

217/782-2113

"REVISED"
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT - NSPS SOURCE

PERMITTEE

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

<u>Application No.:</u> 89110034	<u>I.D. No.:</u> 197810ABK
<u>Applicant's Designation:</u>	<u>Date Received:</u> April 14, 1995
<u>Subject:</u> Asphalt Plant and Recycler	
<u>Date Issued:</u> January 30, 1997	<u>Expiration Date:</u> January 30, 2002
<u>Location:</u> Rural, Romeoville	

This 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 controlled by a baghouse with a natural gas/residual oil fired dryer, two 35,000 gallon asphalt storage tanks with natural gas fired heater, one 15,000 gallon fuel oil tank, one 20,000 gallon fuel oil tank, and a portable crusher/screen plant used to process recycled asphalt pavement and recycled concrete pursuant to 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 air pollutants from the source to less than major source thresholds (i.e., 100 tons/year for SO₂, NO_x, and 25 tons/year for VOM). As a result, the source is excluded from the requirements to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permit(s) for this location.
- 2a. This Asphalt Plant is subject to the New Source Performance Standard (NSPS) for Hot Mix Asphalt Plants, 40 CFR 60, Subpart A and I. The Illinois EPA is administrating NSPS in Illinois on behalf of the United States EPA under a delegation agreement.
 - i. 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.

- b. The Portable Aggregate Processing Plant is subject to the New Source Performance Standard (NSPS) for Nonmetallic Mineral Processing Plants, 40 CFR 60, Subpart A and 000. The Illinois EPA is administrating NSPS in Illinois on behalf of the United States EPA under a delegation agreement.
 - i. Emissions of particulate matter from the screens (except if loaded by truck dumping) and belt conveyors shall not exceed 10 % opacity, pursuant to 40 CFR 60.672 (b) and (d).
 - ii. Emissions of particulate matter from the crusher (except if loaded by truck dumping) shall not exceed 15 % opacity, pursuant to 40 CFR 60.672 (c) and (d).
 - iii. The Permittee is required to test or have tested the affected sources pursuant to 40 CFR 60.11 and 60.675. A copy of this test shall be provided to the Agency upon request.
- c. At all times the Permittee shall also maintain and operate the Asphalt Plant and Portable Aggregate Processing 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:

Asphalt Production		Nitrogen Oxides		Volatile Organic Material		Sulfur Dioxide	
<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
100,000	500,000	3.8	18.8	3.5	17.3	2.8	14.0

- b. Asphalt tank heater firing rate shall not exceed 2.8 mmBtu/hr.
 - c. This permit is issued based on the use of natural gas or residual fuel oil for the asphalt plant and natural gas for the asphalt tank heater.
 - d. 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.
- 4a. At the above location, the Permittee shall not keep, store, or utilize a fuel with a sulfur content greater than one (1) weight percent for the asphalt plant.
- b. Organic liquid by-products or waste materials shall not be used in these fuel combustion emission sources without written approval from this Agency.

- c. The Agency shall be allowed to sample all fuels stored at the above location.
- 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; 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) based on an average determined by the tons/day divided by the operating hours/day.
 - ii. Type of aggregate processed including slag and recycled material.
- c. The Permittee shall maintain monthly and yearly records of the following items:

Asphalt concrete production (tons/month and tons/year).
- 6. The records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be available for inspection and copying by the Agency and USEPA upon request. Any record retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Agency request for records during the course of a source inspection.
- 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 this permit, the Permittee shall submit a report to the Agency's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, and a copy of the relevant records, and a description of the exceedances or violation and efforts to reduce the emissions and future occurrences.

The following special conditions are not federally enforceable:

- 8a. Operation of the Portable Crusher/Screen shall not exceed the following limits:

Asphalt and Concrete Recycler		Particulate Matter Emissions	
<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
75,000	250,000	1.2	4.0

- b. 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.
- c. Water spray bars shall be used, as necessary, to comply with the opacity limits in Special Condition 2(b)(i)(ii)(iii).
- 9. This permit is issued based on negligible emissions of volatile organic material (VOM) from the two asphalt and two fuel oil storage tanks. For this purpose, emissions from each unit shall not exceed nominal emission rates of 0.44 ton/year.
- 10a. The Permittee shall maintain records of the following item:

Type of material processed by the crushing plant (tons/month and tons/year).
- b. These records shall be retained at a readily accessible location at the source for at least 3 years and shall be available for inspections and copying by the Agency upon request.
- 11. 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)
 1340 North Ninth Street
 P. O. Box 19276
 Springfield, IL 62794-9276

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

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

- 12. In the event that the operation of this facility results in an odor nuisance the Permittee shall take all appropriate and necessary actions,

including but not limited to, changes in process conditions or installation of emission controls, in order to eliminate the nuisance.

13. No person shall cause or allow any visible emissions of fugitive particulate matter from any process, including any material handling or storage activity beyond the property line of the emission source, pursuant to 35 Ill. Adm. Code 212.301.
14. 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 and 201.143. This permit must be obtained prior to reassembling the plant at the new location.
15. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year:
 - i. Asphalt production.
 - ii. Recycled material processed.
 - iii. Fuel consumption.

This report should be submitted to the Agency's Compliance Section in Springfield.

16. The following Standard Conditions are not federally enforceable: Standard Conditions 3(a), 8, 9, 10, and 11.

If you have any questions on this permit, please call Troy Poorman at 217/782-2113.

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

DES:TDP:jar\8

cc: IEPA, FOS Region 1
IEPA, Compliance Section
USEPA

Attachment A

This attachment provides a summary of the maximum emission for the Asphalt Plant and Recycler operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Agency used the annual operating scenario which results in maximum emissions from such a plant. This is production of 500,000 tons of asphalt concrete and processing 250,000 ton of recycled material. The resulting maximum emission are well below the levels 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:

<u>Throughput</u>	<u>Emission Unit</u>	<u>Pollutant</u>	<u>Emission Rate</u>	<u>Emissions</u>
500,000 tons/yr (asphalt)	Asphalt Plant	NO _x	<u>(Lb/Ton)</u> 0.075	<u>(Ton/Yr)</u> 18.7
		CO	0.036	9.0
		VOM	0.069	17.2
		SO ₂	0.056	14.0
			<u>(qr/dscf)</u>	<u>(Ton/Yr)</u>
		PM	0.04	6.4
	Asphalt Tank Heater	NO _x	<u>(Lb/mmscf)</u> 100	<u>(Ton/Yr)</u> 1.2
		CO	21	0.3
	Storage Tanks	VOM	<u>(Lb/Hr)</u> 0.1	<u>(Ton/Yr)</u> 0.44

This table defines the potential emissions of the asphalt plant and is based on the actual emissions determined from maximum production, the combustion of natural gas or fuel oil emission standards, if applicable, and standard AP-42 emission factors.

2. Emissions from the portable crusher plant:

<u>Throughput</u>	<u>Activity</u>	<u>Pollutant</u>	<u>Emission Rate</u>	<u>Emissions</u>
250,000 tons/yr (recycled material)	Crushing/ Screening	PM	<u>(Lb/Ton)</u> 0.0322	<u>(Ton/Yr)</u> 4.0

This table defines the potential emissions of the crusher plant and is based on the use of uncontrolled AP-42 emission factors for aggregate processing plant at maximum annual throughput.

3. Particulate matter fugitive emissions:

Includes emissions from working and wind erosion of storage piles, and plant vehicle traffic: 24.6 tons/yr.

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217/782-2113

November 1, 1999

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

I.D. No.: 197810ABK

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