



State of Ohio Environmental Protection Agency

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

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: 06-06078

DATE: 6/14/00

Mar-Zane Inc Plant 21
Ron Morrison
PO Box 1585
Zanesville, OH 43702

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

SEDO



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install

Issue Date: 6/14/00

FINAL PERMIT TO INSTALL 06-06078

Application Number: 06-06078
APS Premise Number: 0660010241
Permit Fee: **\$2000**
Name of Facility: Mar-Zane Inc Plant 21
Person to Contact: Ron Morrison
Address: PO Box 1585
Zanesville, OH 43702

Location of proposed air contaminant source(s) [emissions unit(s)]:
PO Box 1585
Zanesville, Ohio

Description of proposed emissions unit(s):
Drum Mix Asphalt Plant - Mansfield Asphalt Paving Facility.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

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

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

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

Environmental Protection Agency if the proposed sources are inadequate 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 prove to be inadequate 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.

14. Construction Compliance Certification

Mar-Zane Inc Plant 21
PTI Application: 06-06078
Issued: 6/14/00

Facility ID: 0660010241

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	5.13
CO	16.0
NOx	8.6
SO ₂	0.94
VOC	14.5

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 - 380 tons per hour Drum Mix Asphalt Plant with baghouse; rotary dryer, hot aggregate elevator, vibrating screens, and weigh hopper	OAC rule 3745-31-05(A)(3)
Aggregate storage bins and cold aggregate elevator	

NSPS (40 CFR Part 60, Subpart I)	Applicable Emissions Limitations/Control Measures	Visible emissions shall be < 20% opacity as a six minute average from the stack, except as provided by rule .
	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart I.	The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule
	Emissions of particulate matter (PM) shall not exceed 6.84 lb/hr, 5.13 TPY.	3745-31-05(A)(3)
	Emissions of carbon monoxide (CO) shall not exceed 21.0 lbs/hour; 16.0 TPY	Less than or equal to 20 percent opacity, as a 3-minute average, for the fugitive dust emissions
OAC rule 3745-17-11(B)(1) OAC rule 3745-17-07 (A)(1)	Emissions of oxides of nitrogen (NO _x) shall not exceed 12.0 lb/hour; 8.6 TPY	The drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the elevator loading area.
OAC rule 3745-31-05 (A)(3)	Emissions of sulfur dioxide (SO ₂) shall not exceed 1.25 lb/hour; 0.94 TPY	The aggregate loaded into the storage bins shall have a moisture content sufficient to eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer.
	Emissions of volatile organic compounds (VOC) shall not exceed 19.4 lb/hour; 14.5 TPY	The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule
	No visible emissions of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper	3745-31-05(A)(3).
OAC rule 3745-17-08(B)	Emissions of particulate matter shall not exceed 0.04 grains/dscf of exhaust gases	

2. Additional Terms and Conditions

- 2.a** In accordance with OAC rule 3745-31-05, this emissions unit has been approved for the use of recycled asphalt products.
- 2.b** This emissions unit is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

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

B. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 3.0 to 8.0 inches of water while the emissions unit is in operation.
- The maximum annual production rate for this emissions unit shall not exceed 570,000 tons, based upon a rolling 12-month summation of the production rates.

To ensure enforceability during calendar year 2000, the permittee shall not exceed the production levels specified in the following table:

Month	Maximum Cumulative Allowable Production (tons)
1	1,000
1 - 2	2,000
1 - 3	28,000
1 - 4	73,000
1 - 5	133,000
1 - 6	218,000
1 - 7	303,000
1 - 8	388,000
1 - 9	453,000
1 - 10	508,000
1 - 11	558,000
1 - 12	570,000

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

the production rates.

C. Monitoring and/or Recordkeeping Requirements

1. 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 daily basis.
2. 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 issuance of this permit, the rolling, 12-month summation of the production rates.

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

D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit a "Notice of Intent to Relocate a Portable or Mobile Source" form 30 days prior to any planned relocation of this emissions unit, in accordance with OAC rule 3745-31-03(A)(6). (A copy of the form is attached to this permit.) Approval of the planned relocation must be obtained from the SEDO prior to the relocation.
3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable monthly production levels.
4. 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

Southeast District Office
2195 Front Street
Logan, Ohio 43138

5. These deviation reports as denoted in terms D.1. and D.3 shall be submitted in accordance with Part I, term A.2.

E. Testing Requirements

1. Emissions Limitation:
0.04 gr/dscf and 6.84 lb/hr of PM
19.4 lb/hr VOC

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

Within three months of issuance of this permit, the permittee shall conduct, or have conducted, an emission test(s) for this emissions unit in order to demonstrate compliance with the allowable mass emission rate(s) for volatile organic compounds. The VOC test(s) shall be conducted in accordance with the test methods and procedures specified in 25 of 40 CFR Part 60 while the emissions unit is operating at or near maximum capacity and using recycle products.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to

Mar-Zane Inc Plant 21
PTI Application: 06 06079
Issued

Facility ID: 0660010241

Emissions Unit ID: **P901**

Test" notification. 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 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 field office's refusal to accept the results of the emissions test(s).

Personnel from the 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 regarding the emissions unit operating parameters.

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

Mar-2**PTI A****Issued: 6/14/00**Emissions Unit ID: **P901**

2. Emission Limitation:
5.13 TPY PM

Compliance Method:

Compliance shall be determined by the following calculation:

$$0.040 \text{ gr/dscf} \times \text{lb}/7000 \text{ gr} \times \text{maximum flow rate of the control equipment} \times 60 \text{ min/hr} \times \text{hours of operation during the calendar year} \div 2000 \text{ lb/ton.}$$

3. Emission Limitation:
14.5 TPY VOC

Compliance Method:

Compliance shall be determined by the one time calculation using the lb/hr VOC emission rate from emissions testing multiplied by the maximum hours of operation of this emissions unit, divided by 2000 lb/ton.

4. Emissions Limitation:
CO - 21.0 lb/hr; 16.0 TPY
NO_x - 12.0 lb/hr; 8.6 TPY
SO₂ - 1.25 lb/hr; 0.94 TPY

Compliance Method:

Compliance with the emissions limitations for CO, NO_x and SO₂ shall be determined by a one time calculation using AP-42, Chapter 11.1, Table 11.1-8 (1/95) emission factors for the individual pollutant multiplied by the appropriate production rate, 400 tons/hr or 570,000 tons per year.**F. Miscellaneous Requirements**

None

NEW SOURCE REVIEW FORM B

PTI Number: 06-06078

Facility ID: 0660010241

FACILITY NAME Mar-Zane Inc Plant 21

FACILITY DESCRIPTION Drum Mix Asphalt Plant - Mansfield
Asphalt Paving Facility

CITY/TWP Zanesville

Emissions Unit ID: **P901**

SIC CODE 2951 SCC CODE 30500205 EMISSIONS UNIT ID P901

EMISSIONS UNIT DESCRIPTION 380 TPH Gentec drum mix asphalt plant

DATE INSTALLED NA

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	6.84 lb/hr	5.13	0.04 gr/dscf (6.84 lb/hr)	5.13
PM ₁₀					
Sulfur Dioxide	attainment	1.25 lb/hr	0.94	1.25 lb/hr	0.94
Organic Compounds	attainment	19.4 lb/hr	14.5	19.4 lb/hr	14.5
Nitrogen Oxides	attainment	11.4 lb/hr	8.6	11.4 lb/hr	8.6
Carbon Monoxide	attainment	21.0 lb/hr	16.0	21.0 lb/hr	16.0
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? Yes

NESHAP? No

PSD? No

OFFSET POLICY? No

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?**Enter Determination** Settling chamber and Bag house-operating control efficiency 99.9%

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$80,000

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial

