

Synthetic Minor Determination and/or Netting Determination
Permit To Install 05-11320
Shelly Materials Plant 20

A. Source Description

Shelly Materials Plant 20 is a 260 TPH batch hot mix asphalt (HMA) plant which employs used oil as the primary fuel.

B. Facility Emissions and Attainment Status

This facility is located in an attainment area. Facility emissions include PM, CO, NO_x, SO₂, CH₄, VOC, and HAP emissions from the asphalt plant (P902) and fugitive particulate emissions from associated roadways (not included in this PTI).

C. Source Emissions

The calculated maximum uncontrolled potential emissions for CO, NO_x, and SO₂ from emissions unit P902 are 513.6 TPY, 136.66 TPY, and 113.88 TPY, respectively. Therefore, Shelly Asphalt Plant 20 is a Title V facility based upon potential to emit. However, this PTI limits the rolling, 12-month production of hot mix asphalt for emissions unit P902 to 400,000 tons. This production limit reduces the potential emissions for CO, NO_x, and SO₂ emissions to 90.2, 24.0, and 20.0 TPY, respectively. Consequently, the rolling, 12-month HMA production limitation effectively limits potential emissions below the Title V major source threshold.

D. Conclusion

This PTI limits annual emissions of all pollutants to below major source thresholds through the annual production rate limitation of 400,000 TPY HMA. Compliance with this production rate limit is achieved through monitoring and record keeping. Compliance with the mass emissions limitations is determined through compliance testing and calculations using emission factors from AP-42, Volume 1, Fifth Edition, 12/00.



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
LOGAN COUNTY
Application No: 05-11320**

CERTIFIED MAIL

DATE: 4/5/2001

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

Shelly Materials Plant 20
Larry Shively
PO Box 266/Attn: Beth Mowrey 8775 Blackbird Lane
Thornville, OH

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 **\$1000** 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.

Very truly yours,

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

cc: USEPA SWDO IN



Permit To Install

Issue Date: To be entered upon final issuance

Terms and Conditions

Effective Date: To be entered upon final issuance

DRAFT PERMIT TO INSTALL 05-11320

Application Number: 05-11320

APS Premise Number: 0546000003

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

Name of Facility: Shelly Materials Plant 20

Person to Contact: Larry Shively

Address: PO Box 266/Attn: Beth Mowrey 8775 Blackbird Lane
Thornville, OH 43076

Location of proposed air contaminant source(s) [emissions unit(s)]:

1558 County Road 105

Belle Center, Ohio

Description of proposed emissions unit(s):

260 TPH Batch Mix Asphalt Plant (Modification to PTI 05-1753).

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 Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the 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 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 application must be made to the Director for the installation or modification of any other emissions unit(s).

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

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

granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the source(s) covered by this permit.

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>
PE	10.52
CO	90.2
NO _x	24.0
SO ₂	20.0
VOC	10.75
CH ₄	1.53

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>
P902 - 260 TPH Batch Mix Asphalt Plant with Used Oil as the main fuel source (Terms in this permit supersede those identified in PTI 05-1753 issued on 7/23/86)	OAC rule 3745-31-05(A)(3)	<p>10.52 TPY particulate emissions (PE), based upon a rolling, 12-month summation of the monthly emissions.</p> <p>117.3 lbs/hr and 90.2 TPY carbon monoxide (CO), based upon a rolling, 12-month summation of the monthly emissions.</p> <p>31.2 lbs/hr and 24.0 TPY nitrogen oxides (NOx), based upon a rolling, 12-month summation of the monthly emissions.</p> <p>26.0 lbs/hr and 20.0 TPY sulfur dioxide (SO₂), based upon a rolling, 12-month summation of the monthly emissions.</p> <p>14.0 lbs/hr and 10.75 TPY volatile organic compounds (VOC), based upon a rolling, 12-month summation of the monthly emissions.</p> <p>2.0 lbs/hr and 1.53 TPY methane (CH₄), based upon a rolling, 12-month summation of the monthly emissions.</p> <p>See A.2.b for used oil specifications</p>

The requirements of this rule also include compliance with the requirements of 40 CFR Part 60,

		Subpart I
		No visible emissions of Fugitive Dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper
	NSPS (40 CFR Part 60, Subpart I)	Particulate emissions shall not exceed 0.04 grain per dry standard cubic foot of exhaust gases.
		Visible particulate emissions shall not exceed 20 percent opacity, as a 6-minute average, from the stack, except as provided by 40 CFR Part 60.11.
	OAC rule 3745-17-07(A), and 3745-17-11(B)	The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to 40 CFR, Part 60, Subpart I.
	OAC rule 3745-17-08	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
Aggregate storage bins and cold aggregate elevator	OAC rule 3745-31-05(A)(3)	Visible emissions of fugitive dust shall not exceed 10 percent 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 elevator loading area.
		The aggregate loaded into the storage bins shall have a moisture content sufficient to eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer.
	OAC rule 3745-17-08	The limitations specified by this rule are less stringent than the limitations

<p>OAC rule 3745-35-07(B) (Synthetic Minor to avoid Title V)</p>	<p>established pursuant to OAC rule 3745-31-05(A)(3).</p> <p>90.2 TPY carbon monoxide (CO), based upon a rolling, 12-month summation of the monthly emissions.</p> <p>24.0 TPY nitrogen oxides (NO_x), based upon a rolling, 12-month summation of the monthly emissions.</p> <p>20.0 TPY sulfur dioxide (SO₂)₂ based upon a rolling, 12-month summation of the monthly emissions.</p> <p>See B.2.</p>
---	--

2. Additional Terms and Conditions

- 2.a** In accordance with OAC rule 3745-31-05, this emissions unit has been approved for the use of recycled asphalt products.
- 2.b** All recycled, used oil burned in emissions unit P902 shall meet the following specifications:

<u>Contaminant/Property</u>	<u>Allowable Specifications</u>
arsenic	5 ppm, maximum
cadmium	2 ppm, maximum
chromium	10 ppm, maximum
lead	100 ppm, maximum
PCB's	10 ppm, maximum*
total halogens	4000 ppm maximum
mercury	1 ppm, maximum
flash point	100°F, minimum
heat content	135,000 Btu/gallon, minimum

* If the permittee is burning used oil with any quantifiable level (2 ppm) of PCB's, then the permittee is subject to the notification requirements of 40 CFR 279.62.

- 2.c** Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under 40 CFR Part 266.40(c) and OAC rule 3745-279. Therefore, the permittee may receive and burn used oil exceeding 1000 ppm of total halogens (but less than 4000 ppm, maximum) only if the supplier [”marketer” in 40 Part CFR 266.43(a)] has demonstrated to the Ohio EPA’s Division of Hazardous Waste Management that the used oil does not contain any hazardous waste.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 8 inches of water while the emissions unit is in operation.
2. The maximum annual hot mix asphalt production rate for this emissions unit shall not exceed 400,000 tons, based upon a rolling, 12-month summation of the production rates.

Given that the facility has monthly production records for this emissions unit, compliance shall begin immediately following final issuance of this PTI. Therefore, no monthly restrictions for the first 12-months of operation, following the issuance of this permit, are required.

3. The permittee may not receive or burn any 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.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall receive a chemical analysis with each shipment of used oil from the supplier. The analysis shall identify the name and address of the supplier, the supplier's USEPA identification number, and the following information:
 - a. The date of shipment or delivery.
 - b. The quantity of used oil received.
 - c. The Btu value of the used oil, in BTU/gallon.
 - d. The flash point of the used oil in degrees F.
 - e. The arsenic content, in ppm.
 - f. The cadmium content, in ppm.
 - g. The chromium content, in ppm.
 - h. The lead content, in ppm.
 - i. The PCB content, in ppm.
 - j. The total halogen content, in ppm.
 - k. The mercury content, in ppm.

Each analysis shall be kept in a readily accessible location for at least 5 years and shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon verbal or written request. The Director or any authorized representative of the Director may require or may conduct periodic, detailed chemical analyses through an independent laboratory of any used oil shipment received by this facility, of any used oil stored at this facility, or of any used oil sampled at the dryer.

2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual. The permittee shall record the pressure drop across the baghouse on a continuous basis.
3. The permittee shall maintain monthly records of the following information:
 - a. The production rate for each month.
 - b. The rolling, 12-month summation of the production rates.
4. The permittee shall perform daily 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, vibrating screens, weigh hopper, aggregate storage bins and cold aggregate elevator associated with this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and,
 - e. any corrective actions taken to eliminate the abnormal visible emissions.

The permittee may, upon receipt of written approval from the Ohio EPA Southwest 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.

5. The permittee shall sample each incoming shipment of used oil. The sampling frequency for used oil shall be one properly labeled 100 ml sample for each truck or container delivery. The sample shall be taken and retained for at least 60 days.

The Director (appropriate Ohio EPA District Office or local air agency) may require and/or conduct periodic, detailed chemical analyses through an independent laboratory of any used oil received at this facility; of any sample retained, as required above; and of any storage tanks at this facility.

D. Reporting Requirements

1. The permittee shall notify the USEPA and the Ohio EPA if any of the used oil exceeds the used oil specifications found in OAC rule 3745-279-11. If the permittee is burning used oil which exceeds the specifications found in OAC rule 3745-279-11, the permittee is subject to that rule and must comply with all provisions of that rule.
2. 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 Conditions of this permit under section (A)(2).
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month production rate limitation (400,000 tons). These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).
4. The permittee shall submit quarterly deviation (excursion) reports which:
 - a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit, and,
 - b. describe any corrective actions taken to eliminate the 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).

5. Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:
 - a. construction date (no later than 30 days after such date);
 - b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
 - c. actual start-up date (within 15 days after such date); and
 - d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

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

and

Shelly Materials Plant 20
PTI Application: 05-11320
Issued: To be entered upon final issuance

Facility ID: 0546000003
Emissions Unit ID: P902

Southwest District Office
Division of Air Pollution Control
401 East Fifth Street
Dayton, OH 45402-2911

E. Testing Requirements

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

1. Emissions Limitations:
0.04 gr/dscf PE
117.3 lbs/hr CO
26.0 lbs/hr SO₂
14.0 lbs/hr VOC

Applicable Compliance Methods:

Within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but no later than 180 days after initial startup of the emissions unit, the permittee shall conduct, or have conducted, an emissions test for this emissions unit in order to demonstrate compliance with the allowable mass emission rate for particulate matter. The particulate test shall be conducted in accordance with the test methods and procedures specified in Methods 1-5 of 40 CFR Part 60, while the emissions unit is operating at or near maximum capacity and using virgin materials

Within three months of issuance of this permit, the permittee shall conduct, or have conducted, an emission tests for this emissions unit in order to demonstrate compliance with the allowable mass emission rates for carbon monoxide (CO), sulfur dioxide (SO₂) and volatile organic compounds (VOC). The VOC test shall be conducted in accordance with the test methods and procedures specified in Method 25 of 40 CFR Part 60. The CO test shall be conducted in accordance with the test methods and procedures specified in Method 10 of 40 CFR Part 60. The SO₂ test shall be conducted in accordance with the test methods and procedures specified in Method 6 of 40 CFR Part 60. All tests shall be conducted while the emissions unit is operating at or near maximum capacity, burning used oil and using recycle products.

Not later than 30 days prior to the proposed test dates, the permittee shall submit an "Intent to Test" notification. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the test(s) may result in the field office's refusal to accept the results of the emissions tests.

Personnel from the Ohio EPA District Office or local air agency shall be permitted to witness the tests, examine the testing equipment and acquire data and information regarding the emissions unit operating parameters.

Shelly Materials Plant 20
PTI Application: 05-11320
Issued: To be entered upon final issuance

Facility ID: 0546000003
Emissions Unit ID: P902

A comprehensive written report on the results of the emission test) shall be submitted within 30 days following completion of the tests.

2. Emissions Limitation:
31.2 lbs/hr NO_x

Applicable Compliance Method:

The mass emissions limitation was determined by multiplying the emission factor of 0.12 lb NO_x/ton (AP-42, Table 11.1-5, 12/00) by the maximum hourly production rate of 260 tons. If required, compliance shall be based on conducting a stack test in accordance with USEPA Reference Method 7 or 7A (as appropriate), of 40 CFR Part 60, Appendix A.

3. Emissions Limitation:
2.0 lbs/hr CH₄

Applicable Compliance Method:

The mass emissions limitation was determined by the following:

- a. calculate CH₄ emissions from the dryer by multiplying the emission factor 0.0074 lb CH₄/ton (AP-42, Table 11.1-6, 12/00) by the maximum hourly production rate of 260 tons;
 - b. calculate the Post-dryer CH₄ emissions by determining the total organic compounds (TOC) emissions with the equation in AP-42, Table 11.1-14 (12/00) and multiplying the result by 6.5% (Table 11.1-16, 12/00); and
 - c. sum the results of a. and b.
4. Emissions Limitation:
10.52 tons PE per rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be determined by multiplying lb PE/ton of asphalt produced, as determined from emissions testing, multiplied by the tons of asphalt produced per rolling, 12-month summation, and convert pounds to tons by dividing the result by 2000 lb/ton.

5. Emissions Limitation:
90.2 tons CO per rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be determined by multiplying the pounds CO/ton of asphalt produced, as determined from emissions testing, multiplied by the tons of asphalt produced per rolling, 12-month summation, and convert pounds to tons by dividing the result by 2000 lb/ton.

6. Emissions Limitation:
24.0 tons NO_x per rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be determined by multiplying the emission factor of 0.12 lb NO_x/ton (AP-42, Table 11.1-5, 12/00) by the maximum annual production rate of 400,000 tons, and converting pounds to tons by dividing the result by 2000 lbs/ton. If required, compliance shall be based on conducting a stack test in accordance with USEPA Reference Method 7 or 7A (as appropriate), of 40 CFR Part 60, Appendix A.

7. Emissions Limitation:
20.0 tons SO₂ per rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be determined by multiplying the pounds SO₂/ton of asphalt produced, as determined from emissions testing, multiplied by the tons of asphalt produced per rolling, 12-month summation, and convert pounds to tons by dividing the result by 2000 lb/ton.

8. Emissions Limitation:
10.75 tons VOC per rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be determined by multiplying the pounds VOC/ton of asphalt produced, as determined from emissions testing, multiplied by the tons of asphalt produced per rolling, 12-month summation, and convert pounds to tons by dividing the result by 2000 lb/ton.

9. Emissions Limitation:
8.70 tons CH₄ per rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be determined by:

- a. calculate CH₄ emissions from the dryer by multiplying the emission factor 0.0074 lb CH₄/ton (AP-42, Table 11.1-6, 12/00) by the maximum annual production rate of 400,000 tons;
- b. calculate the Post-dryer CH₄ emissions by determining the total organic compounds (TOC) emissions with the equation in AP-42, Table 11.1-14 (12/00) and multiplying the result by 6.5% (Table 11.1-16, 12/00); and
- c. sum the results of a. and b, and convert pounds to tons by dividing the result by 2000 lb/ton.

10. Emissions Limitation:
No visible emissions of Fugitive Dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper.

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the method and procedures specified in USEPA Reference Method 9.

Compliance shall also be demonstrated through the Monitoring and Record keeping Requirements specified in section C.4.

11. Emissions Limitation:
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, from the stack, except as provided by 40 CFR Part 60.11

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

12. Emissions Limitation:
Visible emissions of fugitive dust from aggregate storage bins and cold aggregate elevators shall not exceed 10% opacity, as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the method and procedures specified in USEPA Reference Method 9. Compliance shall also be demonstrated through the Monitoring and Record keeping Requirements specified in section C.4.

13. Compliance with the used oil specifications in Term B. shall be demonstrated by the record keeping in Term C.1.

F. Miscellaneous Requirements

1. 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.

NEW SOURCE REVIEW FORM B

PTI Number: 05-11320

Facility ID: 0546000003

FACILITY NAME Shelly Materials Plant 20

FACILITY DESCRIPTION 260 TPH Batch Mix Asphalt Plant (Modification to PTI 05-1753) CITY/TWP Belle Center

SIC CODE 2951 SCC CODE 30500201, 30500202, 30500204, 30500216, 30500217 EMISSIONS UNIT ID P902

EMISSIONS UNIT DESCRIPTION 260 TPH Batch Mix Asphalt Plant (Terms in this permit supersede those identified in PTI 05-1753 issued on 7/23/86)

DATE INSTALLED 4/30/2001

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.04 gr/dscf	10.52	0.04 gr/dscf	10.52
PM ₁₀					
Sulfur Dioxide	attainment	26.0 lbs/hr	20.0	26.0 lbs/hr	20.0
Organic Compounds	attainment	14.0 lbs/hr	10.75	14.0 lbs/hr	10.75
Nitrogen Oxides	attainment	31.2 lbs/hr	24.0	31.2 lbs/hr	24.0
Carbon Monoxide	attainment	117.3 lbs/hr	90.2	117.3 lbs/hr	90.2
Lead					
Other: Air Toxics	Methane	2.0 lbs/hr	1.53	2.0	1.53

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? **Subpart I** PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

BAT is compliance with applicable rules and limitations, compliance with used oil specifications, compliance with the rolling, 12-month production limitation, employment of a baghouse, and compliance with monitoring, record keeping and reporting requirements.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES X NO

IDENTIFY THE AIR CONTAMINANTS: _____