

217/782-2113

"REVISED"
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT
NSPS SOURCE

Permittee

Orange Crush, L.L.C.
Attn: Mark J. Tubay
323 Center Street
Hillside, Illinois 60162

<u>Application No.:</u> 90030053	<u>I.D. No.:</u> 089025AAK
<u>Applicant's Designation:</u> ASPHALT PLT	<u>Date Received:</u> June 5, 1995
<u>Subject:</u> Asphalt Plant and Recycler	
<u>Date Issued:</u> October 17, 1995	<u>Expiration Date:</u> October 17, 2000
<u>Location:</u> Rt. 72, 1/4 mile east of Rt. 25, East Dundee	

Permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of a drum-mix asphalt plant with a natural gas fired rotary drier, an asphalt oil storage tank with a 1.3 mmBtu gas fired heater, and a portable crusher that recycles asphalt pavement and concrete (recycler) that is controlled by spray bars 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 particulate matter (PM), nitrogen oxides (NO_x), carbon monoxide (CO) and volatile organic material (VOM) 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.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes the current 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).

4a. Operation of the Asphalt Plant shall not exceed the following limits:

Asphalt Concrete Production Rate: 500 tons/hr and 650,000 tons/yr
Recycler Input Feed Rate: 250 tons/hr and 250,000 tons/yr
Asphalt Tank Heater Fuel Usage: 1300 ft³

- b. This permit is issued based on the use of natural gas for the dryer and asphalt tank heater. Use of any other fuel will require a revised permit.
- c. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months.
- d. Water spray bars shall be used on the recycling unit at all times.

4a. 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.

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	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.
- 5a. The Permittee shall maintain operating and maintenance logs for the rotary dryer control system, including: operating data, with pressure drop and stack condition, on daily startup and every four hours thereafter.
- 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
 - iii. Asphalt dryer firing rate (mmBtu/hr)
- c. The Permittee shall maintain daily records of the following items:
 - i. Asphalt concrete production (tons/day)
 - ii. Recycler's input feed rate (tons/day)
 - iii. Recycler operating hours (hours/day)
- d. The Permittee shall maintain monthly records of the following items:
 - i. Asphalt concrete production (tons/day)
 - ii. Asphalt tank heater fuel type and consumption (mmft³/month)
- d. The Permittee shall maintain monthly records of the following items:
 - i. Asphalt concrete production (tons/month and tons/year)
 - iii. Recycler's input feed rate (tons/month and tons/year).

6. 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.
7. 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. This report should be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance and Systems Management Section
P.O. Box 19276
Springfield, IL 62794-9276
8. 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.

The following special conditions are not federally enforceable:

- 9a. 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.
- 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. Submittals of information shall be made as follows:

- i. Notices of Test - one copy to Source Emission Test Specialist and one copy to the Regional Office.
- ii. Final Report - one copy to Source Emission Test Specialist, one copy to the Regional Office, and one copy to Permit Section.

Illinois Environmental Protection Agency
Attn: Source Emission Test Specialist
Division of Air Pollution Control
The Eisenhower Tower
1701 First Avenue
Maywood, Illinois 60153

Illinois Environmental Protection Agency
Division of Air Pollution Control - Regional Office
The Eisenhower Tower
1701 South First Avenue
Maywood, Illinois 60153

Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section
P.O. Box 19506
Springfield, Illinois 62794-9506

11. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year: asphalt production, asphalt pavement and concrete recycled, and fuel consumption from the prior calendar year. If there have been no exceedances during the prior calendar year the Annual Emissions Report shall include a statement to that effect.
12. 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.

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. The Illinois EPA is to be notified in writing, within five (5) days of any relocation of the moveable recycling equipment, covered by this permit, to another permitted location.
15. The following standard conditions are not federally enforceable:
Standard Conditions 3(a), 8, 9, 10 and 11.
16. This permit does not supersede any local ordinances or requirements, e.g., operating on Sundays, operating on holidays, operation before and after specified hours, etc.

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

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

DES:DCC:KJL:psj

cc: Illinois EPA, FOS Region 1
Illinois EPA, Compliance Section
USEPA

Attachment A - Emissions Summary

1a. Emissions from the Asphalt Plant:

Asphalt Plant:

<u>Throughput</u>	<u>Pollutant</u>	<u>Emission Rate</u>	<u>Annual Emissions</u>
650,000 tons/year (asphalt)	PM	0.04 gr/dscf	5.42 ton/year
	VOM	0.051 lb/ton	16.58 ton/year
	CO	0.056 lb/ton	18.20 ton/year
	SO ₂	0.0033 lb/ton	1.07 ton/year
	NO _x	0.03 lb/ton	9.75 ton/year

Asphalt Storage Tank Heater:

<u>Throughput</u>	<u>Pollutant</u>	<u>Emission Rate</u>	<u>Annual Emissions</u>
7,644,000 scf/year (natural gas)	NO _x	100 lb/mmscf	0.38 ton/year
	SO ₂	21 lb/mmscf	0.08 ton/year

Asphalt Pavement and Concrete Recycler:

<u>Throughput</u>	<u>Pollutant</u>	<u>Emission Rate</u>	<u>Annual Emissions</u>
250,000 tons/year (recycled material)	PM	0.0016 lb/ton	0.2 ton/year

These tables defines the potential emissions of the plant and is based on the actual emissions determined from hourly unit capacity, the combustion of natural gas, emission standards, if applicable, standard emission factors, and the use of spray bars on the recycler.

b. Particulate Matter Fugitive Emissions

Includes emissions from handling and erosion of storage piles, and paved and unpaved plant road traffic: 30.0 Tons/yr.

217/782-2113

November 1, 1999

Orange Crush, L.L.C.
Attn: Mark Tubay
323 Center Street
Hillside, Illinois 60162

I.D. No.: 089025AAK

Dear Mr. Tubay:

Enclosed is a revised permit letter which reflects only a change of name. Please note that if you have changed or intend to change this operation it will be necessary to apply for revision of your air pollution permit(s).

If you have any questions or require any assistance concerning these matters, contact Karen Luparell at 217/782-2113.

Very truly yours,

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

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Enclosure

cc: Region 1
I.D. File
Permit File