 12-month summation.

CO emissions from the fossil fuels combustion (natural gas and fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033,

T036, and T037 shall not exceed 0.84 pound per hour and 3.68 tons per year, as a rolling, 12-month summation.

OC emissions from the fossil fuels combustion (natural gas and fuel oil) in the JZ incinerator controlling P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.056 pound per hour and 0.24 ton per year, as a rolling, 12-month summation.

These emissions limitations specified in these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL.

Exempt,
See A.I.2.a below.

The tons per rolling 12-month period shall not exceed:

- CO - 0.07
- VOC - 0.21
- SO₂ - 0.94

The overall control efficiency (including capture and control) shall not be less than 95% for CO and VOC

Exempt,
See A.III.1 and A.III.2 below.

Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Visible emissions to the ambient air shall not exceed 0% opacity for exhaust gases.

The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

- 2.a** In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 2.176 pounds per square inch absolute (15kPa), unless such tank complies with the requirements of 40 CFR Part 60, Subpart Kb.
2. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
3. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established operating range while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall keep copies of all records required by this section, except for the record required section A.III.2, for at least 2 years. The record required by section A.III.2 will be kept for the life of the source.
2. The permittee shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.
3. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the fume incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
4. The permittee shall collect and record the following information for each day:
 - a. all 3-hour blocks of time during which the average combustion temperature within the fume incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the

Issued

Emissions Unit ID: T036

most recent emission test that demonstrated the emissions unit was in compliance; and

- b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
5. The permittee shall install, operate and maintain a continuous monitor and recorder which measures the static pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with

the manufacturer's recommendations, with any modifications deemed necessary by the permittee. Exceedance of the normal operating static pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.

6. The permittee shall maintain monthly records which show the date(s) and time(s) when the vacuum manifold static pressure falls below normal operating levels. These records shall be kept on site and be made available to the Director, or any authorized representative of the Director, for review during normal business hours.
7. The permittee shall maintain records of the following:
 - a. the types of petroleum liquids stored in the tank; and
 - b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 2.176 pounds per square inch absolute (15 kPa) .
8. The permittee shall maintain monthly records of the following information for this emission unit:
 - a. the CO, VOC, and SO₂ emissions in tons for each month from both the tank and the products of combustion from the incinerator; and
 - b. the rolling, 12-month summation of CO, VOC, and SO₂ emissions in tons from both the tank and the products of combustion from the incinerator.
9. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

Issued

Emissions Unit ID: T036

1. The permittee shall submit quarterly deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the fume incinerator does not comply with the temperature limitation specified in term A.II.1. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any temperature variations identified.
2. The permittee shall submit quarterly deviation (excursion) reports which identify all times during which the static pressure in the vacuum manifold exceeded the normal operating range. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any exceedances identified.
3. The permittee shall submit quarterly deviation (excursion) reports which identify:
 - a. all exceedances of the rolling, 12-month CO, VOC, and SO₂ emissions limitations from both the tank and the products of combustion from the incinerator.
4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements as specified in Part I - General Term and Condition A.1.c of this permit.
5. If the permittee places, stores, or holds any petroleum liquid with a true vapor pressure which is greater than 2.176 pounds per square inch absolute (15 kPa) and such tank does not comply with 40 CFR Part 60, Subpart Kb, the permittee shall so notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence.
6. The permittee shall also submit annual reports which specify the total CO, VOC, and SO₂ emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
7. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.
8. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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. Emissions Limitations:

189

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: T036

Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Applicable compliance method:

If required, compliance shall be determined in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).

b. Emissions Limitations:

0.01 lb/hr of PM/PM-10
0.06 ton per year of PM/PM-10

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 5 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured by compliance with the lb/hr limitation.

c. Emissions Limitations:

0.21 lb/hr of SO₂
0.94 ton per year of SO₂, based upon a rolling 12-month summation.

Applicable Compliance Methods:

If required, compliance shall be determined using the following methods:

Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured can be ensured thru record keeping requirements in A.III

d. Emissions Limitations:

0.05 lb/hr of VOC

191

Owens Corning Medina Roofing Plant

PTI Application: 16-02247

Issued

Facility ID: 1652050040

Emissions Unit ID: T036

0.21 ton/yr of VOC, based upon a rolling 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured thru record keeping requirements in A.III

e. Emissions Limitations:

0.006 lb/hr of H₂S

0.03 ton per year of H₂S

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A.

Compliance with tons per year limitation can be ensured by compliance with the lb/hr limitation.

f. Emissions Limitations:

0.15 lb/hr of PM (products of combustion from incinerator)

0.64 ton per year of PM, based upon a rolling 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation, based upon a rolling 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to ton per year.

193

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: T036

g. Emissions Limitations:

0.84 lb/hr of CO (products of combustion from incinerator)

3.68 tons per year of CO, based upon a rolling 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation, based upon a rolling 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

h. Emissions Limitations:

3.13 lbs/hr of SO₂ (products of combustion from incinerator)
13.69 tons per year of SO₂, based upon a rolling 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation, based upon a rolling 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

i. Emissions Limitations:

0.06 lb/hr of VOC (products of combustion from incinerator)
0.24 tpy VOC, based upon a rolling 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation, based upon a rolling 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

j. Emissions Limitations:

1.47 lb/hr of NO_x (products of combustion from incinerator)
6.43 tons per year of NO_x, based upon a rolling 12-month summation

Applicable Compliance Method:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation, based upon a rolling 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

k. Emission Limitations:

0.02 lb/hr CO

0.07 ton per year of CO, based upon a rolling 12-month summation

Applicable Compliance Method:

Compliance shall be determined using the following methods:

Methods 1 thru 4 and 10 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured thru record keeping requirements in A.III

VI. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.

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> |
|---|--------------------------------------|--|
| T036 - Flux Asphalt Storage Tank #69 - 30,000 gallon fixed roof storage tank controlled by a JZ thermal incinerator | None | None |

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

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> |
|---|--------------------------------------|
| T037 - Oxidized Asphalt Storage Tank #70 - 60,000 gallon fixed roof storage tank controlled by a JZ thermal incinerator | OAC rule 3745-31-05(A)(3) |

| | | <p style="text-align: center;"><u>Applicable Emissions Limitations/Control Measures</u></p> |
|---|-------------------------------|--|
| | 40 CFR Part 60, Subpart Kb | <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-09(L) and 3745-31- (13) thru (20) and 40 CFR Part 60, Subpart Kb and Subpart UU and 40 CFR Part 63, Subpart LLLLL.</p> |
| | 40 CFR Part 60, Subpart UU | <p>Particulate matter (PM) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 0.01 lb/hr and 0.06 ton per year.</p> |
| | 40 CFR Part 63, Subpart LLLLL | <p>Sulfur dioxide (SO₂) emissions shall not exceed 0.21 lb/hr.</p> |
| | | <p>Carbon monoxide (CO) emissions shall not exceed 0.02 lb/hr.</p> |
| | | <p>Volatile organic compound (VOC) emissions shall not exceed 0.05 lb/hr.</p> |
| | | <p>Hydrogen sulfide (H₂S) emissions shall not exceed 0.006 lb/hr and 0.03 ton per year.</p> |
| <p>OAC rule 3745-17-07(A) OAC rule 3745-17-11</p> | | <p>The hourly and annual emission limitations outlined are based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly or annual records are required to demonstrate compliance with these limitations.</p> |
| <p>OAC rule 3745-21-09(L)</p> | | <p>The overall control efficiency (including capture and control) shall not be less than 95% for PM/PM-10 and H₂S.</p> |
| <p>OAC rule 3745-3745-31- (13) thru (20)</p> | | |

Issued: 6/14/2004

PM emissions from the fossil fuel combustion (natural gas and fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.15 pound per hour and 0.64 ton per year, as a rolling, 12-month summation.

NO_x emissions from the fossil fuel combustion (natural gas and fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 1.47 pounds per hour and 6.43 tons per year, as a rolling, 12-month summation.

SO₂ emissions from the fossil fuel combustion (natural gas and fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 3.13 pounds per hour and 13.69 tons per year, as a rolling, 12-month summation.

CO emissions from the fossil fuel combustion (natural gas and fuel oil) in the JZ

incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.84 pound per hour and 3.68 tons per year, as a rolling, 12-month summation.

OC emissions from the fossil fuel combustion (natural gas and fuel oil) in the JZ incinerator controlling P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.06 pound per hour and 0.24 ton per year, as a rolling, 12-month summation.

These emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL.

See A.II.a below.

The tons per rolling 12-month period shall not exceed:

- CO - 0.07
- VOC - 0.21
- SO₂ - 0.94.

The overall control efficiency (including capture and control) shall not be less than 95% for CO and VOC.

See A.I.2.a below.

Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Exempt per 40 CFR 63.8681(c) since subject to 40 CFR Part 60, Subpart Kb.

Issued

Emissions Unit ID: T037

2. Additional Terms and Conditions

- 2.a** The permittee shall install a closed vent system and control device meeting the following specifications:
- i. the closed vent system shall be designed to collect all VOC vapors and gases discharged from the storage vessel and operated with no detectable emissions as specified by an instrument reading of less than 500 ppm above background and visual inspections as determined in paragraph 60.485(b); and
 - ii. the control device shall be designed and operated to reduce inlet VOC emissions by 95% or greater.

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute, unless such tank is designed or equipped in accordance with the requirements of paragraph (L)(1) or OAC rule 3745-21-09.
2. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
3. The operating range for the vacuum manifold static pressure shall be continuously maintained within the established normal operating range while the emissions unit is in operation.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall keep copies of all records required by this section, except for the record required section A.III.2, for at least 2 years. The record required by section A.III.2 will be kept for the life of the source.
2. The permittee shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.
3. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the fume incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
4. The permittee shall collect and record the following information for each day:

201

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: T037

- a. all 3-hour blocks of time during which the average combustion temperature within the fume incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and
- b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

Issued

Emissions Unit ID: T037

5. The permittee shall install, operate and maintain a continuous monitor and recorder which measures the static pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. Exceedance of the normal operating static pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.
6. The permittee shall maintain monthly records which show the date(s) and time(s) when the vacuum manifold static pressure falls below normal operating levels. These records shall be kept on site and be made available to the Director, or any authorized representative of the Director, for review during normal business hours.
7. The permittee shall maintain records of the following:
 - a. the types of petroleum liquids stored in the tank;
 - b. the period of storage; and
 - c. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid.
8. The permittee shall maintain monthly records of the following information for this emission unit:
 - a. the CO, VOC, and SO₂ emissions in tons for each month from both the tank and the productions of combustion from the incinerator; and
 - b. the rolling, 12-month summation of CO, VOC, and SO₂ emissions in tons from both the tank and the productions of combustion from the incinerator.
9. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the fume incinerator does not comply with the temperature limitation specified in term A.II.1. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any temperature variations identified.
2. The permittee shall submit quarterly deviation (excursion) reports which identify all times during which the static pressure in the vacuum manifold exceeded the normal operating range. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any exceedances identified.
3. The permittee shall submit quarterly deviation (excursion) reports which identify:
 - a. all exceedances of the rolling, 12-month CO, VOC, and SO₂ emissions limitations from both the tank and the productions of combustion from the incinerator.
4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements as specified in Part I - General Term and Condition A.1.c of this permit.
5. If the permittee places, stores, or holds any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute and such tank does not comply with OAC rule 3745-21-09(L)(1), the permittee shall so notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence.
6. After installing the control equipment required in section A.I.2.a, the permittee shall submit a report to the Administrator that certifies that the control equipment meets the specifications of paragraph 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). This report shall be an attachment to the notification required by paragraph 60.7(a)(3).
7. The permittee shall also submit annual reports which specify the total CO, VOC, and SO₂ emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
8. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.

Issued

Emissions Unit ID: T037

9. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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:

Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Applicable compliance method:

If required, compliance shall be determined in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, except as provided under OAC rule 3745-17-07(A)(1)(b).

- b. Emissions Limitations:

0.01 lb/hr of PM/PM-10
0.06 ton per year of PM/PM-10

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 5 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured by compliance with the lb/hr limitation.

- c. Emissions Limitations:

0.21 lb/hr of SO₂
0.94 ton per year of SO₂, based upon a rolling, 12-month summation

205

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: T037

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured can be ensured thru record keeping requirements in A.III.

d. Emissions Limitations:

0.05 lb/hr of VOC

0.21 ton per year of VOC, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured can be ensured thru record keeping requirements in A.III

e. Emissions Limitations:

0.006 lb/hr of H₂S

0.03 ton per year of H₂S

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured by compliance with the lb/hr limitation.

f. Emissions Limitations:

207

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: T037

0.02 lb/hr of CO

0.07 ton per year of CO, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 10 of 40 CFR Part 60, Appendix A.

Compliance with ton per year limitation can be ensured can be ensured thru record keeping requirements in A.III

g. Emissions Limitations:

0.15 lb/hr of PM (products of combustion from incinerator)
0.64 ton per year of PM based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to ton per year.

h. Emissions Limitations:

0.84 lb/hr of CO (products of combustion from incinerator)
3.68 tons per year of CO based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

i. Emissions Limitations:

3.13 lbs/hr of SO₂ (products of combustion from incinerator)

13.69 tons per year of SO₂ based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

j. Emissions Limitations:

0.06 lb/hr VOC (products of combustion from incinerator)
0.24 ton per year of VOC based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to ton per year.

k. Emissions Limitations:

1.47 lbs/hr of NO_x (products of combustion from incinerator)
6.43 tons per year of NO_x based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil. Compliance with the annual emission limitation based upon a rolling, 12-month summation shall be determined by multiplying the short term limitation by 8760 hours per year and dividing by 2000 to convert to tons per year.

VI. Miscellaneous Requirements

211

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: T037

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.

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> |
|---|--------------------------------------|--|
| T037 - Oxidized Asphalt Storage Tank #70 - 60,000 gallon fixed roof storage tank controlled by a JZ thermal incinerator | None | None |

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

213

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: T037

None

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> | |
|---|---------------------------------------|----------------------------|
| T038 - Mineral Spirits Storage Tank #68 - 20,000 gallon fixed roof storage tank controlled by a condenser | OAC rule 3745-31-05(A)(3) | 40 CFR Part 60, Subpart Kb |
| | OAC rule 3745-21-09(L)(2) | |
| | OAC rule 3745-3745-31- (13) thru (20) | |

Issued

Emissions Unit ID: T038

Applicable Emissions
Limitations/Control
Measures

The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-09(L), 3745-31- (13) thru (20), 3745-31-05(C), and 40 CFR Part 60, Subpart Kb.

Volatile organic compound (VOC) emissions shall not exceed 0.003 lb/hr.

The hourly emission limitation is based upon the emission unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with this limitation.

Exempt,
See A.I.2.a below.

The tons per rolling 12-month period shall not exceed:

VOC - 0.01

The overall control efficiency (including capture and control) shall not be less than 85% for VOC

Exempt,
See A.III.1 and A.III.2 below.

2. Additional Terms and Conditions

- 2.a** In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

1. The water temperature exiting the condenser shall be continuously maintained at a value of not greater than 87 degrees Fahrenheit at all times while the emissions unit is in operation.

The permittee is not required to operate the condenser during mineral spirit unloading when the ambient temperature is less than 45 degrees F.

2. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 2.176 pounds per square inch absolute (15 kPa), unless such tank complies with the requirements of 40 CFR Part 60, Subpart Kb.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall keep copies of all records required by this section, except for the record required section A.III.2, for at least 2 years. The record required by section A.III.2 will be kept for the life of the source.
2. The permittee shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.
3. The permittee shall properly install and maintain equipment to continuously monitor the water temperature exiting the condenser while the emissions unit is in operation. The temperature monitor shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals, with any modifications deemed necessary by the permittee..

The permittee shall collect and record the following information each day:

- a. the outlet water temperature, on a once/shift basis; and
 - b. a log or record of operating time for the capture (collection) system, control device, monitoring equipment, associated emissions unit and ambient temperature.
4. The permittee shall maintain records of the following:
 - a. the types of petroleum liquids stored in the tank; and

- b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 2.176 pounds per square inch absolute (15 kPa).

IV. Reporting Requirements

1. The permittee shall submit outlet water temperature and ambient temperature quarterly deviation (excursion) reports that identify all periods of time during which the water temperature exiting the condenser and ambient temperature did not comply with the temperature requirements specified above.
2. The quarterly deviation reports shall be submitted in accordance with the reporting requirements as specified in Part I - General Term and Condition A.1.c of this permit.
3. If the permittee places, stores, or holds any petroleum liquid with a true vapor pressure which is greater than 2.176 pounds per square inch absolute (15 kPa) and such tank does not comply with 40 CFR Part 60, Subpart Kb, the permittee shall so notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence.
4. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

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:
0.003 lb/hr of VOC
0.01 ton/yr VOC, based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

Methods 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Issued

Emissions Unit ID: T038

Compliance with ton per year limitation can be ensured can be ensured thru record keeping requirements in A.III.

VI. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A.I through A.V.

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> |
|---|--------------------------------------|--|
| T038 - Mineral Spirits Storage Tank #68 - 20,000 gallon fixed roof storage tank controlled by a condenser | None | None |

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

220

Owens

PTI A₁

Issued: 6/14/2004

Emissions Unit ID: T038

None