

217/782-2113

REVISED
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT

PERMITTEE

Rockford Blacktop Construction Company
Attn: Dale Wieman
5290 Nimitz Road
Loves Park, Illinois 61111

Application No.: 97040130

I.D. No.: 201802AAF

Applicant's Designation: 1721DRUM

Date Received: May 24, 2001

Subject: Portable Asphalt Plant

Date Issued: June 15, 2001

Expiration Date: October 21, 2003

Location: 12893 Trask Bridge Road, Durand

This permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of a portable drum mix asphalt plant comprised of oil-fired mixer/dryer controlled with a baghouse, one oil-fired asphalt heater, three #2 fuel oil storage tanks, and one asphalt storage tank as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of carbon monoxide from the asphalt plant to less than 100 tons/yr, as further described in Attachment A. As a result, the source is excluded from requirements to obtain a Clean Air Act Permit Program permit.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes the current operating permit(s) issued for this location.
- 2a. This Asphalt Plant is subject to New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and I. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. The emissions from the Asphalt Plant shall not contain particulate matter in excess of 0.04 gr/dscf and shall not exhibit 20% opacity or greater, pursuant to the NSPS, 40 CFR 60.92.
- c. At all times the Permittee shall also maintain and operate the Asphalt Plant, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions, pursuant to the NSPS, 40 CFR 60.11(d).

3a. Operation and emissions of the asphalt plant shall not exceed the following limits:

i. Asphalt concrete mixer/dryer:

<u>Asphalt Concrete Production (T/Yr)</u>	<u>Pollutant</u>	<u>Emission Factor (Lb/T)</u>	<u>Emission (T/Mo)</u>	<u>(T/Yr)</u>
125,000	Carbon Monoxide (CO)	0.14	2	8.1
30,000 (T/Mo)	Nitrogen Oxides (NO _x)	0.058	0.9	3.4
	Sulfur Dioxide (SO ₂)	0.011	0.9	3.6
	Particulate Matter (PM)	0.033	0.5	2.1
	Volatile Organic Material (VOM)	0.032	0.5	2.0

ii. Asphalt heater (hot oil):

<u>Fuel Oil Usage (Gal/Yr)</u>	<u>Pollutant</u>	<u>Emission Factor (Lb/10³ Gal)</u>	<u>Emissions (T/Mo)</u>	<u>(T/Yr)</u>
20,000	Nitrogen Oxides (NO _x)	20	0.05	0.2
4,800 (Gal/Mo)	Sulfur Dioxide (SO ₂)	42.6	0.1	0.43

These limits are based on the maximum production rate and year 2000 standard AP-42 emission factors. Emission factor for PM is based on the allowable by NSPS concentration and operational data during the most recent stack test. Compliance with annual limits shall be determined from a running total of 12 months of data.

4a. The Permittee shall not utilize in the asphalt heater a fuel with a sulfur content greater than 0.3 weight percent.

b. The Illinois EPA shall be allowed to sample all fuels stored at the source.

5a. Within 90 days of a written request from the Illinois EPA, pursuant to 35 Ill. Adm. code Section 201.282, the emissions and opacity of the exhaust from the plant shall be measured by an approved testing service, during conditions which are representative of the maximum performance. The Illinois EPA may provide additional time for the performance of this testing upon request from the Permittee which shows that it is not feasible to perform representative testing within 90 days.

b. i. The following methods and procedures shall be used for testing of emissions. Refer to 40 CFR 60, Appendix A for USEPA test methods.

Opacity	USEPA Method 9
Location of Sample Points	USEPA Method 1
Gas Flow and Velocity	USEPA Method 2
Particulate Matter	USEPA Method 5
Sulfur Monoxide	USEPA Method 6
Nitrogen Oxide 2	USEPA Method 7

- ii. A test shall consist of three separate runs each at least 60 minutes in duration. Compliance shall be determined from the average of the runs provided that the Illinois EPA may accept the arithmetic mean of the two runs in circumstances described in 40 CFR 60.8(f).
- c. Testing shall be performed by a qualified independent testing service.
- d. At least 30 days prior to the actual date of testing a written test plan shall be submitted to the Illinois EPA for review and approval. This plan shall describe the specific procedures for testing, including:
 - i. The person(s) who will be performing sampling and analysis and their experience with similar tests.
 - ii. The conditions under which testing will be performed, including a discussion of why these conditions will be representative of the maximum operating rate, the levels of operating parameters at or within which compliance is intended to be shown, if applicable, and the means by which the operating parameters for the process and any control equipment will be determined.
- e. The Illinois EPA shall be notified prior to these tests to enable the Illinois EPA to observe these tests. Notification for the expected date of testing shall be submitted a minimum of thirty (30) days prior to the expected date. Notification of the actual date and expected time of testing shall be submitted a minimum of five (5) working days prior to the actual date of the tests. The Illinois EPA may, at its discretion, accept notification with shorter advance notice provided that the Illinois EPA will not accept such notifications if it interferes with the Illinois EPA's ability to observe the testing.
- 6a. The Permittee shall maintain operating and maintenance logs for the rotary dryer control system, including: maintenance activities, with date and description of inspections, repair actions, and equipment or filter bag replacements, etc.
- b. The Permittee shall maintain hourly records of the following items:
 - i. Asphalt dryer raw material feed rate (tons/hour);
 - ii. Type of aggregate processed including slag and recycled material; and
 - iii. Asphalt dryer firing rate (mmBtu/hour).
- c. The Permittee shall maintain daily records of the following items:
 - i. Asphalt concrete production (tons/day); and

- ii. Asphalt dryer fuel type and consumption (gallons/day).
- d. The Permittee shall maintain records of the following items:
 - i. Asphalt concrete production (tons/month and tons/year)
 - ii. Asphalt tank heater fuel type and consumption (gallon/month gallons/year)
- 7. The records required by this permit shall be retained at a readily accessible location at the plant for at least 3 years from the date of entry and shall be made available for inspection and copying by the Illinois EPA and USEPA upon request.
- 8. If the rotary dryer control system is not operating properly while the dryer is operated or there is an exceedance of the requirements of this permit as determined by the records required by Condition 5, the Permittee shall submit a report within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
- 9. No person shall cause or allow any visible emissions of fugitive particulate matter from any process, including material handling or storage activity, beyond the property line of the emission source, pursuant to 35 Ill Adm. Code 212.301.
- 10a. The Final Report(s) for all tests shall be submitted within 90 days after the date of the test. The Final Report shall include as a minimum:
 - i. General information describing the test, including the name and identification of the emission source which was tested, date of test, names of personnel performing the tests, and Illinois EPA observers, if any;
 - ii. A summary of results;
 - iii. Description of test procedures, including description of sampling points, test equipment, and test schedule;
 - iv. Detailed description of test conditions, including:
 - A. Process information, i.e., process rate, aggregate type, fuel type, and firing rate.
 - B. Control equipment information, i.e., equipment condition and operating parameters during testing.

- v. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.
- b. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
2009 Mall Street
Collinsville, Illinois 62234

- 11. The Permittee shall submit the following additional information from the prior calendar year, along with the Annual Emissions Report, due May 1st of each year:

- a. Asphalt production (tons/month and tons/year)
- b. Fuel consumption (gallons/month and gallons/year)

This report should be submitted to the Compliance Section at the address indicated in Condition 10b.

- 12a. Organic liquid by-products or waste materials shall not be used at this source without written approval from the Illinois EPA.

- b. The Permittee shall notify the Illinois EPA prior to any change in the type of fuel used at the source.

- 13. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the nuisance.

- 14. This Permit will expire on the day operation ceases at this location if this plant is moved to a new location, or otherwise on the date specified above.

- 15. The Illinois EPA is to be notified, in writing, within five (5) days of any relocation of the moveable processing equipment, covered by this permit, to another permitted location.

16. The transportation and reassembly of a portable plant at a new location requires a new construction and operating permit pursuant to 35 Ill. Adm. Code 201.142. This permit must be obtained prior to reassembling the plant at the new location. The Illinois EPA will issue a joint construction and operating permit if the information provided in the application forms demonstrates compliance with the Board's Regulations.

It should be noted that emission limits have been changed based on new emission factors.

If you have any questions on this, please call Randy Solomon at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:RBS:jar

cc: Illinois EPA, FOS Region 3
Illinois EPA, Compliance Section
USEPA

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from an asphalt plant operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are well below the levels, e.g., 100 tons per year of carbon monoxide at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled and control measures are more effective than required in this permit.

1. Emissions from the Asphalt Plant:

Asphalt Plant:

<u>Throughput</u>	<u>Pollutant</u>	<u>Emission Rate</u>	<u>Annual Emissions</u> (Ton/Mo)(Ton/Yr)	
125,000 Tons/Year (Asphalt)	PM	0.033 lb/ton	0.5	2.1
	VOM	0.032 lb/ton	0.5	2.0
	CO	0.13 lb/ton	2	8.1
30,000 Tons/Mo	SO ₂	0.011 lb/ton	0.17	3.6
	NO _x	0.058 lb/ton	0.9	3.4

Asphalt Storage Tank Heater:

<u>Throughput</u>	<u>Pollutant</u>	<u>Emission Rate</u>	<u>Annual Emissions</u> (Ton/Mo)(Ton/Yr)	
20,000 Gal/Year (Fuel Oil)	NO _x	20 lb/1,000 gal	0.05	0.2
	SO ₂	42.6 lb/1,000 gal	0.1	0.43
4,800 Gal/ Mo				

These tables define the potential emissions of the plant and is based on the actual emissions determined from hourly unit capacity, the combustion of fuel oil, and standard emission factors.