



State of Ohio Environmental Protection Agency

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

**CERTIFIED MAIL**

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 13-03945**

**DATE:** 7/25/2002

Cuyahoga Road Products  
Steven Alex  
2100 W Third St  
Cleveland, OH 44113

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

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

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

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

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

cc: USEPA

CBAPC



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**Permit To Install  
Terms and Conditions**

**Issue Date: 7/25/2002  
Effective Date: 7/25/2002**

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**FINAL PERMIT TO INSTALL 13-03945**

Application Number: 13-03945  
APS Premise Number: 1318007398  
Permit Fee: **\$1000**  
Name of Facility: Cuyahoga Road Products  
Person to Contact: Steven Alex  
Address: 2100 W Third St  
Cleveland, OH 44113

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**2100 W Third St  
Cleveland, Ohio**

Description of proposed emissions unit(s):  
**CH 31 modification of hot mix asphalt plant to include the use of alternative fuels --P901.**

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 Record keeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping 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 record keeping 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

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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**

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 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 emissions unit(s) covered by this permit.

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**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>
PM	23.31
PM <sub>10</sub>	1.62
SO <sub>2</sub>	34.8
NO <sub>x</sub>	33.0
VOC	19.2
CO	78.0
Formaldehyde	1.86

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

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P901 - 300 TPH Gencor Portable Drum Mix Asphalt Plant modification to include the use of No. 2 fuel oil and on-spec waste oil as alternative fuels in this emissions unit.	OAC rule 3745-31-05(A)(3)
Aggregate Handling Operations	40 CFR Part 60, Subpart I
	OAC rule 3745-17-11(B)

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	<u>Applicable Emissions Limitations/Control Measures</u>	
OAC rule 3745-17-07(A)(1)	9.9 lbs/hr PM, 19.8 TPY 16.5 lbs/hr NO <sub>x</sub> , 33.0 TPY 39.0 lbs/hr CO	The TPY emissions limits are based upon the annual asphalt production restriction of Section B.1.  See Section B.2.
OAC Rule 3745-35-07(B) Synthetic Minor to avoid Title V Status	9.6 lbs/hr VOC, 19.2 TPY 17.4 lbs/hr SO <sub>2</sub> , 34.8 TPY 0.93 lb/hr Formaldehyde, 1.86 TPY  See Sections B.3. and B.4.	PM 3.51 TPY PM <sub>10</sub> 1.62 TPY  best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c through A.2.e)
OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and 3745-35-07(B).  The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(B)(1).  The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-08(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).  Visible particulate emissions shall not exceed 20 percent opacity as a six-minute average from the stack, except as provided by rule.	Visible particulate emissions of fugitive dust shall not exceed 20 percent opacity as a three-minute average.
OAC rule 3745-17-07(B)(1)	78.0 TPY CO*  * as a 12-month rolling summation	

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**2. Additional Terms and Conditions**

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limitations, production limitations, use of a baghouse and compliance with the Ohio EPA's Air Toxics Policy.
- 2.b** The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:  
 -transfer points of material  
 -aggregate conveyor screening  
 -weight hopper loading
- 2.c** The permittee shall employ best available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall minimize the drop height of the front end loader bucket to the extent possible in order to minimize or eliminate fugitive dust. The aggregate loaded into the storage bins shall have a moisture content sufficient to eliminate the visible emissions from elevators, aggregate screening points and transfer points to the dryer. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- 2.e** Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.
- 2.f** All recycled, used oil burned in P901 shall meet the following specifications:

<u>Contaminant/Property</u>	<u>Allowable Specification</u>
Arsenic	5 ppm, maximum
Cadmium	2 ppm, maximum

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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.

\*\*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 CFR 266.43(a)] has demonstrated to the Ohio EPA's Division of Solid and Hazardous Waste Management that the used oil does not contain any hazardous waste.

## **B. Operational Restrictions**

1. The maximum annual production rate for this emissions unit shall not exceed 1,200,000 TPY based upon a rolling, 12-month summation of the production rates.
2. To ensure enforceability during the first 12 calendar months of operation following the startup of the modified emissions unit, the permittee shall not exceed the production level specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Production in Tons</u>
1	100,000
1-2	200,000
1-3	300,000
1-4	400,000
1-5	500,000
1-6	600,000
1-7	700,000
1-8	800,000

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1-9	900,000
1-10	1,000,000
1-11	1,100,000
1-12	1,200,000

After the first 12 calendar months of operation following the startup of the modified emissions unit, compliance with the annual production rate limitation shall be based upon a rolling, 12-month summation of the production rates.

3. To ensure the baghouse is operated according to the manufacturer's specifications and to maintain compliance with the allowable particulate emission rate, a pressure drop across the baghouse of not less than 3 or greater than 8 inches of water shall be maintained at all times.
4. Fuel Usage: The permittee reserves the right to burn natural gas, No. 2 fuel oil, and waste oil. All fuel shall contain no more than 0.50% sulfur content, by weight.

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**C. Monitoring and/or Record keeping Requirements**

1. The permittee shall properly install, operate and maintain a monitoring device capable of accurately measuring the pressure drop across the baghouse.
2. The permittee shall check the pressure drop once per shift and maintain daily records of the pressure drop readings.
3. The permittee shall maintain monthly records of the following information:
  - a. The production rate for each month.
  - b. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the production rates.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative production rate for each calendar month.

4. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform daily inspections of such operations.
5. The above-mentioned inspections shall be performed during representative, normal operating conditions.
6. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
7. The permittee shall maintain records of the following information to demonstrate compliance with the terms A.2.c and A.2.d of this permit:
  - a. The date and reason any required inspection was not performed;
  - b. The date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
  - c. The dates the control measure(s) was (were) implemented; and
  - d. On a calendar quarter basis, the total number of days the control measure(s) was (were)

implemented.

The information in 7.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

8. 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, and
  - 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.

9. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analysis for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.
10. The permit to install for this emissions unit P901 was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case"

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pollutant(s):

Pollutant: Formaldehyde

TLV (mg/m<sup>3</sup>): 0.37

Maximum Hourly Emission Rate (lbs/hr): 0.93

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m<sup>3</sup>): 3.231

MAGLC (ug/m<sup>3</sup>): 8.77

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

- a. Changes in the composition of the materials used, or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
  - b. Changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
  - c. Physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
- 11.** If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

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

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

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the above-mentioned allowable pressure drop range.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month production rate limitation and, for the first 12 calendar months of operation following the startup of the modified emissions unit, all exceedances of the maximum allowable cumulative production levels.
3. The permittee shall submit deviation reports that identify any of the following occurrences with regard to C.7 of this permit:
  - a. Each day during which an inspection was not performed by the required frequency; and
  - b. Each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
4. The permittee shall submit deviation (excursion) reports which identify all exceedances of the sulfur content limitation for oil combusted in this emissions unit.
5. The permittee shall submit deviation (excursion) reports which identify each day when a fuel other than the fuels listed in Section B.4. was burned in this emissions unit.
6. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
7. 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 within 5 days of occurrence. 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 and all applicable regulations pertaining to the burning of waste oil.

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8. The permittee shall submit annual reports which specify the asphalt production rate (in tons) and the PM, NO<sub>x</sub>, SO<sub>2</sub>, OC and CO emissions for emissions unit P901 for the previous calendar year. For the first 12 calendar months following the startup of the modified emissions unit P901, these reports shall include the cumulative asphalt production rate for each calendar month in the reporting period. Beginning after the first 12 calendar months following the startup of the modified emissions unit P901, these reports shall include the rolling, 12-month summations of asphalt production rate and asphalt production rate using oil for each calendar month in the reporting period. These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 60 days after achieving maximum production but no later than 180 days after start-up.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable PM, CO, NO<sub>x</sub>, SO<sub>2</sub>, and VOC emission rates and the visible emissions limitation while burning on-spec used oil, and using only virgin aggregate materials of limestone and sand with asphalt cement grade AC-20. In the event recycled asphalt fines will be used with asphalt cement grade AC-10 or AC-5 for the manufacturing of asphalt mix, a new stack test must be performed to show compliance with the particulate emissions and in order to determine the levels of VOC emissions associated with the AC-10 and AC-5 asphalt cement. A certified laboratory analysis of the volatile and/or loss at 350 degrees F and Flash point of the different grade of asphalt cements must be submitted to the Cleveland Bureau of Air Pollution Control.
  - c. During the emission testing, the production rate, in tons product/hr, shall be determined.
  - d. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) while burning on-spec used oil:

<u>Allowable Emissions Rates</u>	<u>Test Methods*</u>
lb PM/hr	5 or 5A
20% opacity as a six-minute average from any stack	9
20% opacity as a three-minute average from fugitive PM	9
lb CO/hr	10
lb NO <sub>x</sub> /hr	7
lb SO <sub>2</sub> /hr	6
lb VOC/hr	25

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

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

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency.

The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates(s) of the test(s), and

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the person(s) who will be conducting the test(s).

Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emissions test(s).

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

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

2. Emission Limitation -  
9.9 lbs/hr of PM  
19.8 TPY of PM

Applicable Compliance Method -

See E.1. The TPY emission rate shall be determined by calculating the short term emission factor, determined by dividing the short term emission rate (in lbs/hr) by the production rate (in tons product/hr), established during the emission testing. This emission factor (in lbs PM/ton product) shall be multiplied by the actual annual production rate and (1 ton/2000 lbs).

3. Emission Limitation -  
20% opacity, as a six-minute average (stack emissions)

Applicable Compliance Method(s) -

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

4. Emission Limitation -  
16.5 lbs/hr of NO<sub>x</sub>  
33.0 TPY of NO<sub>x</sub>

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Applicable Compliance Method -

See E.1. The TPY emission rate shall be determined by calculating the short term emission factor, determined by dividing the short term emission rate (in lbs/hr) by the production rate (in tons product/hr), established during the emission testing. This emission factor (in lbs PM/ton product) shall be multiplied by the actual annual production rate and (1 ton/2000 lbs).

5. Emission Limitation -  
39.0 lbs/hr of CO  
78.0 TPY of CO as a 12-month rolling summation

Applicable Compliance Method -

See E.1. The TPY emission rate shall be determined by calculating the short term emission factor, determined by dividing the short term emission rate (in lbs/hr) by the production rate (in tons product/hr), established during the emission testing. This emission factor (in lbs PM/ton product) shall be multiplied by the actual annual production rate and (1 ton/2000 lbs).

6. Emission Limitation -  
9.6 lbs/hr of VOC  
19.2 TPY of VOC

Applicable Compliance Method -

See E.1. The TPY emission rate shall be determined by calculating the short term emission factor, determined by dividing the short term emission rate (in lbs/hr) by the production rate (in tons product/hr), established during the emission testing. This emission factor (in lbs PM/ton product) shall be multiplied by the actual annual production rate and (1 ton/2000 lbs).

7. Emission Limitation -  
17.4 lbs/hr of SO<sub>2</sub>  
34.8 TPY of SO<sub>2</sub>

Applicable Compliance Method -

See E.1. The TPY emission rate shall be determined by calculating the short term emission factor, determined by dividing the short term emission rate (in lbs/hr) by the production rate (in tons product/hr), established during the emission testing. This emission factor (in lbs PM/ton product) shall be multiplied by the actual annual production rate and (1 ton/2000 lbs).

8. Emission Limitation -  
0.93 lb/hr of Formaldehyde  
1.86 TPY of Formaldehyde

Applicable Compliance Method -

Compliance with the short term limit shall be based upon multiplying the maximum capacity of the emissions unit (300 TPH) by the emission factor (in lb/ton) from AP-42 "Compilation of Air Pollutant Emission Factors", Table 11.1-10 (12/00) for formaldehyde. Compliance with the annual limit shall be determined by multiplying the short term emission rate by the annual

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production restriction (1,200,000 TPY), dividing by the maximum capacity of the emissions unit (300 TPH) and dividing by 2000 lbs/ton

9. Emission Limitation - aggregate material handling emissions  
 20% opacity, as a three-minute average for fugitive dust emissions

Applicable Compliance Method -

Compliance with the visible emission limitation for the aggregate handling operation(s) identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

10. Emission Limitation - aggregate material handling emissions  
 3.51 TPY of PM

Applicable Compliance Method -

Compliance with the PM emission limits shall be determined by the following equation:

$$PM = EF \times 3 \times 1,200,000 \text{ tons/yr} \times 50\% \times (1 \text{ ton}/2000 \text{ lbs})$$

Where:

EF = calculated emission factors for PM derived from formulae listed in USEPA reference document AP-42, Fifth Edition, "Compilation of Air Pollutant Emission Factors", Section 13.2.4, (1/95). The total is 0.0039 lb/ton for all aggregates handled.

1,200,000 tons/yr - is the maximum amount of aggregates used in the production of 1,200,000 tons/yr of asphalt.

3 - is a multiplier factor to include emissions points resulting from the following material handling operations; front-end loading, aggregate screening and transfer points.

50% - is the assumed emission control efficiency, by weight.

11. Emission Limitation - aggregate material handling emissions  
 1.62 TPY of PM<sub>10</sub>

Applicable Compliance Method -

Compliance with the PM<sub>10</sub> emission limits shall be determined by the following equation:

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$$PM_{10} = EF \times 3 \times 1,200,000 \text{ tons/yr} \times 50\% \times (1 \text{ ton}/2000 \text{ lbs})$$

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Where:

EF = calculated emission factors for PM<sub>10</sub> derived from formulae listed in USEPA reference document AP-42, Fifth Edition, "Compilation of Air Pollutant Emission Factors", Section 13.2.4, (1/95). The total is 0.0018 lb/ton for all aggregates handled.

1,200,000 tons/yr - is the maximum amount of aggregates used in the production of 1,200,000 tons/yr of asphalt.

3 - is a multiplier factor to include emissions points resulting from the following material handling operations; front-end loading, aggregate screening and transfer points.

50% - is the assumed emission control efficiency, by weight.

12. The compliance testing required in E.1 shall also comply with the requirements of 40 CFR 60.93.

#### **F. Miscellaneous Requirements**

1. Odor Prevention:

The emissions from this emissions unit are prohibited from causing a nuisance in violation of OAC rule 3745-15-07. If the Director determines that the emissions from this emissions unit are contributing to a nuisance, the permittee, upon notification by Ohio EPA, shall immediately undertake a program to reduce emissions or the impact of the emissions to achieve compliance with OAC rule 3745-15-07.

2. Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:
  - a. The portable emissions unit is equipped with the best available control technology for such portable emissions unit;
  - b. The portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
  - c. The applicant has provided proper notice of intent to relocate the portable emissions unit to the Cleveland Bureau of Air Pollution Control and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
  - d. In the Cleveland Bureau of Air Pollution Control's and the appropriate field office's

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judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

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3. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:
  - a. The portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
  - b. The portable emissions unit is equipped with best available technology;
  - c. The portable emission unit owner has identified the proposed site to Ohio EPA;
  - d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
  - e. A public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
  - f. The owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to the proposed site; and
  - g. The portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.
4. Any site approvals issued by the Ohio EPA, pursuant to F.3 above, shall be valid for no longer than three years and are subject to renewal.

In order for the Cleveland Bureau of Air Pollution Control and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Cleveland Bureau of Air Pollution Control (1925 St. Clair Ave., Cleveland, OH 44114) and the appropriate office having jurisdiction over the new site. Upon receipt of the notice, the Cleveland Bureau of Air Pollution Control and/or the appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

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

5. With the exception of C.11 and C.12 all of the terms and conditions of this permit to install are

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federally enforceable.

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

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

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

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

Reports are to be sent to:

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

and

The Cleveland Bureau of Air Pollution Control  
1925 St. Clair Ave.  
Cleveland, Ohio 44114

7. The terms in this permit supercede those identified in PTI 1301552, for this emissions unit, issued May 14, 1986.