

**Synthetic Minor Determination and/or**  **Netting Determination**

Permit To Install **01-01342**

**A. Source Description**

The Shelly Company has submitted a PTI application which includes proposed federally enforceable limits for Shelly 92 Plant located in Dublin. The purpose of the federally enforceable limits is to effectively restrict Plant 92's Potential to Emit (PTE) below those levels which trigger Title V permitting requirements and non attainment new source review . The proposed Federally Enforceable limits are specific to emissions unit P901.

**B. Facility Emissions and Attainment Status**

Plant 92's PTE based upon 8760 hours of operation, is above 100 tons/year for NOx, CO, VOC and SO2. Plant 92's current PTE, based upon 8760 hours per year of operation, is described below.

<u>E.U.</u>	<u>NOx PTE(TPY)</u>	<u>CO PTE(TPY)</u>	<u>VOC PTE(TPY)</u>	<u>SO2 PTE(TPY)</u>
P901	126.1	394.2	236.5	237.7
Facility Total	126.1	394.2	236.5	237.7

Due to the proposed synthetic minor strategy, the PTE of P901, upon issuance of the PTI, will be as described below.

<u>E.U.</u>	<u>NOx PTE(TPY)</u>	<u>CO PTE(TPY)</u>	<u>VOC PTE(TPY)</u>	<u>SO2 PTE(TPY)</u>
P901	16.0	50.0	30.0	30.1

Therefore, Plant 92's facility-wide PTE upon issuance of the PTI will be as described below:

<u>E.U.</u>	<u>NOx PTE(TPY)</u>	<u>CO PTE(TPY)</u>	<u>VOC PTE(TPY)</u>	<u>SO2 PTE(TPY)</u>
P901	16.0	50.0	30.0	30.1
Total PTE	16.0	50.0	30.0	30.1

**C. Source Emissions**

The facility and the Ohio EPA have agreed a synthetic minor strategy that includes a rolling 12-month operational restriction and emissions calculation formula that corresponds to maximum annual emissions below those levels which trigger Title V permitting requirements and/or non attainment new source review. The aforementioned formula calculates the emissions, based upon the most recent stack test, by multiplying the observed emissions factor (in the units of lbs of pollutant/ ton of asphalt produced) by the actual number of tons of asphalt produced(as recorded in the records required by the permit).

**D. Conclusion**

The operation of emissions units in accordance with the terms and conditions of the proposed PTI will result in maximum annual facility emissions below those levels which trigger Title V permitting requirements or non attainment New Source Review.

The proposed PTI includes federally enforceable limits, record keeping, reporting and production limitations to ensure continued compliance with the PTI's requirements.



State of Ohio Environmental Protection Agency

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

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

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

**RE: DRAFT PERMIT TO INSTALL**

**FRANKLIN COUNTY**

**Application No: 01-01342**

**Fac ID: 0125041880**

**DATE: 3/9/2006**

Shelly Materials Plant 92  
Larry Shively  
Post Office Box 266 8775 Blackbird Lane  
Thornville, OH 43076

**CERTIFIED MAIL**

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

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$1250** will be due. Please do not submit any payment now.

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. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Sincerely,

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

**FRANKLIN COUNTY**

**PUBLIC NOTICE**

**ISSUANCE OF DRAFT PERMIT TO INSTALL 01-01342 FOR AN AIR CONTAMINANT SOURCE FOR  
Shelly Materials Plant 92**

On 3/9/2006 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Shelly Materials Plant 92**, located at **2280 Dublin Road, Columbus, Ohio**.

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 01-01342:

**To include alternative fuels in permit.**

Comments concerning this draft action, or a request for a public meeting, must be sent in writing to the address identified below no later than thirty (30) days from the date this notice is published. All inquiries concerning this draft action may be directed to the contact identified below.

Isaac Robinson, Ohio EPA, Central District Office, 3232 Alum Creek Drive, Columbus, OH 43207-3417  
[(614)728-3778]



**Permit To Install  
Terms and Conditions**

**Issue Date: To be entered upon final issuance  
Effective Date: To be entered upon final issuance**

**DRAFT PERMIT TO INSTALL 01-01342**

Application Number: 01-01342

Facility ID: 0125041880

Permit Fee: **To be entered upon final issuance**

Name of Facility: Shelly Materials Plant 92

Person to Contact: Larry Shively

Address: Post Office Box 266 8775 Blackbird Lane  
Thornville, OH 43076

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**2280 Dublin Road  
Columbus, Ohio**

Description of proposed emissions unit(s):  
**To include alternative fuels in permit.**

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. Permit to Install General Terms and Conditions**

#### **1. Compliance Requirements**

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

#### **2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

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

#### **3. Records Retention Requirements**

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### **4. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and

**Shelly Materials Plant 92**

**PTI Application: 01-01342**

**Issued: To be entered upon final issuance**

**Facility ID: 0125041880**

regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. 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.

**7. 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.

**8. 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.

**9. 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

**Shelly Materials Plant 92**

**PTI Application: 01-01342**

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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.

#### **10. Public Disclosure**

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

#### **11. Applicability**

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

#### **12. Best Available Technology**

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

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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this

**Shelly Materials Plant 92****PTI Application: 01-01342****Issued: To be entered upon final issuance****Facility ID: 0125041880**

permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

#### **14. Construction Compliance Certification**

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

#### **15. 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.

### **B. 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>
NOx	16.0
CO	50.0
SO2	30.1
VOC	30.0
PM(stack)	9.14
PM-10(stack)	9.14
PM(fugitive)	16.74
PM-10(fugitive)	6.39

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

**A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P901 - 480 TPH Batch plant controlled by a baghouse	OAC rule 3745-31-05(A)(3)	<p>Carbon monoxide (CO) emissions from burning on-spec used oil , number 2 fuel oil, number 4 fuel oil, number 6 fuel oil or natural gas shall not exceed 90.0 lbs/hr.</p> <p>Nitrogen Oxide (NO<sub>x</sub>) emissions from burning on-spec used oil, number 2 fuel oil, number 4 fuel oil, or number 6 fuel oil shall not exceed 21.6 lbs/hr.</p> <p>NO<sub>x</sub> emissions from burning natural gas shall not exceed 28.8 lbs/hr.</p> <p>Sulfur Dioxide (SO<sub>2</sub>) emissions from burning on-spec used oil or number 2 fuel oil shall not exceed 27.14 lbs/hr.</p> <p>Sulfur Dioxide (SO<sub>2</sub>) emissions from burning number 4 fuel oil shall not exceed 43.43 lbs/hr.</p> <p>Sulfur Dioxide (SO<sub>2</sub>) emissions from burning number 6 fuel oil shall not exceed 54.28 lbs/hr.</p> <p>SO<sub>2</sub> emissions from burning natural gas shall not exceed 1.66 lbs/hr.</p> <p>Volatile Organic Compound (VOC) emissions from burning on-spec used oil, number 2 fuel oil, number 4 fuel oil,</p>

number 6 fuel oil, or natural gas shall not exceed 16.78 lbs/hr.

Emissions of fugitive PM-10 shall not exceed 6.39 pounds per hour .

Fugitive particulate emissions shall not exceed 16.74 pounds per hour.

Arsenic, cadmium, chromium, and lead emissions are limited by the fuel specifications in A.2.b below.

Visible particulate emissions from the stack shall not exceed 20% opacity, as a 3-minute average.

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see section A.2.a).

No visible emissions of fugitive dust from the enclosures for the hot aggregate elevator.

Visible emissions of fugitive dust (from areas other than the enclosures for the hot aggregate elevator) shall be less than or equal to 10% opacity, as a 3-minute average.

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 aggregate storage bins.

The aggregate loaded into the storage bins shall have a moisture content sufficient to minimize the visible emissions of fugitive dust from conveyors and all transfer points to the dryer.

OAC rule 3745-35-07(B)

The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07(B) and 40 CFR Part 60, Subpart I.

See A.2.a-e below

Particulate emissions (PE) from the stack shall not exceed 9.14 tons per rolling 12-month period.

PM-10 emissions from the stack shall not exceed 9.14 tons per rolling 12-month period.

Fugitive PE shall not exceed 16.74 tons per rolling 12-month period.

Fugitive PM-10 emissions shall not exceed 6.39 tons per rolling 12-month period.

CO emissions shall not exceed 50.0 tons per rolling 12-month period.

VOC emissions shall not exceed 30.0 tons per rolling 12-month period.

SO<sub>2</sub> emissions shall not exceed 30.1 tons per rolling 12-month period.

NO<sub>x</sub> emissions shall not exceed 16.0 tons per rolling 12-month period.

Fugitive emissions from drum mix load out operations (hot side) shall not exceed 0.83 ton VOC per rolling 12-month period and 0.27 ton CO per rolling 12-month period.

Fugitive emissions from the silo filling operations (hot side) shall not exceed 2.44 tons VOC per rolling 12-month period and 0.24 ton CO per rolling 12-month period.

OAC rule 3745-17-07(A)(1)  
OAC rule 3745-17-11(B)(1)  
OAC rule 3745-17-07(B)  
OAC rule 3745-17-08

OAC rule 3745-18-06(E)	<p>The emissions limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).</p> <p>The emissions limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).</p> <p>See term A.2.f below.</p> <p>See term A.2.g below.</p> <p>PE from the stack shall not exceed 0.04 gr/dscf.</p>
OAC rule 3745-23-06(B)	
OAC rule 3745-21-08(B)	
40 CFR Part 60, Subpart I	

**2. Additional Terms and Conditions**

- 2.a** The permittee shall ensure that the baghouse is operated with sufficient air volume to minimize or eliminate visible fugitive emissions from the rotary drum.
- 2.b** All used oil burned in this emissions unit shall be “on-specification” (on-spec) oil and must meet the used oil fuel specifications contained in OAC 3745-279-11, which restricts the used oil to the following limitations:

Contaminant/Property	Allowable Specifications
arsenic	5 ppm, maximum
cadmium	2 ppm, maximum
chromium	10 ppm, maximum
lead	100 ppm, maximum
total halogens	4,000 ppm maximum**
flash point	100°F, minimum;

and shall also not exceed the following maximum PCB and mercury limitations nor fall below the following heating value:

heat content	135,000 Btu/gallon, minimum
PCB's	50 ppm, maximum*
mercury	1 ppm, maximum

\* Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under paragraph (B)(1)

of rule 3745-279-10 of the Administrative Code. The permittee may receive and burn used oil exceeding 1,000 ppm total halogens (but less than 4,000 ppm maximum) only if the permittee has demonstrated that the used oil does not contain any hazardous waste pursuant to OAC rule 3745-279-63.

The burning of used oil not meeting the above limitations is prohibited in this emissions unit. The management and burning of used oil is subject to the Standards for the Management of Used Oil, OAC Chapter 3745-279, and the permittee shall document and assure that used oils burned in this emissions unit meet all of the applicable requirements of this Chapter.

- 2.c** All number 2 and on-spec used oil burned in this emission unit shall have a sulfur content equal to or less than 0.5%.
- 2.d** All number 4 fuel oil burned in this emission unit shall have a sulfur content equal to or less than 0.8%.
- 2.e** All number 6 fuel oil burned in this emission unit shall have a sulfur content equal to or less than 1.0%.
- 2.f** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On February 15, 2005, OAC rule 3745-23-06 was rescinded and is no longer part of State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revision to the SIP, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.g** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.h** The following material handling operations are covered by this permit and subject to the above-mentioned requirements: vibrating screens, conveyor transfer points, elevators, storage bin and weigh hopper loading, silo filling, and drum mix load-out operations.

**B. Operational Restrictions**

1. The pressure drop across the fabric filter shall be maintained within the range of 1 to 8 inches of water while the emissions unit is in operation.
2. The permittee may not receive or burn any on-spec used oil which does not meet the specifications listed in A.2.b of this permit without first obtaining a permit to install that authorizes the burning of such off-specification used oil. The burning of off-specification used oil is subject to OAC rule 3745-279-60 through 67.
3. The maximum annual asphalt production rate for this emissions unit shall not exceed 400,000 tons per year, based upon a rolling, 12-month summation of the production rates. The company has existing records for the current operational location such that the applicant does not need to be restricted to first year monthly asphalt production.
4. The permittee shall operate and maintain the fuel burner in accordance with the manufacturer's recommendations to ensure efficient combustion of the fuel(s) and to ensure compliance with the applicable emission limitations for VOC, CO and NOx.
5. The permittee may substitute reclaimed asphalt pavement (RAP) in the raw material feed mix in amounts not to exceed 50 percent of all aggregate materials.
6. The permittee shall only use virgin aggregate and RAP in the raw material feed mix.
7. The permittee shall only burn natural gas, #2 fuel oil, #4 fuel oil, #6 fuel oil and/or on-spec used oil in this emissions unit. In order to use a fuel on an ongoing basis, the permittee shall complete the emissions testing for that fuel as specified in Section E.1.a.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall receive and maintain the chemical analyses from the supplier/marketer for each shipment of used oil burned in this emissions unit, which shall contain the following information:
  - a. the date the used oil was received at the facility;
  - b. the name, address, and U.S. EPA identification number (if applicable) of the generator, transporter, processor/re-finer, supplier, and/or marketer;
  - c. the results of the chemical analyses demonstrating the used oil meets the standards in OAC rule 3745-279-11, including:

- i. arsenic content, in ppm;
  - ii. the cadmium content, in ppm;
  - iii. the chromium content, in ppm;
  - iv. the lead content, in ppm;
  - v. total halogens, in ppm; and
  - vi. the flash point;
- d. the analysis demonstrating that the used oil has a total halogen content below 1,000 ppm, or below 4,000 ppm with the demonstration for the rebuttal of the presumption that the oil is hazardous waste or has been mixed with hazardous waste, as described in OAC rule 3745-279-63 (B); and
- e. the results of the analyses demonstrating that the used oil meets the heating value and mercury and PCB limitations contained in this permit.

The metal contents for arsenic, cadmium, chromium, lead, and mercury shall be analyzed using a "Totals Analysis" or "Total Metals" testing methodology. Chapter Two of "Testing Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)" should be used for selecting appropriate test methods for the used oil analyses. Under no circumstances shall the metal contents of the used oil be analyzed using "TCLP", "EP-TOC", or other similar testing procedures.

Each analysis shall be kept in a readily accessible location for a period of not less than 3 years following the receipt of each shipment of used oil and shall be made available to the Ohio EPA Division of Hazardous Waste Management and/or the Division of Air Pollution Control (the appropriate Ohio EPA District Office or local air agency) upon verbal or written request. Any authorized representative of the Ohio EPA may sample or require sampling of any used oil shipments received, stored, or burned by/at this facility for periodic detailed chemical analyses, through an independent laboratory.

2. 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 daily basis.
3. The permittee shall maintain monthly records of the following information:
  - a. The asphalt production for each month;
  - b. The rolling, 12-month summation of the asphalt production; and
  - c. the maximum percentage RAP used for any mix.

4. For each shipment of number 2 fuel oil, number 4 fuel oil, number 6 fuel oil, and on-spec used oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittees or oil supplier's analyses for sulfur content and heat content.
5. The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the enclosures for the hot aggregate elevator, servicing this emissions unit. If visible particulate emissions are observed, the permittee shall note the following in the operation log:
  - a. the color of the visible particulate emissions;
  - b. the cause of the visible particulate emissions;
  - c. the total duration of the visible particulate emission incident; and
  - d. corrective actions taken to eliminate the visible particulate emissions.

The permittee may, upon receipt of written approval from the Ohio EPA, Central District Office, modify the above-mentioned visible particulate emissions check frequency if operating experience indicates that less frequent checks would be sufficient to ensure compliance with the visible particulate emissions requirements.

6. The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when the weather conditions allow, for any abnormal visible particulate emissions from the stack, aggregate storage bins, vibrating screens, weigh hopper, and cold aggregate elevator/conveyor serving this emissions unit. If abnormal visible emissions are observed, the permittee shall note the following in the operation log:
  - a. the color of the abnormal visible particulate emissions;
  - b. the cause of the abnormal visible particulate emissions;
  - c. the total duration of any abnormal visible particulate emissions incident; and
  - d. any corrective actions taken to eliminate the abnormal visible particulate emissions.

The permittee may, upon receipt of written approval from the Ohio EPA, Central District Office modify the above-mentioned visible particulate emissions check frequency if operating experience indicates that less frequent checks would be sufficient to ensure compliance with the visible particulate emissions requirements.

7. While performing each burner tuning, the permittee shall record the results of the burner tuning using the *Burner Tuning Reporting Form for Asphalt Concrete Plants* form (as found in term F.2). An alternative form may be used upon approval of the appropriate Ohio EPA District Office or local air agency.

#### **D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports are due by the date described in Part 1- General Terms and Condition of this permit under section (A)(2).
2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling 12-month asphalt production limitation . These reports are due by the date described in Part 1- General Terms and Conditions of this permit under section (A)(2).
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the RAP limitation specified above. These reports are due by the date described in Part 1- General Terms and Condition of this permit under section (A)(2).
4. The permittee shall submit annual reports which specify the total PM, SO<sub>2</sub>, NO<sub>x</sub>, VOC and CO emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year.
5. The permittee shall notify the Ohio EPA Division of Hazardous Waste Management and the Division of Air Pollution Control (the appropriate Ohio EPA District Office or local air agency), in writing and within 30 days, of burning any used oil exceeding the limitations found in OAC rule 3745-279-11 and/or any incident or occurrence of non-compliance with any other applicable requirement of OAC Chapter 3745-279; and shall also notify the Ohio EPA Division of Air Pollution Control, within the same amount of time, if any oil is/was burned which exceeds the mercury limitation of 1 ppm, exceeds the PCB's limitation of 50 ppm, and/or is documented as having a heating value of less than 135,000 Btu/gallon.
6. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the sulfur content limitations specified above. These reports are due by the date described in Part 1- General Terms and Condition of this permit under section (A)(2).
7. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
  - a. identify all days during which any abnormal visible particulate emissions were observed from the stack, aggregate storage bins, vibrating screens, weigh hopper, and cold aggregate elevator/conveyors serving this emissions unit;

- b. identify all days during which any visible fugitive particulate emissions were observed from the enclosures for the hot aggregate elevator;
- c. describe any corrective actions taken to eliminate the abnormal visible particulate emissions.

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

- 8. The permittee shall submit a copy of the *Burner Tuning Reporting Form for Asphalt Concrete Plants* form to the appropriate Ohio EPA district office or local air agency to summarize the results of each burner tuning procedure. These reports shall be submitted to the Ohio EPA district office or local air agency by January 31 of each year and shall cover the previous calendar year.
- 9. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the raw material composition limitation specified above. These reports are due by the dates described in Part I - General Terms and Condition of this permit under section (A)(2).

## **E. 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 Limitations: PE shall not exceed 0.04 gr/dscf; Carbon monoxide (CO) emissions from burning on-spec used oil , number 2 fuel oil, number 4 fuel oil, number 6 fuel oil or natural gas shall not exceed 90.0 lbs/hr; Nitrogen Oxide (NO<sub>x</sub>) emissions from burning on-spec used oil, number 2 fuel oil, number 4 fuel oil, or number 6 fuel oil shall not exceed 21.6 lbs/hr; NO<sub>x</sub> emissions from burning natural gas shall not exceed 28.8 lbs/hr; Sulfur Dioxide (SO<sub>2</sub>) emissions from burning on-spec used oil or number 2 fuel oil shall not exceed 27.14 lbs/hr; Sulfur Dioxide (SO<sub>2</sub>) emissions from burning number 4 fuel oil shall not exceed 43.43 lbs/hr; Sulfur Dioxide (SO<sub>2</sub>) emissions from burning number 6 fuel oil shall not exceed 54.28 lbs/hr; SO<sub>2</sub> emissions from burning natural gas shall not exceed 1.66 lbs/hr; and Volatile Organic Compound (VOC) emissions from burning on-spec used oil, number 2 fuel oil, number 4 fuel oil, or number 6 fuel oil shall not exceed 16.78 lbs/hr.

Applicable Compliance Method: The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted within 60 days after achieving the maximum production rate for the primary fuel but no later than 120 days after initial startup of the emissions unit. Emissions testing for secondary fuels shall be conducted within 60 days after the switch to the secondary fuel;

- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE, VOC, CO, NO<sub>x</sub> and SO<sub>2</sub> for the primary fuel. Prior to secondary fuel emissions testing, the permittee shall consult the Ohio EPA, Central District Office to determine which pollutants should be tested;
- iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) for:

For PE, Methods 1-5 of 40 CFR Part 60, Appendix A

For NO<sub>x</sub>, Methods 1-4 and 7 or 7E of 40 CFR Part 60, Appendix A

For SO<sub>2</sub>, Methods 1-4 and 6 or 6C of 40 CFR Part 60, Appendix A

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

For VOC, Methods 1-4 and 25 and/or 18 of 40 CFR Part 60, Appendix A

The VOC pounds per hour emission rate observed during the emissions test shall be calculated in accordance with OAC rule 3745-21-10(C)(7) where the average molecular weight of the VOC emissions equals 16. i.e., the VOC as carbon emission rate observed during testing shall be converted to the appropriate units by multiplying the VOC as carbon emission rate observed during testing by 16 and dividing by 12.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA; and

- iv. The test(s) shall be conducted while this emissions unit is operating at or near its maximum capacity and burning natural gas, #2 fuel oil, #4 fuel oil or on-spec used oil for PE, VOC, CO, NO<sub>x</sub> and SO<sub>2</sub> and employing RAP to verify VOC emissions, unless otherwise specified or approved by the Ohio EPA Central District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. 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, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central District Office 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 Ohio EPA, Central District Office 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 Ohio EPA, Central District Office.

- b. Emissions Limitation: PE emissions shall not exceed 9.14 tons per rolling 12-month period.

Applicable Compliance Method: Compliance shall be determined by multiplying the observed emission rate from the most recent emissions testing for each fuel, in pounds of PE per ton of asphalt produced, by the actual rolling, 12-month summation of asphalt produced for each fuel, in tons per rolling, 12-month period (as derived from the records required by Section C.3 above), summing the results for all fuels, and dividing by 2000.

- c. Emission Limitation: VOC emissions shall not exceed 30.0 tons per rolling 12-month period.

Applicable Compliance Method: Compliance shall be determined by multiplying the observed emission rate from the most recent emissions testing for each fuel, in pounds of VOC per ton of asphalt produced, by the actual rolling, 12-month summation of asphalt produced for each fuel, in tons per rolling, 12-month period (as derived from the records required by Section C.3 above), summing the results for all fuels, and dividing by 2000.

- d. Emission Limitation: SO<sub>2</sub> emissions shall not exceed 30.1 tons per rolling 12-month period.

Applicable Compliance Method: Compliance shall be determined by multiplying the observed emission rate from the most recent emissions testing for each fuel, in pounds of SO<sub>2</sub> per ton of asphalt produced, by the actual rolling, 12-month summation of asphalt produced for each fuel, in tons per rolling, 12-month period (as derived from the records required by Section C.3 above), summing the results for all fuels, and dividing by 2000.

- e. Emission Limitation: NO<sub>x</sub> emissions shall not exceed 16.0 tons per rolling 12-month period.

Applicable Compliance Method: Compliance shall be determined by multiplying the observed emission rate from the most recent emissions testing for each fuel, in

pounds of NOx per ton of asphalt produced, by the actual rolling, 12-month summation of asphalt produced for each fuel, in tons per rolling, 12-month period (as derived from the records required by Section C.3 above), summing the results for all fuels, and dividing by 2000.

- f. Emission Limitations: Arsenic, cadmium, chromium and lead emissions are limited by the fuel specifications in A.2.b.

Applicable Compliance Method: Compliance with the emissions limitation for arsenic, cadmium and lead shall be demonstrated by the monitoring and recordkeeping in Section C.1 of this permit.

- g. Emission Limitation: Visible particulate emissions from the stack shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method: Compliance shall be determined using Method 9 as set forth in 40 CFR Part 60 Appendix A, 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.

- h. Emission Limitation: No visible emissions of fugitive dust from the enclosures for the hot aggregate elevator:

Applicable Compliance Method: Compliance with the limitations on visible emissions of fugitive dust found in Section A.1 of this permit shall be demonstrated by the monitoring and record keeping in Section C.5.

- i. Emission Limitation: Visible emissions of fugitive dust (from areas other than the enclosures for the hot aggregate elevator) shall be less than or equal to 10% opacity, as a 3-minute average.

Applicable Compliance Method: 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, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

- j. Emissions Limitation: PM-10 emissions from the stack shall not exceed 9.14 tons per rolling 12-month period.

Applicable Compliance Method: Compliance with the annual emissions limitation shall be assumed as long as compliance is maintained with the rolling 12-month emissions limitation for particulate emissions.

- k. Emissions Limitation: Fugitive PM-10 emissions shall not exceed 6.39 tons per rolling 12-month period.

Applicable Compliance Method: Compliance with the annual emissions limitation shall be assumed based upon the following worst case calculations:

Total fugitive emissions equal the summation of the fugitives from the cold end and the hot end of the plant operations.

Fugitives emissions from the cold end are calculated as follows:

**Material Loading (AP-42, Fifth edition, Table 11.12-2, 10/01):**

$((400,000 \text{ tons of material/year} \times 0.0024 \text{ lb PM-10/ton of material}) + (200,000 \text{ tons of aggregate/year} \times 0.0033 \text{ lb PM-10/ton of aggregate}) + (200,000 \text{ tons of sand/year} \times 0.00099 \text{ lb PM-10/ton of sand})) \times (1 \text{ ton}/2000 \text{ pounds}) = .909 \text{ ton of PM-10/year}$

**Screening (AP-42, Fifth edition, Table 11.19.2-2, 08/04):**

$(400,000 \text{ tons of material/year}) \times (0.0087 \text{ lb PM-10/ton of material}) = 1.74 \text{ tons PM-10/year}$

**Transfer Points (AP-42, Fifth edition, Table 11.19.2-2, 08/04):**

$(400,000 \text{ tons of material/year}) \times (16 \text{ transfer points}) \times (0.0011 \text{ lb PM-10/ton of material}) = 3.52 \text{ tons of PM-10/year}$

Fugitives emissions from the hot end are calculated as follows:

**Drum Mix Load-out (AP-42, Fifth edition, Table 11.1-14, 03/04):**

Emission factor =  $0.000181 + 0.00141(-V)e^{((0.0251)(T+460) - 20.43)} = 0.000522 \text{ lb/ton asphalt}$

where,

V = asphalt volatility (- 0.5)\*

T = HMA temperature (325°F)\*

\* Default values listed in AP-42

$(400,000 \text{ tons of asphalt produced} \times 0.000522 \text{ lb of PM-10/ton of asphalt produced}) \times (1 \text{ ton}/2000 \text{ pounds}) = 0.10 \text{ ton of PM-10/ year}$

**Silo Filling (AP-42, Fifth edition, Table 11.1-14, 03/04):**

Emission factor =  $0.000332 + 0.00105(-V)e^{((0.0251)(T+460) - 20.43)} = 0.000586 \text{ lb/ton asphalt}$

where,

V = asphalt volatility (- 0.5)\*

T = HMA temperature (325°F)\*

\* Default values listed in AP-42

(400,000 tons of asphalt produced X 0.000586 lb of PM-10/ton of asphalt produced)  
X ( 1 ton/2000 pounds) = 0.117 ton of PM-10/year

Total fugitive emissions are therefore 6.39 tons of PM-10/year

- I. Emissions Limitation: Fugitive PM emissions shall not exceed 16.74 tons per rolling 12-month period.

Applicable Compliance Method: Compliance with the annual emissions limitation shall be assumed based upon the following worst case calculations:

Total fugitive emissions equal the summation of the fugitives from the cold end and the hot end of the plant operations.

Fugitives emissions from the cold end are calculated as follows:

**Material Loading (AP-42, Fifth edition, Table 11.12-2, 10/01):**

((400,000 tons of material/year X 0.0051 lb PM/ton of material) + (200,000 tons of aggregate/year X 0.0069lb PM/ton of aggregate) + (200,000 tons of sand/year X 0.0021 lb PM/ton of sand)) X ( 1 ton/2000 pounds) = 1.92 tons of PM/year

**Screening (AP-42, Fifth edition, Table 11.19.2-2, 08/04):**

(400,000 tons of material/year) X (0.025 lb PM/ton of material) = 5.0 tons PM/year

**Transfer Points (AP-42, Fifth edition, Table 11.19.2-2, 08/04):**

(400,000 tons of material/year) X (16 transfer points) X (0.0030 lb PM/ton of material) = 9.6 tons of PM/year

Fugitives emissions from the hot end are calculated as follows:

**Drum Mix Load-out (AP-42, Fifth edition, Table 11.1-14, 03/04):**

Emission factor =  $0.000181 + 0.00141(-V)e^{((0.0251)(T+460) - 20.43)}$  = 0.000522 lb/ton asphalt

where,

V = asphalt volatility (- 0.5)\*  
T = HMA temperature (325°F)\*

\* Default values listed in AP-42

(400,000 tons of asphalt produced X 0.000522 lb of PM/ton of asphalt produced) X ( 1 ton/2000 pounds) = 0.10 ton of PM.

**Silo Filling (AP-42, Fifth edition, Table 11.1-14, 03/04):**

Emission factor =  $0.000332 + 0.00105(-V)e^{((0.0251)(T+460) - 20.43)}$  = 0.000586 lb/ton asphalt

where,

V = asphalt volatility (- 0.5)\*  
T = HMA temperature (325°F)\*

\* Default values listed in AP-42

(400,000 tons of asphalt produced X 0.000586 lb of PM/ton of asphalt produced) X ( 1 ton/2000 pounds) = 0.117 ton of PM/year

Total fugitive emissions are therefore 16.74 tons of PM/year.

- m. Emission Limitations: Emissions of fugitive PM-10 shall not exceed 6.39 pounds per hour.

Applicable Compliance Method: Compliance with this emissions limitation shall be assumed based upon the following worst case calculation:

$$6.39 \text{ PM-10/ yr} \times 2000 \text{ lbs/ ton} \times 1 \text{ yr}/2000 \text{ hours} = 6.39 \text{ PM-10/hr}$$

- n. Emission Limitations: Emissions of fugitive PM shall not exceed 16.74 pounds per hour.

Applicable Compliance Method: Compliance with this emissions limitation shall be assumed based upon the following worst case calculation:

$$16.74 \text{ ton PM/ yr} \times 2000 \text{ lbs/ ton} \times 1 \text{ yr}/2000 \text{ hours} = 16.74 \text{ lb PM/hr}$$

- o. Emission Limitations: Fugitive emissions from drum mix load out operations (hot side) shall not exceed 0.83 ton VOC per rolling 12-month period and 0.27 ton CO per rolling 12-month period. Fugitive emissions from the silo filling operations (hot side) shall not exceed 2.44 tons VOC per rolling 12-month period and 0.24 ton CO per rolling 12-month period.

Applicable Compliance Method: Compliance with this emissions limitation shall be assumed based upon the following worst case calculations.

Fugitive emissions from the hot side load out and silo filling operations are calculated based on the following emission factors from AP-42, Fifth edition, Table 11.1-14, 03/04:

<u>Activity</u>	<u>Pollutant</u>	<u>Predictive Emission Factor Equation (lb/ton)</u>
Load-out	VOC**	$EF = 0.0172 (-V)e^{((0.251)(T+460) - 20.43)}$
Silo Filling	VOC**	$EF = 0.0504 (-V)e^{((0.251)(T+460) - 20.43)}$
Load-out	CO	$EF = 0.00558 (-V)e^{((0.251)(T+460) - 20.43)}$
Silo Filling	CO	$EF = 0.00488 (-V)e^{((0.251)(T+460) - 20.43)}$

where,

V = asphalt volatility (- 0.5)\*

T = HMA temperature (325°F)\*

\* Default values listed in AP

\*\* Assumes VOC = TOC

Based on the above information, the emission factors and emissions are as follows:

<u>Activity</u>	<u>Pollutant</u>	<u>EF, in lb/ton</u>	<u>tons/year (at 400,000 tons/yr production)</u>
Load-out	VOC*	$4.16 \times 10^{-3}$	0.83
Silo Filling	VOC*	$1.22 \times 10^{-2}$	2.44
Load-out	CO	$1.35 \times 10^{-3}$	0.27
Silo Filling	CO	$1.18 \times 10^{-3}$	0.24

## 2. Burner Tuning

### a. Introduction

The permittee is required to conduct periodic tuning of the asphalt plant burner. The purpose of this tuning is to ensure that the burner is adjusted properly so that air pollution emissions remain in compliance with allowable emissions rates and are minimized.

### b. Qualifications for Burner Tuning

Technicians who conduct the burner tuning must be qualified to perform the expected tasks. The permittee is required to provide training to the technicians who perform the burner tuning procedure. Technicians who are qualified shall, at a

minimum, have passed manufacturer's training concerning burner tuning, or have been trained by someone who has completed the manufacturer's training concerning burner tuning.

c. Portable Monitor Requirements

The permittee shall properly operate and maintain portable device(s) to monitor the concentration of NO<sub>x</sub>, O<sub>2</sub> and CO in the stack exhaust gases from this emissions unit. The monitor(s) shall be capable of measuring the expected concentrations of the measured gases. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall maintain records of each portable monitoring device's calibration.

d. Burner Tuning Procedure

The first steps concerning burner tuning involve setting the pollutant baseline levels (concentrations) utilizing the portable monitor. These baselines shall be set during the initial U.S. EPA approved emissions testing that demonstrated the emissions unit was in compliance with all applicable emissions limitations as described in term E.1.a. The baselines shall be determined for NO<sub>x</sub>, and CO. Sampling should measure the exhaust gas values exiting the baghouse. The duration of each sample shall follow the portable monitor manufacturer's recommendations. Record these values on the *Burner Tuning Reporting Form for Asphalt Concrete Plants* form (as found in Section F.4) in the "Recent Stack Test Basis Values" column.

Once the pollutant baseline levels are set, the burner shall be next tuned based on the frequency described in Section E.2.e. The general procedure for tuning the burner involves the following steps:

- i. Review the plant operations to ensure the plant is operating normally.
- ii. Confirm that the portable monitor is calibrated per the manufacturer's specifications.
- iii. Using the calibrated monitor and the monitor manufacturer's recommended sampling duration, measure the stack exhaust gas values for NO<sub>x</sub>, and CO. These measurements shall be taken at the same location as the location where the baseline samples were taken. Record the values in the "Pre Tuning" results column on the *Burner Tuning Reporting Form for Asphalt Concrete Plants* form.
- iv. Compare the measured stack exhaust gas values with the pollutant baseline values. If all of the measured stack exhaust gas values are equal to or less than 115 percent of the pollutant baseline values, then it is not necessary to tune the burner. Go on to Section v. below.

The permittee shall have the burners tuned within two calendar weeks of any measured stack exhaust values greater than 115 percent of the baseline values. Make any necessary adjustments and repairs. Repeat Sections iii. and iv. until the measured stack exhaust gas values are equal to or less than 115 percent of the pollutant baseline values.

v. Once all of the measured stack exhaust gas values are within the 115 percent of the pollutant baseline values, record the measured stack exhaust gas values in the "Post Tuning" results column on the *Burner Tuning Reporting Form for Asphalt Concrete Plants* form.

vi. By January 31st of each year, submit a copy of all *Burner Tuning Reporting Form for Asphalt Concrete Plants* forms produced during the past calendar year to the Ohio EPA District Office or local air agency responsible for the permitting of the facility.

e. **Burner Tuning Frequency**

The permittee shall conduct the burner tuning procedure within 20 production days after commencement of the production season in the State of Ohio. The permittee shall conduct another burner tuning procedure within 10 production days before or after June 1st of each year and within 10 production days before or after September 1st of each year. For purposes of this permit, the production season is defined as the time period between the date the first ton of asphalt is produced and the date that the last ton of asphalt is produced during the same calendar year. A burner tuning is not required if the production season ends prior to the associated tuning due date. If the baseline level testing or the initial season tuning is done within 30 days prior to June 1 or September 1, the tuning associated with that due date is not required.

In addition to the burner tuning procedure required above, the permittee shall conduct the burner tuning procedure within 20 production days from the date the facility switches to a fuel that is different than the fuel burned during the initial emissions tests that establish the pollutant baseline levels or the fuel burned during the most recent burner tuning procedure, whichever is later.

**F. Miscellaneous Requirements**

1. The following source is subject to the applicable provision of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR part 60.

**Shelly Materials Plant 92**

**PTI Application: 01-01342**

**Issued: To be entered upon final issuance**

**Facility ID: 0125041880**

**Emissions Unit ID: P901**

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
P901	480 tph asphalt batch plant	Subpart I

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

1. Construction date (no later than 30 days after such date);
2. Actual start-up date (within 15 days after such date); and
3. 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

Central District Office  
Division of Air Pollution Control  
3232 Alum Creek Drive  
Columbus, OH 43207

2. The terms and conditions of this PTI are federally enforceable.
3. This PTI replaces Air permit To Install number 01-1756, as issued on February 10, 1998.
4. 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 require the permittee to apply for and obtain a new permit to install.
5. Burner Tuning Form (see next page)

**Shelly Materials Plant 92**  
**PTI Application: 01-01342**  
**Issued: To be entered upon final issuance**

**Facility ID: 0125041880**  
**Emissions Unit ID: P901**

BURNER TUNING REPORTING FORM FOR ASPHALT CONCRETE PLANTS	
Facility ID:	Tuning Date:
Legal Name:	Other Company Name (if different than legal name):
Mailing Address:	Other Company Site Address: (if different than mailing address):
City, State, Zip Code:	Other Company City, County, Zip Code:
Site Contact Person:	Site Contact Telephone Number:
Site Contact Title:	Site Contact Fax Number:
Name of company performing tuning:	Name of company performing emission monitoring:
Type of plant (ie: batch, drum mix, etc.):	Calibration date for analyzers:

Reason for Tuning:  Season Initial Tuning  June Tuning  September Tuning  Fuel Switch  Other (describe)

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Fuel employed during tuning:  Natural Gas  #2 Fuel Oil  #4 Fuel Oil  Used Oil  Other (describe)

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**Tuning Results:**

Parameter	Recent Stack Test Pollutant Baseline Levels <sup>1</sup>	Results	
		Pre Tuning	Post Tuning <sup>3</sup>
Fuel flow to the burner (gallon/hr) (for fuel oil and on-spec used oil)			
Fuel pressure (psi)			
For burners that require compressed air for proper operation, pressure at the burner (psi)			
Carbon Monoxide (CO) concentrations (ppm) <sup>2</sup>			
NOx concentrations (ppm) <sup>2</sup>			
Oxygen concentrations (%) <sup>2</sup>			
Asphalt Production (tons/hr)			

<sup>1</sup>These values are based on the results of the most recent Ohio EPA approved emissions test.

<sup>2</sup> Specify whether on a dry or wet basis.

<sup>3</sup> If the burner did not require adjusting, please record N/A in the post tuning column.

Describe in detail a list of adjustments and/or repairs made to bring the operating parameters into conformance with the manufacturers specifications. Use additional paper if necessary.

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**Shelly Materials Plant 92**

**PTI Application: 01-01342**

**Issued: To be entered upon final issuance**

**Facility ID: 0125041880**

**Emissions Unit ID: P901**

Authorized Signature: This signature shall constitute personal affirmation that all statements or assertions of fact made in this form are true and complete, comply fully with applicable state requirements, and shall subject the signatory to liability under applicable state laws forbidding false or misleading statements.

Name of Official (Printed or Typed):	Title of Official and Phone Number:
Signature of Official:	Date: