State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL** **CERTIFIED MAIL**
**MAHONING COUNTY**

Street Address: Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329 Mailing Address: Lazarus Gov. Center

**Application No:** 02-14896

**DATE:** 7/24/2001

Northern Ohio Paving
Larry Shively
PO Box 266 8775 Blackbird Lane
Thornville, OH 43076

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

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

**CC: USEPA** **NEDO**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install**

**FINAL PERMIT TO INSTALL 02-14896**

| | |
|---|---|
| Application Number: | 02-14896 |
| APS Premise Number: | 0250001000 |
| Permit Fee: | **$400** |
| Name of Facility: | Northern Ohio Paving |
| Person to Contact: | Larry Shively |
| Address: | PO Box 266 8775 Blackbird Lane<br>Thornville, OH 43076 |

Location of proposed air contaminant source(s) [emissions unit(s)]:
**1661 Bailey Rd**
**North Jackson, Ohio**

Description of proposed emissions unit(s):
**Relocation of Allied Corp. Plant 74; change to permanent location; use of used oil as fuel source.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. State and Federally Enforceable Permit To Install General Terms and Conditions

#### 1. Monitoring and Related Recordkeeping and Reporting Requirements

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

i. The date, place (as defined in the permit), and time of sampling or measurements.

ii. The date(s) analyses were performed.

iii. The company or entity that performed the analyses.

iv. The analytical techniques or methods used.

v. The results of such analyses.

vi. The operating conditions existing at the time of sampling or measurement.

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

c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:

i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

ii. Quarterly written reports of (i) any deviations from federally enforceable <u>emission limitations</u>, <u>operational restrictions</u>, <u>and control device operating parameter limitations</u>, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous

calendar quarters. See B.10 below if no deviations occurred during the quarter.

iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

**2. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.
Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

**3. Risk Management Plans**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

**4. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

**5. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

**6. General Requirements**

a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.

c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

d. This permit does not convey any property rights of any sort, or any exclusive privilege.

e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

**7. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit To Install fees within 30 days after the issuance of this Permit To Install.

**8. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are

required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

**9. Compliance Requirements**

a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.

iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.

ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

**10. Permit To Operate Application**

a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the source(s) covered by this permit.

**11. Best Available Technology**

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

## B. State Only Enforceable Permit To Install General Terms and Conditions

### 1. Compliance Requirements

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

### 2. Reporting Requirements 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 of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

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

### 3. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

### 4. 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.

### 5. 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.

**6. 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.

**7. 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.

**8. 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).

**9. 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.

**10. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

## C. Permit To Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)**

| Pollutant | Tons Per Year |
|---|---|
| CO | 33.7 |
| $SO_2$ | 35.5 |
| $NO_x$ | 79.6 |
| VOCs | 19.6 |
| PE | 39.8 |

**Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**

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

NONE

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

NONE

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

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

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | |
|---|---|---|
| | | OAC rule 3745-17-11(B)(1) |
| P901 - 350 TPH standard Havens Asphalt Plant, Drum Mix. This unit has been designated as unit 74 by the facility. | OAC rule 3745-31-05 (A)(3) | |
| | | OAC rule 3745-18-06(D) |
| | 40 CFR 60 subpart I | |
| | OAC rule 3745-35-07(B) | |
| | OAC rule 3745-17-07(A)(1) | |

Applicable Emissions Limitations/Control Measures

CO: 19.3 lbs/hr, 33.7 tpy
$SO_2$: 20.3 lbs/hr, 35.5 tpy
$NO_x$: 45.5 lbs/hr, 79.6 tpy
OC: 11.2 lbs/hr, 19.6 tpy
PE: 22.8 lbs/hr, 39.8 tpy

The requirements of this rule also include compliance with the requirements of 40 CFR 60 subpart I.

PE: 0.04 gr/dscf

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average.

$NO_x$: 79.6 tons per rolling 12-month period

The visible particulate emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

**2.a** The permittee shall use only natural gas, #2 fuel oil, or 'on-spec' used oil as a fuel in this unit; 'off-spec' used oil (used oil that exceeds any of the limits established in A.2.b. of these terms and conditions) shall not be used in this unit.

**2.b** All 'on-spec' used oil burned in this emissions unit shall meet the following specifications:

| Contaminant/Property | Allowable Specifications |
|---|---|
| arsenic | 5 ppm, maximum |
| cadmium | 2 ppm, maximum |
| chromium | 10 ppm, maximum |
| lead | 100 ppm, maximum |
| PCB's | 2 ppm, maximum |
| total halogens | 4,000 ppm maximum |
| mercury | 1 ppm, maximum |
| flash point | 100°F, minimum |
| heat content | 138,000 Btu/gallon, minimum |

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

**2.d** 'On-spec' waste oil containing more than 1,000 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 3745-58-50. Therefore, the permittee may receive and burn used oil exceeding 1,000 ppm of total halogens (but less than 4,000 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 range across the baghouse shall be determined from the initial compliance stack emission test. Until the initial compliance stack emission test is conducted, however, the pressure drop across the baghouse shall be maintained within the range of 2.0 to 8.0 inches of water while the emissions unit is in operation.

2. The maximum annual operating hours for this emissions unit shall not exceed 3,500 hours, based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first 12 calendar months of operation, following the issuance of this permit, the permittee shall not exceed the operating hour levels specified in the following table:

| Months(s) | Maximum Allowable Cumulative Operating Hours |
|---|---|
| 1 | 420 |
| 1-2 | 840 |
| 1-3 | 1,260 |
| 1-4 | 1,680 |
| 1-5 | 2,100 |
| 1-6 | 2,520 |
| 1-7 | 2,940 |
| 1-8 | 3,360 |
| 1-9 | 3,500 |
| 1-10 | 3,500 |
| 1-11 | 3,500 |
| 1-12 | 3,500 |

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual operating hour limitation shall be based upon a rolling, 12-month summation of the operating hours.

3. The permittee may substitute recycled asphalt pavement (RAP) aggregates in the raw material feed.

4. The permittee shall burn 'on-spec' used oil or #2 fuel oil with a maximum sulfur content of 0.5% by weight.

## C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information:

   a. The operating hours 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 operating hours.

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

2. The permittee shall record the annual 12-month summation of asphalt produced (in tons).

3. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop

across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

4. The permittee shall maintain daily records of the percentage of RAP mixed with the raw material feed mix.

5. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of #2 fuel oil and 'on-spec' used 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.

6. For each shipment of oil (#2 fuel oil or 'on-spec' used oil) received for burning in this emissions unit, the permittee shall maintain records of the total quantity of each type of oil received and the permittee's or oil supplier's analysis for sulfur content and heat content.

7. The permittee shall receive a chemical analysis with each shipment of 'on-spec' used oil from the supplier or the permittee may perform their own analysis. The analysis shall identify the name and address of the supplier, the supplier's USEPA identification number (if available), and the following information:

   a. date of shipment or delivery,
   b. quantity of used oil received,
   c. the Btu value of the used oil,
   d. the flash point of the used oil,
   e. the arsenic content,
   f. the cadmium content,
   g. the chromium content,
   h. the lead content,
   i. the PCB content,
   j. the total halogen content, and
   k. the mercury content.

   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 and 'on-spec' used oil shipment received by this facility, of any 'on-spec' used oil stored at this facility, or of any 'on-spec' used oil sampled at the dryer.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify any exceedence of the above-mentioned allowable pressure drop range.

2. The permittee shall submit deviation (excursion) reports which identify any exceedence of the RAP percent limitation.

3. The permittee shall submit deviation (excursion) reports which identify any exceedence of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedences of the maximum allowable cumulative operating hours levels.

4. The permittee shall submit deviation (excursion) reports which identify any exceedence of the allowable sulfur content (percent).

5. These reports as denoted by terms D.1. - D.4. are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).

6. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of 'on-spec' used oil which is received for burning in this emissions unit, or a letter stating no 'on-spec' used oil was received that quarter, as appropriate. The permittee's or oil supplier's analysis shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

   a. the total quantity of oil received in each shipment (gallons);

   b. the weighted* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during the calendar month; and,

   c. the weighted* average heat content (Btu/gallon) of the oil received during the calendar month.

   *In proportion to the quantity of oil received in each shipment during the calendar month.

   These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

7. The permittee shall notify the USEPA and the Ohio EPA if any of the 'on-spec' used oil exceeds the 'on-spec' used oil specifications. An identification number from USEPA shall be obtained prior to the combustion of any used oil in exceedence of the limitations established in this permit

for 'on-spec' used oil.

**E. Testing Requirements**

1. Within the first 90 days after issuance of this permit, the permittee shall conduct an initial emissions stack test for particulate, $NO_x$, OC, CO, and $SO_2$, while burning 'on-spec' used oil. The test shall be performed using a RAP content that the permittee wishes to establish as the maximum allowable RAP content.
2. Emission Limitation:

   0.04 grain of particulate matter per dry standard cubic foot

   Applicable Compliance Method:

   Compliance shall be determined by emission testing as specified in section E.11.

3. Emission Limitation:

   22.8 pounds of particulate matter per hour

   Applicable Compliance Method:

   Compliance shall be determined by emission testing as specified in section E.11.

4. Emission Limitation:

   39.8 tons of particulate matter per year

   Applicable Compliance Method:

   Compliance shall be determined based upon the following formula:

   E = A*B [1 ton / 2,000 lbs]

   Where:
   E = particulate matter emission rate in tons per year.
   A = average emission rate in pounds PE per ton of asphalt produced from the most recent performance stack test.
   B = annual 12-month summation of asphalt produced (tons).

5. Emission Limitation:

   45.5 pounds of $NO_X$ per hour

   Applicable Compliance Method:

   Compliance shall be determined by emission testing as specified in section E.11.

6. Emission Limitation:

   79.6 tons of $NO_X$ per rolling 12-month period

Compliance shall be determined based upon the following formula:

E = A*B [1 ton / 2,000 lbs]

Where:
E = $NO_X$ emission rate in tons per year.
A = average emission rate in pounds $NO_X$ per ton of asphalt produced from the most recent performance stack test.
B = annual 12-month summation of asphalt produced (tons).

7. Emission Limitation:

19.3 pounds of CO per hour

Applicable Compliance Method:

Compliance shall be determined by emission testing as specified in section E.11.

8. Emission Limitation:

20.3 pounds of $SO_2$ per hour

Applicable Compliance Method:

Compliance shall be determined by emission testing as specified in section E.11.

9. Emission Limitation:

11.2 pounds of OC per hour

Applicable Compliance Method:

Compliance shall be determined by emission testing as specified in section E.11.

10. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average.

Applicable Compliance Method:

USEPA Method 9 of 40 CFR Part 60, Appendix A

11. 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 3 months after startup of this emissions unit.

    b. The test shall be performed while burning 'on-spec' used oil.

    c. The test shall be performed using the maximum RAP, as defined in term E.1. and 'on-spec' used oil.

    d. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates, $NO_X$, CO, OC, and $SO_2$.

    e. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

| | | |
|---|---|---|
| Particulates | - | Method 5 of 40 CFR Part 60, Appendix A |
| $NO_X$ | - | Method 7 , 7E of 40 CFR Part 60, Appendix A |
| CO | - | Method 10 of 40 CFR Part 60, Appendix A |
| OC | - | Method 18, 25, or 25A of 40 CFR Part 60, Appendix A |
| $SO_2$ | - | Method 6A of 40 CFR Part 60, Appendix A |

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

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

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

characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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

**F. Miscellaneous Requirements**

1 This PTI replaces any previous PTIs issued for this unit.

**B. State Only Enforceable Section**

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

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| P901 - 350 TPH standard Havens Asphalt Plant, Drum Mix. This unit has been designated as unit 74 by the facility. | | Compliance with Ohio EPA Air Toxics Policy |

**2. Additional Terms and Conditions**

**2.a** NONE

**II. Operational Restrictions**

NONE

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

NONE

**IV. Reporting Requirements**

NONE

**V. Testing Requirements**

NONE

**VI. Miscellaneous Requirements**

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.

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

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

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| T002 - 20,000 gallon storage tank for 'on-spec' used oil | OAC rule 3745-31-05(A)(3) | 0.1 ton per year of OC emissions<br><br>Submerged fill. |
| | OAC rule 3745-21-09(L) | Exempt (See Additional Terms and Conditions A.I.2.a.) |
| | 40 CFR 60, Subpart Kb | Record keeping (See Monitoring and/or Record keeping Requirement A.III.2) |

**2. Additional Terms and Conditions**

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

**II. Operational Restrictions**

1. The permittee shall only store 'on-spec' used oil in this emissions unit.

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

1. The permittee shall maintain records of the amount of 'on-spec' used oil stored in the tank.

2. In accordance with 40 CFR 60.116b (a) and (b), the owner and operator of this emissions unit

shall keep readily accessible records showing the dimensions of the emissions unit and an analysis showing the capacity of the emissions unit.

## IV. Reporting Requirements

NONE

## IV. Reporting Requirements

NONE

## V. Testing Requirements

Emission Limitation:
0.1 ton per year of OC emissions

Applicable Compliance Method:
To demonstrate compliance with the annual limit of 0.1 ton per year of OC emissions, the permittee shall calculate the annual OC emissions in ton per year using the most recent version of USEPA's tanks software (4.08 or later revision).

## VI. Miscellaneous Requirements

NONE

**B. State Only Enforceable Section**

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

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| T002 - 20,000 gallon storage tank for 'on-spec' used oil | | |

**2. Additional Terms and Conditions**

**2.a** NONE

**II. Operational Restrictions**

NONE

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

NONE

**IV. Reporting Requirements**

NONE

**V. Testing Requirements**

NONE

**VI. Miscellaneous Requirements**

NONE

**NEW SOURCE REVIEW FORM B**

PTI Number: 02-14896 Facility ID: 0250001000

FACILITY NAME Northern Ohio Paving

FACILITY DESCRIPTION Relocation of Allied Corp. Plant 74; change to permanent location; use of used oil as fuel source CITY/TWP North Jackson

SIC CODE 2951 SCC CODE 3-05-002-05 EMISSIONS UNIT ID P901

EMISSIONS UNIT DESCRIPTION 350 TPH standard Havens Asphalt Plant, Drum Mix. This unit has been designated as unit 74 by the facility.

DATE INSTALLED 1980

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 | 98 | 429.2 | 98 | 171.5 |
| $PM_{10}$ | attainment | 22.8 | 99.7 | 22.8 | 39.8 |
| Sulfur Dioxide | attainment | 20.3 | 88.9 | 20.3 | 35.5 |
| Organic Compounds | attainment | 11.2 | 49.1 | 11.2 | 19.6 |
| Nitrogen Oxides | attainment | 45.5 | 199.3 | 45.5 | 79.6 |
| Carbon Monoxide | attainment | 19.3 | 84.5 | 19.3 | 33.7 |
| Lead | | | | | |
| Other: Air Toxics | | | | | |

APPLICABLE FEDERAL RULES:

NSPS?subpart I NESHAP? PSD? OFFSET POLICY?

| WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION? |
|---|
| **Enter Determination**<br>BAT: 0.04 grains of particulate matter per dry standard cubic foot<br>Basis: NSPS, State regulations; Ap-42; similar sources; Best engineering judgement |

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

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

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaiminants 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: _____

# NEW SOURCE REVIEW FORM B

PTI Number: 02-14896 Facility ID: 0250001000

FACILITY NAME Northern Ohio Paving

FACILITY DESCRIPTION Relocation of Allied Corp. Plant 74; change CITY/TWP North Jackson

Emissions Unit ID: T002

SIC CODE 2951 SCC CODE EMISSIONS UNIT ID T002

EMISSIONS UNIT DESCRIPTION 20,000 gallon storage tank for used oil

DATE INSTALLED 5/2001

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 | | | | | |
| $PM_{10}$ | | | | | |
| Sulfur Dioxide | | | | | |
| Organic Compounds | attainment | n/a | 0.1 | n/a | 0.1 |
| Nitrogen Oxides | | | | | |
| Carbon Monoxide | | | | | |
| Lead | | | | | |
| Other: Air Toxics | | | | | |

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

| WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION? |
|---|
| **Enter Determination**<br>submerged fill<br>standard BAT |

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

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

## TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaiminants 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:

**Ohio EPA Permit to Install Information Form** Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit hard copy items to **Pam McGraner**, AQM&P, DAPC, Central Office, and electronic files to **airpti@epa.state.oh.us**

| ***Please fill out the following. If the checkbox does not work, replace it with an 'X'*** | Electronic | **Additional information** File Name Convention (your PTI # plus this letter) | Hard Copy | None |
|---|---|---|---|---|
| Calculations (required) | ☐ | 0000000**c**.wpd | ☒ | |
| Modeling form/results | ☐ | 0000000**s**.wpd | ☐ | ☐ |
| PTI Application (complete or partial)* | ☐ | 0000000**a**.wpd | ☐ | ☐ |
| BAT Study | ☐ | 0000000**b**.wpd | ☐ | ☐ |
| Other/misc. | ☐ | 0000000**t**.wpd | ☐ | ☐ |

# NEW SOURCE REVIEW FORM B

PTI Number: 02-14896 Facility ID: 0250001000

FACILITY NAME Northern Ohio Paving

FACILITY DESCRIPTION Relocation of Allied Corp. Plant 74; change CITY/TWP North Jackson

Emissions Unit ID: T002

* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

**NSR Discussion**

Permit written to allow company to choose fuel based on cost/availability. Emphasis on the used oil to differentiate the requested on-spec from off-spec.

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

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

Permit To Install **02-14896**

A. Source Description

This source, Northern Ohio Paving , is proposing to use 'on-spec' used oil as an alternate fuel for the 350 TPH asphaltic plant at 1661 Bailey Road in North Jackson. The permit also allows for the installation of a 20,000 gallon storage tank for 'on-spec' used oil.

**B. Facility Emissions and Attainment Status**

The asphaltic concrete plant is located in Mahoning County. Mahoning County is attainment for particulate, sulfur dioxide, carbon monoxide, ozone, lead, and oxides of nitrogen. The maximum potential to emit, at 8760 hours per year for this emissions unit (P901) are 199.3 tons per year for carbon Nitrogen oxides ($NO_x$). This would make the facility a 'major source' requiring a Title V Permit. The potential emissions of the other pollutants do not reach the 100 TPY threshold.

**C. Source Emissions**

Northern Ohio Paving will limit the plant's operating hours to 3,500 hours per rolling 12-month period. With the proposed hour restriction, the total annual $NO_x$ emissions will be limited to 79.6 tons per year. The PTI requires record keeping to ensure compliance with the operational hour restriction.

**D. Conclusion**

The fuel usage and operating hours records required in this permit are sufficient to provide federally enforceable limitations for ensuring that the applicable Title V thresholds will not be exceeded.

**PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:**

NONE

**Please complete:**

**SUMMARY (for informational purposes only)**

**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

| Pollutant | Tons Per Year |
|---|---|

35 **NEW SC**

PTI Num

FACILIT

Emissions Unit ID: T002

| | | | |
|---|---|---|---|
| FACILITY DESCRIPTION | Relocation of Allied Corp. Plant 74; change to permanent location; use of used oil as fuel source | CITY/TWP | North Jackson |

| | |
|---|---|
| **CO** | **33.7** |
| **$SO_2$** | **35.5** |
| **$NO_x$** | **79.6** |
| **VOCs** | **19.6** |
| **PE** | **39.8** |

36

**NEW SC**

PTI Num

FACILIT

Emissions Unit ID: T002

| | | | |
|---|---|---|---|
| FACILITY DESCRIPTION | Relocation of Allied Corp. Plant 74; change to permanent location; use of used oil as fuel source | CITY/TWP | North Jackson |