

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT -- NSPS SOURCE
REVISED

Permittee

Truman L. Flatt & Sons Co., Inc.
Attn: Steven Flatt
2300 North 16th
Springfield, Illinois 62702

<u>Application No.:</u> 89050088	<u>I.D. No.:</u> 167806AAD
<u>Applicant's Designation:</u> CR8835PORT	<u>Date Received:</u> October 4, 1999
<u>Subject:</u> Portable Drum-Mix Plant	
<u>Date Issued:</u> February 22, 2000	<u>Expiration Date:</u> February 22, 2005
<u>Location:</u> Young Road, Buckhart	

Permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of drum-mix asphalt plant using fuel oil, asphalt storage tank, 4 cold feed bins, recycle bin, surge storage silo, and mineral filler tank as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1. This federally enforceable state operating permit is issued to limit the emissions of particulate matter and sulfur monoxide from the asphalt plant to less than major source thresholds, as further described in Attachment A. As a result, the source is excluded from requirements to obtain a Clean Air Act Permit Program permit.
- 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 of the Asphalt Plant shall not exceed the following limits:

Asphalt Concrete Production Rate: 300 tons/hr and 160,000 tons/yr
Asphalt Tank Heater Firing Rate: 2.0 mmBtu/hr

- b. The Illinois EPA shall be allowed to sample all fuels stored at the source.
- c. Emissions and operation of drum-mix asphalt plant shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Asphalt Production</u>		<u>Pollutant</u>	<u>Emission Factor</u>	<u>Emissions</u>	
	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>		<u>(Lb/Ton)</u>	<u>(Lb/Mo)</u>	<u>(T/Yr)</u>
Oil-Fired, Drum-Mix Asphalt Plant	25,000	160,000	TSP	0.02	500	1.60
			CO	0.036	900	2.88
			NO _x	0.075	1,875	6.00
			SO ₂	0.1	2,500	8.00
			VOM	0.008	200	0.64

These limits are based on standard AP-42 emission factors and a maximum hourly production rate of 300 tons, and use of fuel-oil with a maximum sulfur content of .75%. Compliance with annual limits shall be determined from a running total of 12 months of data.

- d. Emissions and operation of asphalt tank heater shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Maximum Heater Rating</u>	<u>Pollutant</u>	<u>Emission Factor</u>	<u>Emissions</u>	
	<u>(mmBtu/Hr)</u>		<u>(Lb/1,000 Gal)</u>	<u>(Lb/Hr)</u>	<u>(T/Yr)</u>
Asphalt Tank Heater	2	SO ₂	42.6	0.61	0.86
		NO _x	20	0.16	0.72

These limits are based on standard AP-42 emission factors, #2 fuel oil with a maximum sulfur content of .3% being the only fuel in the heater and 8,760 hours of operation. Compliance with annual limits shall be determined from a running total of 12 months of data.

- 4. This permit is issued based on negligible emissions of volatile organic material (VOM) from asphalt storage tank and mineral filler tank. For this purpose, each source shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.
- 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 preform 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.

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 6, 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.
10. The assembly of this plant at a new location will require a construction permit for the new location. This permit must be obtained prior to commencing construction at the new location.
11. This permit supersedes the current permit(s) issued for this location.
- 12a. The Permittee shall maintain operating and maintenance logs for the dryer control system, including: maintenance activities, with date and description of inspections, repair actions, and equipment or filter bag replacements, etc.
 - b. These records 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 upon request.
- 13a. 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
5415 North University
Peoria, Illinois 61614

- 14a. 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.
- 15. 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.

It should be noted that the fuel-oil storage tanks are exempt from state permit requirements, pursuant to 35 Ill. Adm. Code 201.146(n)(3).

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

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

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cc: Illinois EPA, FOS Region 2
Illinois EPA, Compliance Section
Lotus Notes

ATTACHMENT

1. Emissions and operation of drum-mix asphalt plant shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Asphalt Production</u>		<u>Pollutant</u>	<u>Emission</u>	<u>Emissions</u>	
	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>		<u>Factor</u>	<u>(Lb/Mo)</u>	<u>(T/Yr)</u>
Oil-Fired, Drum-Mix Asphalt Plant	25,000	160,000	TSP	0.02	500	1.60
			CO	0.036	900	2.88
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These limits are based on standard AP-42 emission factors and a maximum hourly production rate of 300 tons, and using fuel-oil with a maximum sulfur content of .75%. Compliance with annual limits shall be determined from a running total of 12 months of data.

2. Emissions and operation of asphalt tank heater shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Maximum Heater Rating</u>	<u>(mmBtu/Hr)</u>	<u>Pollutant</u>	<u>Emission</u>	<u>Emissions</u>	
				<u>Factor</u>	<u>(Lb/1,000 Gal)</u>	<u>(Lb/Hr)</u>
Asphalt Tank Heater	2		SO ₂	42.6	0.61	0.86
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These limits are based on standard AP-42 emission factors, #2 fuel oil with a maximum sulfur content of .3% being the only fuel in the heater and 8,760 hours of operation. Compliance with annual limits shall be determined from a running total of 12 months of data.

3. This permit is issued based on negligible emissions of volatile organic material (VOM) from asphalt storage tank and mineral filler tank. For this purpose, each source shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.

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