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Facility Name: **MAR-ZANE INC**

Application Number: **01-7353**

Date: **June 18, 1998**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCE(S)

The proposed source(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 source(s) has already begun or has been completed prior to the date the Director of the Ohio 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 Ohio Administrative Code

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(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.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 15 days of the effective date of this permit to install.

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.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

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.

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PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be made at least 90 days prior to start-up of the source.

NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for 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.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **MAR-ZANE INC** located in **Franklin** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>			<u>Source Identification Description</u>	
P901	P901 Cont'd		600 tons/hour Drum mix hot mix asphalt plant	
	F001	F002		Plant roadways and parking areas
		F003		

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
	<u>BAT Determination</u>		to meet requirements of OAC rules 3745-17-07 and 08	<u>Applicable Federal & OAC Rules</u>
Material exhaust gases; handling with opacity limitations operations	Use of baghouse dust collector capable of meeting NSPS standard of 0.04 gr/dscf	Use of water as a dust suppressant to meet requirements of OAC rules 3745-17-07 and 08	Use of water as a dust suppressant to meet requirements of OAC rules 3745-17-07 and 08	40 CFR 60 Subpart I (NSPS); 3745-31-05 3745-17-07 3745-17-11 3745-18-06
Storage piles				
		Use of water as a dust suppressant		

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
	3745-17-07 3745-17-08			
		Permit Allowable Mass Emissions and/or Control/Usage Requirements		60-minute observation period; no visible emissions from paved roadways and parking areas except for a period of time not to exceed one minute during any 60-minute observation period.
3745-31-05 3745-17-3745-17-07 07 3745-17-08 08	3745-31-05 3745-17-07 3745-17-08	0.04 gr/dscf particulate; maximum 20 percent opacity; 15.72 pounds PM/hour, 14.15 tons PM/year; 33.6 pounds CO/hour, 30.24 tons CO/year; 18.0 pounds NO _x /hour, 16.2 tons NO _x /year; 1.98 pounds SO ₂ /hour, 1.78 tons SO ₂ /year; 30.6 pounds OC/hour, 27.54 tons OC/year; Production of no more than 1,080,000 tons asphalt per year; Opacity shall not exceed 20 percent as a six minute average, except as provided by rule		0.269 ton PM/year; Opacity not to exceed 20 percent as a three minute average
3745-31-05		23.62 tons PM/year; No visible emissions from unpaved roadways and parking areas except for a period of time not to exceed three minutes during any		89.2 tons PM/year; No visible emissions from any material storage pile except for a time period not to exceed one minute during any 60-minute observation period.

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SUMMARY
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PM	127.2
CO	30.2
NO _x	16.2
SO ₂	1.78
OC	27.5

NSPS REQUIREMENTS

The following sources are 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.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
P901	Asphalt plant	I

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

Pursuant to 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);

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- 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, OH 43216-3669

and **Ohio EPA, Central District Office**
3232 Alum Creek Drive
Columbus, OH 43207-3417

RECORD(S) RETENTION AND AVAILABILITY

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA, Central District Office, 3232 Alum Creek Drive, Columbus, OH 43207-3417.**

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

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This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Central District Office, 3232 Alum Creek Drive, Columbus, OH 43207-3417.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

A. Operational Restrictions - Emissions Units P901, F001, F002, F003

1. The maximum rolling 12-month production rate of asphaltic concrete for this emissions unit shall not exceed 1,080,000 tons.

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

<u>Month</u>	<u>Maximum Allowable Production</u>
January	2,160 tons
February	2,160 tons

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March	54,000 tons
April	97,200 tons
May	108,000 tons
June	140,400 tons
July	140,400 tons
August	140,400 tons
September	140,400 tons
October	118,800 tons
November	108,000 tons
December	28,080 tons

2. To ensure that 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 three inches or greater than five inches of water shall be maintained at all times. This pressure drop shall be verified during

the next stack test where compliance with PM limitations is demonstrated.
3. Only natural gas shall be burned in P901. No other fuel shall be used in this emissions unit.
4. The permittee shall apply dust suppressants to unpaved roadways, parking areas, material storage piles, and material handling operations to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic and wind. The dust suppressant shall be applied to all surfaces as needed in order to meet applicable limitations.
5. Paved surfaces shall be mechanically swept in order to meet applicable emission limitations and to minimize or eliminate visible emissions of fugitive dust generated by vehicular traffic and wind.
6. Any material carried off of the permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly to prevent re-suspension.
7. A maximum speed limit of 15 miles per hour shall be enforced on the property.

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8. Open bodied vehicles transporting materials likely to become airborne shall be covered at all times.
9. The drop height of the front end loader bucket shall be minimized to the extent possible in order to eliminate visible emissions of fugitive dust from the elevator loading area
10. 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.

B. Recordkeeping Requirements

1. The permittee shall maintain records of the following information:
 - a. the production rate of asphaltic concrete for each month (tons per month);
 - b. the total hours of operation for each month; and,
 - c. the rolling 12-month summation of asphaltic concrete production (tons/rolling 12 months)
2. The permittee shall properly operate and maintain a monitoring device capable of accurately measuring the pressure drop across the fabric filter. Daily readings shall be taken from this device and recorded in a log along with date of reading, time of reading, and the name of the person recording the required information. If the pressure drop reading is not within the range specified in A.2 above, a notation shall be made in the log book explaining the cause of the unacceptable reading and any actions taken to correct the problem.
3. The permittee shall maintain monthly records which include the following information for the unpaved roadways and parking areas and aggregate storage piles:
 - a. the dates dust suppressants were applied to the unpaved surfaces and/or storage piles;

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- b. the portions of unpaved surfaces/storage piles that were treated with dust suppressants;
 - c. the application rate of water and any chemical additives (gallons of each per square yard); and,
 - d. the name of the equipment operator responsible for the application of the dust suppressants.
4. The permittee shall maintain monthly records which include the following information for the paved roadways and parking areas:
 - a. the dates that the paved surfaces are cleaned;
 - b. the portions of paved surfaces that were cleaned; and,
 - c. the name of the equipment operator responsible for the cleaning of the paved surface.

C. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the above-mentioned allowable pressure drop range (A.2 above) within 30 days of the exceedance occurring. The permittee shall also submit with this report the reason for the exceedance and corrective measures taken. Additionally, the permittee shall state measures taken to prevent the exceedance from occurring again.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling 12-month asphalt production limitation within 14 days of the end of the month in which the exceedance is identified.
3. During the first 12 months of operation following the issuance of this permit, the permittee shall submit deviation (excursion) reports which identify all exceedances of the monthly production limitations established in section A.1, above. These reports shall be submitted within 14 days of the end of the month in

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which the exceedance occurred.

4. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of the following shall be submitted to the Ohio EPA, Central District Office:
 - 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.

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).

D. Compliance Determination Methods P901

1. Emissions Limitations:
 - a. 0.04 gr PM/dscf of exhaust gas;
 - b. 15.72 lbs PM/hr;
 - c. 14.15 tons PM/yr;
 - d. 33.6 lbs CO/hr;
 - e. 30.24 tons CO/yr;
 - f. 18.0 lbs NO_x/hr;

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- g. 16.2 tons NO_x/yr;
- h. 1.98 lbs SO₂/hr;
- i. 1.78 tons SO₂/yr;
- j. 30.6 lbs OC/hr;
- k. 27.54 tons OC/yr;
- l. maximum production 1,080,000 tons asphalt per year; and,
- m. opacity not to exceed 20 percent as a six-minute average.

2. Compliance Methods

- a. Use and maintenance of cyclone/baghouse dust collector to meet NSPS requirements, compliance with Operational Restrictions A.1 and Recordkeeping Requirements B.2 above, stack testing per OAC rule 3745-17-03 (B)(10) (see D.4 below).
- b. Use and maintenance of baghouse dust collector to meet NSPS requirements, compliance with asphalt production limitations and Operational Restrictions A.1 above and Recordkeeping Requirements B.2 above, stack testing per OAC rule 3745-17-03 (B)(10) (see D.4 below).
- c. Use and maintenance of baghouse dust collector to meet NSPS requirements, compliance with asphalt production limitations and Operational Restrictions A.1 above and Recordkeeping Requirements B.2 above, stack testing per OAC rule 3745-17-03 (B)(10) (see D.4 below).

Following the required stack testing for this source, compliance shall be determined by the following formula:

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$$A = (G) (F) (1/7000) (1/P) (N) (1/2000) (60)$$

Where

- A = annual PM emissions, in tons
 G = exhaust grain loading, in grains per dry standard cubic feet
 F = stack air flow rate observed during the most recent compliance test in which compliance was demonstrated, in dry standard cubic feet per minute
 N = number of tons of asphalt produced per year based on records required by section B of these terms and conditions.
 P = process weight rate observed during the most recent compliance test in which compliance was demonstrated, in tons per hour.

The permittee shall use values of "P = 600", "F = 82,000", and "G = 0.04" in the above formula from the date of permit issuance until the permittee conducts the emissions testing specified in sections D.3 through D.8 of these terms and conditions.

- d. Compliance shall be demonstrated through stack testing in accordance with USEPA Reference Method 10, of 40 CFR Part 60, Appendix A (see D.3 below). Additionally, following the required stack testing for this source, compliance shall be determined by the following formula:

$$HCO = (COEF) (MP / MHO)$$

Where

- HCO = average hourly CO emissions, pounds per hour
 COEF = CO emission factor observed during the most recent compliance test in which compliance was demonstrated, in pounds CO per ton asphalt produced
 MP = monthly asphalt production, tons per month (see B.1.a, above)

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MHo = monthly hours of operation, hours per month (see B.1.b above)

The permittee shall use "COEF = 0.056 lb CO / ton asphalt" in the above formula from the date of permit issuance until the permittee conducts the emissions testing specified in sections D.3 through D.8 of these terms and conditions.

- e. Compliance with rolling 12-month production limitations and Recordkeeping Requirements B.1 above. Also, compliance shall be determined by multiplying the average emission rate in pounds per ton of asphaltic concrete production from the most recent compliance test (see D.3 below) by each rolling 12-month production summation, and dividing by 2000 lbs/ton. Until additional emission tests are conducted, the emission rate of 0.056 lb CO/ton from AP-42 shall be used in this calculation.
- f. Compliance shall be determined by the following formula:

$$HN = (NEF) (MP / MHo)$$

Where

HN = average hourly NO_x emissions, pounds per hour

NEF = NO_x emission factor, in pounds NO_x per ton asphalt produced (0.030 lb NO_x / ton asphalt)

MP = monthly asphalt production, tons per month (see B.1.a, above)

MHo = monthly hours of operation, hours per month (see B.1.b above)

- g. Compliance with rolling 12-month production limitations and Recordkeeping Requirements B.1 above. Also, compliance shall be determined by multiplying the emission factor in pounds per ton of asphaltic concrete production by each rolling 12-month production summation, and dividing by 2000 lbs/ton. The emission rate of 0.030 lb

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NOx/ton from AP-42 shall be used in this calculation.

- h. Compliance shall be determined by the following formula:

$$HS = (SEF) (MP / MHo)$$

Where

HS = average hourly SO₂ emissions, pounds per hour

SEF = SO₂ emission factor in pounds SO₂ per ton asphalt produced (0.0033 lb SO₂ / ton asphalt)

MP = monthly asphalt production, tons per month (see B.1.a, above)

MHo = monthly hours of operation, hours per month (see B.1.b above)

- i. Compliance with rolling 12-month production limitations and Recordkeeping Requirements B.1 above. Also, compliance shall be determined by multiplying the emission factor in pounds per ton of asphaltic concrete production by each rolling 12-month production summation, and dividing by 2000 lbs/ton. The emission rate of 0.0033 lb SO₂/ton from AP-42 shall be used in this calculation.
- j. Following the required stack testing for this source, compliance shall be determined by the following formula:

$$HO = (OEF) (MP / MHo)$$

Where

HO = average hourly OC emissions, pounds per hour

OEF = OC emission factor observed during the most recent compliance test in which compliance was demonstrated, in pounds OC per ton asphalt produced

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MP = monthly asphalt production, tons
per month (see B.1.a, above)

MHo = monthly hours of operation, hours
per month (see B.1.b above)

The permittee shall use "OEF = 0.051 lb OC/ton asphalt" in the above formula from the date of permit issuance until the permittee conducts the emissions testing specified in sections D.3 through D.8 of these Additional Special Terms and Conditions.

- k. Compliance with rolling 12-month production limitations and Recordkeeping Requirements B.1 above. Also, compliance shall be determined by multiplying the average emission rate in pounds per ton of asphaltic concrete production from the most recent compliance test (see D.5 below) by each rolling 12-month production summation, and dividing by 2000 lbs/ton. Until additional emission tests are conducted, the emission rate of 0.051 lb OC/ton from AP-42 shall be used in this calculation.
 - l. Compliance with Recordkeeping requirements B.1 above.
 - m. Method 9 of 40 CFR Part 60, Appendix A; OAC rule 3745-17-03(B)(1)
3. Within 60 days of achieving maximum production rate, but not later than 180 days after start-up, the permittee shall conduct, or have conducted, emission tests for this emissions unit in order to demonstrate compliance with the allowable mass emission rates for carbon monoxide. The carbon monoxide tests shall be conducted in accordance with the test methods and procedures specified in "USEPA Reference Method 10, of 40 CFR Part 60, Appendix A" while the emissions unit is operating at or near maximum capacity and using only "virgin aggregate".
 4. Within 60 days of achieving maximum production rate, but not later than 180 days after start-up, the permittee shall conduct, or have conducted, emission

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tests for this emissions unit in order to demonstrate compliance with the allowable mass emission rates for particulates. The particulates tests shall be conducted in accordance with the test methods and procedures specified in Method 5 of 40 CFR Part 60, Appendix A while the emissions unit is operating at or near maximum capacity and using only "virgin aggregate".

5. Within 60 days of achieving maximum production rate, but not later than 180 days after start-up, the permittee shall conduct, or have conducted, emission tests for this emissions unit in order to demonstrate compliance with the allowable mass emission rates for organic compounds. The organic compounds tests shall be conducted in accordance with the test methods and procedures specified in "USEPA Reference Method 25 or Method 25 A, as appropriate, of 40 CFR Part 60, Appendix A" while the

emissions unit is operating at or near maximum capacity and using only "virgin aggregate".

6. Not later than 30 days prior to the proposed test dates, the permittee shall submit an Intent to Test notification. The Intent to Test notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA, Central District Office's refusal to accept the results of the emissions tests.
7. Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment and acquire data and information regarding the emissions unit operating parameters.
8. A comprehensive written report on the results of the emission test(s) shall be submitted within 30 days following completion of the test(s).

E. Compliance Determination Methods F001

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1. Emissions Limitations:

- a. 23.62 tons PM per year;
- b. no visible emissions from unpaved roadways and parking areas except for a period of time not to exceed three minutes during any 60-minute observation period; and,
- c. no visible emissions from paved roadways and parking areas except for a period of time not to exceed one minutes during any 60-minute observation period.

2. Compliance Methods:

- a. compliance with Recordkeeping Requirements B.3 and B.4 above for dust suppressant application,

compliance with Operational Restrictions A.4, A.5, A.6, A.7, and A.8 above;
- b. Method 22 of 40 CFR Part 60, Appendix A; and,
- c. Method 22 of 40 CFR Part 60, Appendix A.

F. Compliance Determination Methods F002

1. Emissions Limitations:

- a. 0.269 ton PM/yr; and,
- b. opacity shall not exceed 20 percent over a three minute average.

2. Compliance Methods:

- a. compliance with Operational Restrictions A.4, A.9 and A.10, compliance with Recordkeeping Requirements B.3 above; and,
- b. Method 9 of 40 CFR Part 60, Appendix A.

G. Compliance Determination Methods F003

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1. Emissions Limitations:
 - a. 89.2 tons PM/yr; and,
 - b. no visible emissions from storage piles except for a period of time not to exceed three minutes during any 60-minute observation period.
2. Compliance Methods:
 - a. compliance with Operational Restrictions A.4 and A.9 above, compliance with Recordkeeping Requirements B.3 above; and,
 - b. Method 22 of 40 CFR Part 60, Appendix A.

H. Miscellaneous Requirements

1. The permittee shall comply with any applicable state and federal requirements governing the storage, treatment, transport, and disposal of any waste material generated by the operation of the sources.