



State of Ohio Environmental Protection Agency

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Columbus, Ohio 43215

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P.O. Box 1049
Columbus, OH 43216-1049

5/13/2009

James Demuth
J AND D MINING INC
7340 WILLOWDALE AVE SE
MAGNOLIA, OH 44643

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 1576001809
Permit Number: P0104726
Permit Type: OAC Chapter 3745-31 Modification
County: Stark

Certified Mail

No	TOXIC REVIEW
No	PSD
Yes	SYNTHETIC MINOR
No	CEMS
No	MACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate ("PTIO") which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully.

Ohio EPA maintains a document entitled "Frequently Asked Questions about the PTIO". The document can be downloaded from the DAPC Web page, www.epa.state.oh.us/dapc, from the "Permits" link. This document contains additional information related to your permit, such as what activities are covered under the PTIO, who has enforcement authority over the permit and Ohio EPA's authorization to inspect your facility and records. Please contact the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469 if you need assistance.

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of \$70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

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

If you have any questions regarding this permit, please contact the Canton City Health Department. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page www.epa.state.oh.us/dapc.

Sincerely,

Michael W. Ahern
Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: Canton

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director



**State of Ohio Environmental Protection Agency
Division of Air Pollution Control**

FINAL

**Air Pollution Permit-to-Install and Operate
for
J AND D MINING INC**

Facility ID: 1576001809
Permit Number: P0104726
Permit Type: OAC Chapter 3745-31 Modification
Issued: 5/13/2009
Effective: 5/13/2009
Expiration: 5/13/2014



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Air Pollution Permit-to-Install and Operate
for
J AND D MINING INC

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Division of Air Pollution Control

Final Permit-to-Install and Operate
Permit Number: P0104726
Facility ID: 1576001809
Effective Date: 5/13/2009

Authorization

Facility ID: 1576001809
Application Number(s): A0037297
Permit Number: P0104726
Permit Description: FEPTIO for P901, a 300 ton/hr rotary drum asphalt plant that incorporates roofing shingles as RAP.
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$0.00
Issue Date: 5/13/2009
Effective Date: 5/13/2009
Expiration Date: 5/13/2014
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

J AND D MINING INC
7340 Willowdale Ave SE
Sandy Twp, OH 44643

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Canton City Health Department
420 Market Avenue
Canton, OH 44702-1544
(330)489-3385

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section 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 described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0104726

Facility ID: 1576001809

Effective Date: 5/13/2009

Authorization (continued)

Permit Number: P0104726

Permit Description: FEPTIO for P901, a 300 ton/hr rotary drum asphalt plant that incorporates roofing shingles as RAP.

Permits for the following emissions unit(s) or groups of emissions units are in this document as indicated below:

Emissions Unit ID:	P901
Company Equipment ID:	Asphalt plant
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



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Permit Number: P0104726

Facility ID: 1576001809

Effective Date: 5/13/2009

A. Standard Terms and Conditions



1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.



If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.



10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Canton City Health Department in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the



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change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



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B. Facility-Wide Terms and Conditions



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

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Facility ID: 1576001809

Effective Date: 5/13/2009

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) 1. b), c), d), e), and f).



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Final Permit-to-Install and Operate

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C. Emissions Unit Terms and Conditions



1. P901, Asphalt plant

Operations, Property and/or Equipment Description:

Emission Unit P901, a rotary drum type, 300 tons/hour asphalt plant to incorporate the use of roofing shingles as RAP.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. 1. b), c), d), e), and f).

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (A)(3)	<p>Visible particulate emissions from any stack associated with P901 shall not exceed 10% opacity, as a six-minute average.</p> <p>Visible particulate emissions from any fugitive dust emissions point associated with P901 shall not exceed 20% opacity, as a three minute average.</p> <p>The stack emissions shall not exceed the following when burning natural gas:</p> <p>The nitrogen oxide (NOx) emissions shall not exceed 5.63 lbs/hr.</p> <p>The carbon monoxide (CO) emissions shall not exceed 90 lbs/hr.</p> <p>The volatile organic compound (VOC) emissions shall not exceed 1.85 lbs/hr.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>The sulfur dioxide (SO₂) emissions shall not exceed 1.03 lbs/hr.</p> <p>The PM/PM₁₀ emissions shall not exceed 7.95 lbs/hr.</p> <p>The stack emissions shall not exceed the following when burning No. 2 fuel oil:</p> <p>The NO_x emissions shall not exceed 5.63 lbs/hr.</p> <p>The CO emissions shall not exceed 90 lbs/hr.</p> <p>The VOC emissions shall not exceed 1.85 lbs/hr.</p> <p>The SO₂ emissions shall not exceed 24.85 lbs/hr.</p> <p>The PM/PM₁₀ emissions shall not exceed 7.95 lbs/hr.</p> <p>Fugitive PM emissions from aggregate material handling shall not exceed 12 tons/yr.</p> <p>Fugitive PM₁₀ emissions from aggregate material handling shall not exceed 1.2 tons/yr.</p> <p>The requirements of OAC rule 3745-31-05 (A)(3) also include compliance with the requirements of 40 CFR Part 60 Subpart I and OAC rule 3745-35-07 (B). See sections b)(2)a. through b)(2)j. below.</p>
b.	OAC rule 3745-31-05(D)	<p>Burning Natural Gas:</p> <p>The NO_x emissions shall not exceed 3.75 tons/yr.</p> <p>The CO emissions shall not exceed 60 tons/yr.</p> <p>The VOC emissions shall not exceed 1.23 tons/yr.</p> <p>The SO₂ emissions shall not exceed 0.69 ton/yr.</p> <p>The PM/PM₁₀ emissions shall not exceed 8.19</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>tons/yr.</p> <p>Burning Fuel Oil No. 2:</p> <p>The NOx emissions shall not exceed 3.75 tons/yr.</p> <p>The CO emissions shall not exceed 60 tons/yr.</p> <p>The VOC emissions shall not exceed 1.23 tons/yr.</p> <p>The SO2 emissions shall not exceed 25.6 tons/yr.</p> <p>The TPY emissions limits are based upon a rolling, 12-month summation of the monthly emissions, and as established in the restricted potential to emit procedures of Part II, Section E using the federally enforceable production limitations and operating hours' limitations of Part II, Section B.</p> <p>The PM emissions shall not exceed 0.04 grain/dscf.</p>
c	40 CFR Part 60, Subpart I	The visible particulate emissions' limitation required by 40 CFR Part 60, Subpart I is less stringent, than the visible particulate emissions limitation established pursuant to OAC rule 3745-31-05 (A)(3).
d	OAC rule 3745-17-07 (A)(1) OAC rule 3745-17-11 (B) OAC rule 3745-18-06 (E)	The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3).

(2) Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05 (A)(3) shall be demonstrated by the emissions limitations, production limitations, operating hours' limitation and use of a baghouse.
- b. The permittee reserves the right to burn natural gas and #2 fuel oil in this emissions unit. No other fuel shall be burned in P901.
- c. No oil containing more than 0.5% by weight of sulfur shall be burned in this emissions unit.



- d. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
 - e. The permittee shall maintain a minimum height of 35 feet for the baghouse stack.
 - f. The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:
 - transfer points of material
 - aggregate conveyor screening
 - weight hopper loading
 - g. For each material handling operation that is not adequately enclosed, the below identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the abovementioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
 - h. The drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the cold feed bins and recycled material (RAP) bin.
 - i. The aggregate loaded into the storage bins shall have a moisture content sufficient to minimize or eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer.
 - j. Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.
 - k. The hourly emissions limitations outlined in term 1. b) are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limits.
- c) Operational Restrictions
- (1) To ensure the baghouse is operated according to the manufacturer's specifications and to maintain compliance with the allowable particulate emission rate, a pressure drop across the baghouse of not less than 2 nor greater than 8 inches of water shall be maintained at all times when this emissions unit is being operated.
 - (2) The maximum annual operating hours for this emissions unit shall not exceed 2,060 hours, based upon a rolling, 12-month summation of the operating hours.



- (3) The maximum annual asphalt production for this emissions unit shall not exceed 300,000 tons per year based upon a rolling, 12-month summation of the production rates.
- (4) The permittee may substitute reclaimed asphalt pavement (RAP) and/or asphalt shingles in amounts not to exceed 50 percent of all aggregate materials in the raw material feed mix.

The permittee shall only use virgin aggregate, asphalt shingles and reclaimed asphalt pavement (RAP) in the raw material feed mix. For the purposes of this permit, virgin aggregate shall be clean, uncontaminated, quarried material.

No asbestos containing asphalt shingles may be used as part of the feed mix. Verification that the shingles do not contain asbestos can either be done by actual testing of a representative sample of the shingles, or by verification from the shingle manufacturer that the shingles do not contain asbestos. Records shall be kept documenting the asbestos verification of any shingles used in the feed mix. These records shall be maintained following the Part I General Terms and Conditions Records Retention Requirements term.

d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall maintain monthly records of the following information:
 - a. the operating hours for each month; and
 - b. the rolling, 12-month summation of the operating hours.
- (2) The permittee shall maintain monthly records of the following information:
 - a. the tons of asphalt produced for each month; and
 - b. the rolling, 12-month summation of the asphalt production in tons.
- (3) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the fabric 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 fabric filter on a daily basis.
- (4) Except as otherwise provided in this section, for aggregate handling operations that are not adequately enclosed, the permittee shall perform daily inspections of such operation to determine if any visible particulate emissions are being generated. The inspections shall be performed during representative, normal operating conditions. The permittee may, upon receipt of written approval from the Canton local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the abovementioned applicable requirements.
- (5) The permittee shall maintain records of the following information for the inspections of the aggregate handling operations:



- a. the date and reason any required inspection was not performed;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
- c. the dates the control measure(s) was (were) implemented; and
- d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 5.d shall be kept separate for each material handling operation identified above and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- (6) The baghouse internal components and bags must be inspected regularly. Intervals between inspections should not exceed two (2) weeks during the asphalt production season. The permittee shall maintain records of such inspections and any repairs made.

Such records shall be made available to personnel from the Canton local air agency (or any other agent of the Ohio EPA) upon request during normal working hours.

- (7) The permittee shall conduct daily checks, when the emissions unit is in operation and when weather conditions allow, for any visible particulate emissions from the stack servicing the dryer. These checks shall be conducted under normal operating conditions. The checks shall be conducted for at least six consecutive minutes. The presence or absence of any visible particulate emissions shall be recorded in an operations log and shall be made available to personnel from the Canton local air agency (or any other agent of the Ohio EPA) upon request during normal working hours. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:

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

- (8) The permittee shall maintain the following records:

- a. records showing the breakdown of the amount of each raw material used in each product mix;
- b. records showing the type and amount of each fuel combusted;
- c. fuel analysis from the supplier of each type of fuel at the site; and



- d. records showing what types of asphalt are being stored on site, the supplier of the asphalt, and an analysis of each asphalt from the supplier.
 - (9) The permittee shall maintain daily records of the percentage of RAP/asphalt shingles mixed with the raw material feed mix; the weight of the RAP/asphalt shingles shall not exceed the weight of the virgin aggregate.
 - e) Reporting Requirements
 - (1) The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours' limitation.
 - (2) The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month asphalt production rate limitation.
 - (3) The permittee shall submit deviation (excursion) reports which identify all exceedances of the above-mentioned allowable pressure drop range.
 - (4) The permittee shall submit deviation (excursion) reports which identify each day when a fuel other than natural gas or number two fuel oil was burned in this emissions unit.
 - (5) The permittee shall submit deviation (excursion) reports that identify each day when a No. 2 fuel oil was burned that contained a sulfur content of more than 0.5 percent by weight.
 - (6) The permittee shall submit deviation (excursion) reports which identify any day when the material handling operations were not inspected.
 - (7) The permittee shall submit semiannual written reports which identify the following:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - b. any corrective actions taken to eliminate visible particulate emissions from the stack; and
 - c. all days when at least 6-minutes of daily checks for visible particulate emissions were not conducted when the emissions unit was in operation and the weather conditions were acceptable.
- The reports shall be submitted to the Canton local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.
- (8) These reports, as denoted by terms e)(1) through e)(7) are due by the date described in Part 1 - General Terms and Conditions of this permit under section a)(2).
 - (9) The permittee shall submit a Preventative Maintenance and Malfunction Abatement Plan (PM&MAP) to the Canton local air agency within thirty days after issuance of this FEPTIO. This PM&MAP shall comply with the requirements listed in OAC rule 3745-15-06(D)(1). The manual titled "Ohio EPA's Operation and Maintenance (O&M) Guidelines



for Air Pollution Control Equipment" provides excellent guidance on how to develop an acceptable PM&MAP.

- (10) The permittee shall notify the Canton local air agency in writing of any record showing that the baghouse was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the canton local air agency within 30 days after the event occurs.
- (11) The permittee shall furnish the Canton local air agency written notification as follows: A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Canton local air agency may request additional relevant information subsequent to this notice.
- (12) The permittee shall submit deviation (excursion) reports which identify any exceedance of the 50% percent RAP/asphalt shingles content limitation

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P. O. Box 163669
Columbus, Ohio 43216-3669 and

Canton City Health Department
Air Pollution Control Division
420 Market Avenue N.
Canton, OH 44702-1544

f) Testing Requirements

- (1) If necessary, compliance with the emission limitation(s) in sections 1. b)(1) and 1.b)(2) of these terms and conditions shall be determined in accordance with the test methods and procedures specified in 40 CFR Part 60 while the emissions unit is operating at or near maximum capacity, using only virgin aggregate and No. 2 oil as fuel for the dryer.

a. Emissions Limitation

Limit of 0.04 gr/dcsf of particulate emissions in the exhaust gases from the stack.

Applicable Compliance Method

If necessary, compliance shall be determined by emission testing in accordance with the test methods and procedures specified in Method 5, of 40 CFR Part 60, Appendix A for particulates.



b. Emissions Limitation

Visible particulate emissions from any stack associated with this emissions unit shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method

If necessary, compliance shall be determined by visible emission observations performed in accordance with USEPA Reference Method 9 and the procedures specified in OAC rule 3745-17-03 (B)(1).

c. Emissions Limitation

Burning natural gas or No. 2 fuel oil Nitrogen oxide emissions shall not exceed 5.63 lbs/hr and 3.75 tons/yr.

Applicable Compliance Method

If necessary, compliance shall be determined by emission testing using Method 7 of 40 CFR Part 60, Appendix A for NOx

Compliance with the annual limit shall be determined based upon the following formula:

$$E = A*B [1 \text{ ton} / 2,000 \text{ lbs}]$$

Where:

E = NOx emission rate in tons per year.

A = average emission rate in pounds NOx per ton of asphalt produced from the most recent performance stack test.

B = annual 12-month summation of asphalt produced (tons).

d. Emissions Limitation

Burning natural gas or No. 2 fuel oil

Carbon monoxide emissions shall not exceed 90 lbs/hr and 60 tons/yr.

Applicable Compliance Method

If necessary, compliance shall be determined by emission testing as specified in Method 10 or 10A of 40 CFR Part 60, Appendix A for CO.

Compliance with the annual limit shall be determined based upon the following formula:

$$E = A*B [1 \text{ ton} / 2,000 \text{ lbs}]$$

Where:

E = CO emission rate in tons per year.



A = average emission rate in pounds CO per ton of asphalt produced from the most recent performance stack test.

B = annual 12-month summation of asphalt produced (tons).

e. Emissions Limitation

Burning natural gas or No. 2 fuel oil

PM/PM10 stack emissions shall not exceed 7.95 lbs/hr and 8.19 tons/yr.

Applicable Compliance Method

If necessary, compliance shall be determined by emissions testing with the test methods and procedures specified in Method 5 of 40 CFR Part 60, Appendix A for particulates.

The TPY emission rate will be based on multiplying the short term lb/hr emission rate by the annual operating hours of the emissions unit.

f. Emissions Limitation

Burning natural gas or No. 2 fuel oil

VOC emissions shall not exceed 1.85 lbs/hr and 1.23 tons/yr.

Applicable Compliance Method

If necessary, compliance shall be determined by emission testing using Method 25 or 25A of 40 CFR Part 60, Appendix A for VOC

Compliance with the annual limit shall be determined based upon the following formula:

$$E = A*B [1 \text{ ton} / 2,000 \text{ lbs}]$$

Where:

E = VOC emission rate in tons per year.

A = average emission rate in pounds VOC per ton of asphalt produced from the most recent performance stack test.

B = annual 12-month summation of asphalt produced (tons).

g. Emissions Limitation

Burning natural gas

The sulfur dioxide (SO2) emissions shall not exceed 1.03 lbs/hr and 0.69 ton/yr.



Applicable Compliance Method(s)

Compliance shall be determined by emission testing using Method 6 of 40 CFR Part 60, Appendix A for SO2

Compliance with the annual limit shall be determined based upon the following formula:

$$E = A * B [1 \text{ ton} / 2,000 \text{ lbs}]$$

Where:

E = SO2 emission rate in tons per year.

A = average emission rate in pounds SO2 per ton of asphalt produced from the most recent performance stack test.

B = annual 12-month summation of asphalt produced (tons).

- h. Emissions Limitation
Burning No. 2 fuel oil

The sulfur dioxide (SO2) emissions shall not exceed 24.85 lbs/hr and 25.6 ton/yr.

Applicable Compliance Method(s)

Compliance shall be determined by emission testing using Method 6 of 40 CFR Part 60, Appendix A for SO2

Compliance with the annual limit shall be determined based upon the following formula:

$$142(\% \text{ sulfur})\text{lb}/1000 \text{ gal}$$

$$142(0.5)\text{lb}/1000 \text{ gal}$$

- i. Emissions Limitation

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed twenty percent opacity, as a three-minute average.

Applicable Compliance Method(s)

Compliance with the visible emission limitation for the aggregate handling operation(s) identified above 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, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.



j. Emissions Limitation

Fugitive PM emissions from aggregate material handling shall not exceed 12 tons/yr.

Applicable Compliance Method

Compliance shall be determined by calculations using the emission factor of 0.4 lb PM/ton of asphalt times 0.2 (80% control) times annual asphalt production.

k. Emissions Limitation

Fugitive PM₁₀ emissions from aggregate material handling shall not exceed 1.2 tons/yr.

Applicable Compliance Method

Compliance shall be determined by calculations using the emission factor of 0.04 lb PM₁₀/ton of asphalt from SCC 30500204 Cold Aggregate Handling times 0.2 (80% control) times annual asphalt production.

l. Emissions Limitation

SO₂ emissions shall not exceed 25.6 TPY as a 12-month, rolling summation.

Applicable Compliance Method

Monitoring and record keeping of the fuel oil used as required in section d)(8).

m. Emissions Limitation

CO emissions shall not exceed 60 TPY as a 12-month, rolling summation.

Applicable Compliance Method

Monitoring and recordkeeping of asphalt production as required in section d)(2).

n. Emissions Limitation

VOC emissions shall not exceed 1.23 TPY as a 12-month, rolling summation.

Applicable Compliance Method

Monitoring and recordkeeping of asphalt production as required in section d)(2).

o. Emissions Limitation

NO_x emissions shall not exceed 3.75 TPY as a 12-month, rolling summation.

Applicable Compliance Method



Monitoring and recordkeeping of asphalt production as required in section d)(2).

p. Emissions Limitation

Stack PM/PM10 emissions shall not exceed 25.6 TPY as a 12-month, rolling summation

Applicable Compliance Method

Monitoring and recordkeeping of hours of operation as required in section d)(1).

(2) Compliance with the operational limitations of this permit shall be determined in accordance with the following methods:

a. Operational Limitation:

The maximum annual operating hours for this emissions unit shall not exceed 2,060 hrs, based upon a rolling, 12-month summation of the operating hours.

Applicable Compliance Method

Compliance shall be achieved based on the monitoring and recordkeeping as specified in section d)(1).

b. Operational Limitation:

The maximum annual asphalt production for this emissions unit shall not exceed 300,000 tons per year based upon a rolling, 12-month summation of the production rates.

Applicable Compliance Method

Compliance shall be achieved based on the monitoring and recordkeeping as specified in section d)(2).

c. Operational Limitation:

Fuel Usage

The permittee shall combust, in this emissions unit, only natural gas or #2 fuel oil with no more than 0.5% sulfur content, by weight.

Applicable Compliance Method

Compliance shall be achieved based on the monitoring and recordkeeping as specified in section d)(8).

g) Miscellaneous Requirements

- (1) Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing the following criteria are met:



- a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - b. the portable emissions unit is operating pursuant to a currently effective PTI, permit to operate (PTO) or registration status;
 - c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Canton local air agency and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
 - d. in the Canton local air agency's and the appropriate field office's judgment, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.
- (2) In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:
- a. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
 - b. the portable emissions unit is equipped with best available technology;
 - c. the portable emissions unit owner has identified the proposed site to Ohio EPA;
 - d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - e. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
 - f. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to the proposed site; and
 - g. the portable emissions unit owner has provided the Ohio EPA with fifteen days' written notice of the relocation.
- (3) Any site approvals issued by the Ohio EPA, pursuant to 1. g) above, shall be valid for no longer than three years and are subject to renewal.

In order for the Canton local air agency and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Canton local air agency and the appropriate office having jurisdiction over the new site. Upon receipt of the notice, the Canton local air agency and/or the appropriate field office having jurisdiction over the new site will evaluate the request in accordance with the above criteria.



Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

- (4) This source is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

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 nor 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 (Required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
Lazarus Government Center
P.O. Box 104
Columbus, OH 43216-1049
and

Canton City Health Department
Air Pollution Control Division
420 Market Avenue N.
Canton, OH 44702-1544

- (5) The following terms and conditions of this permit are federally enforceable: 1. b), c), d), e), and f).
- (6) Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may.