

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT - NSPS SOURCE - RENEWAL

PERMITTEE

Peter Baker and Sons
Attn: Robert Baker
1349 Rockland Road
Lake Bluff, Illinois 60044

Application No.: 72121253
Applicant's Designation:
Subject: Asphalt Plant
Date Issued: July 21, 2004
Location: 1349 Rockland Road, Lake Bluff

I.D. No.: 097809AAB
Date Received: April 12, 2004
Expiration Date: July 21, 2009

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of a natural gas-fired batch mix (Plant #5) and drum mix (Plant #7) asphalt plants each controlled by cyclone/baghouse, two natural gas-fired asphalt heaters and recycled asphalt pavement (RAP) crusher controlled by water spray bar 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 carbon monoxide (CO) and particulate matter with an aerodynamic diameter of 10 microns or less (PM-10) and 25 tons/year for volatile organic materials (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) issued for this location.
- 2a. The drum mix asphalt Plant #7 is subject to New Source Performance Standards (NSPS) for Asphalt Concrete Plants, 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 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).

3. Operation and emissions of the two asphalt plants shall not exceed the following limits:

- a. Drum mix asphalt plant:

Asphalt Concrete Production: 90,000 ton/mo, 480,000 ton/yr

<u>Pollutant</u>	<u>Emission Factors</u> (Lb/Ton)	<u>Emissions</u>	
		(Ton/Mo)	(Ton/Yr)
Carbon Monoxide (CO)	0.13	5.9	31.2
Particulate Matter (PM)	0.052	2.3	12.5
Nitrogen Oxides (NO _x)	0.026	1.2	6.2
Volatile Organic Material (VOM)	0.032	1.4	7.7

- b. Batch mix asphalt plant:

Asphalt Concrete Production: 60,000 ton/mo, 330,000 ton/yr

<u>Pollutant</u>	<u>Emission Factors</u> (Lb/Ton)	<u>Emissions</u>	
		(Ton/Mo)	(Ton/Yr)
Carbon Monoxide (CO)	0.40	12.0	66.0
Particulate Matter (PM)	0.025	0.8	4.1
Nitrogen Oxides (NO _x)	0.025	0.8	4.1
Volatile Organic Material (VOM)	0.0082	0.2	1.4

These limits are based on the asphalt production rate 350 tons/hour for the drum mix plant and 240 tons/hour for the batch mix plant and standard emission factors given by AP-42. PM emission factor for drum mix plant is based on the allowable by NSPS concentration and operational data during the most recent stack test. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the preceding 12 months.

4. This permit is issued based on negligible emissions of particulate matter from recycled asphalt pavement crusher. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.
5. This permit is issued based on negligible emissions of carbon monoxide from two asphalt cement heaters. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.
6. 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.
7. 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.
8. The Permittee shall maintain monthly records of the asphalt concrete production (tons/month and tons/year) separately for drum and batch mix plants.

9. All records and logs required by this permit shall be retained at a easily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA and USEPA upon request. Any records 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 the Illinois EPA request for records during the course of a source inspection.
10. If there is an exceedance of the requirements of this permit as determined by the record required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the record keeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
11. The Permittee shall submit the following additional information with the Annual Emission Report, due May 1st of each year: asphalt production (tons/year) by each plant.
12. 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
9511 West Harrison
Des Plaines, Illinois 60016

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

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

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cc: IEPA, FOS Region 1
IEPA, Compliance and Enforcement Section
Lotus Notes

Attachment A - Emissions Summary

This attachment provides a summary of the maximum emissions from the asphalt batch 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. This is a production of 810,000 tons of asphalt concrete per year. The resulting maximum emissions are well below the levels, e.g., 100 tons/year for CO, 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.

<u>Emission Units</u>	<u>Emissions (Ton/Yr)</u>			
	<u>CO</u>	<u>PM</u>	<u>NO_x</u>	<u>VOM</u>
Drum Plant	31.2	12.5	6.2	7.7
Batch Plant	66.0	4.1	4.1	1.4
RAP Crusher	----	0.44	---	---
Asphalt Heater	<u>0.44</u>	<u>----</u>	<u>---</u>	<u>---</u>
Totals:	<u>97.6</u>	<u>17.0</u>	<u>10.3</u>	<u>9.1</u>

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