

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT -- NSPS SOURCE

PERMITTEE

Curran Contracting Company
Attn: Mr. John Simon
7502 South Main Street
Crystal Lake, Illinois 60014

Application No.: 93020062

I.D. No.: 037803AAA

Applicant's Designation:

Date Received: June 24, 2004

Subject: Asphalt Plant

Date Issued:

Expiration Date: October 1, 2006

Location: 2200 County Farm Road, DeKalb

Permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of a natural gas/fuel oil #2/waste oil-fired, drum-mix asphalt plant controlled by baghouse, and nine liquid asphalt storage tanks (five 15,000, one 25,000 and three 10,000 gallon), one 10,000 gallon gasoline storage tank and aggregate crushing plant comprised of the integrated crusher, screen and conveyor 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 air pollutants from the source to less than major source thresholds (i.e., 100 tons/year for carbon monoxide (CO)). 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 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).

- 3a. The aggregate crushing plant is subject to New Source Performance Standards (NSPS) for Nonmetallic Mineral Processing Plants, 40 CFR 60, Subparts A and 000. The Illinois EPA is administrating these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. Fugitive emissions of particulate matter shall not exceed 15 percent opacity from the crusher (except from truck dumping) and 10 percent opacity from the screen (except from truck dumping) and transfer points on the belt conveyor (40 CFR 60.672(b), (c) and (d)).
- c. At all times the Permittee shall also maintain and operate this equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions pursuant to 40 CFR 60.11(d).
- 4. Emissions and operation of the asphalt plant shall not exceed the following limits:

Asphalt Concrete Production: 200,000 (Tons/Month), 900,000 (Tons/Year)

<u>Pollutant</u>	<u>Emission Factor (Lb/Ton)</u>	<u>Emissions</u>	
		<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>
Particulate Matter (PM)	0.033	3.3	14.9
Carbon Monoxide (CO)	0.130	13.0	58.5
Nitrogen Oxide (NO _x)	0.055	5.5	24.8
Sulfur Dioxide (SO ₂)	0.058	5.8	26.1
Volatile Organic Material (VOM)	0.032	3.2	14.4

These limits are based on the asphalt production rate 320 tons/hour and standard emission factors given by AP-42 for the worst-case fuels. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the preceding 12 months.

- 5a. This permit is issued based on negligible emissions of particulate matter from the aggregate crushing plant. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 tons/year. These limits are based on the maximum aggregate process rate of 20,000 tons/month and 80,000 tons/year and standard controlled emission factors given by AP-42. Compliance with annual limits shall be determined from a running total of 12 months of data.
- b. The moisture content of the aggregate as processed shall be at least 1.5% by weight so as to reduce emissions of particulate matter. The Permittee shall demonstrate compliance with this requirement as follows:
 - i. The moisture content of a representative sample of the aggregate shall be measured at least once per week using ASTM Procedures (C566-67) for total moisture content of material. Compliance with this requirement may be presumed if moisture content of aggregate as shipped is at least 1.5%; or

- ii. A. Water sprays shall be used at each crusher and on other emission units as necessary, except when weather conditions are below or expected to fall below freezing temperatures, to provide moisture that will reduce emissions of particulate matter.
 - B. The water supply to the spray equipment shall be equipped with a metering device used to determine water usage for the control of particulate matter emissions.
 - C. Inspections of water spray equipment and operation (such as leaking, adequate flow rate, clogging of flow lines, etc.) shall be performed at least once per week when the facility is in operation; or
 - iii. Water saturated materials mined below the water table are being processed.
6. The gasoline storage tank shall be equipped with a submerged loading pipe to comply with 35 Ill. Adm. Code Section 219.583: Gasoline Dispensing Operations - Storage Tank Filling Operations:
 7. This permit is issued based on negligible emissions of VOM from the nine liquid asphalt storage tanks and the gasoline storage tank. For this purpose, emissions from each emission source shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 tons/year.
 8. 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.
 9. 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.
 10. The Permittee shall maintain monthly records of the asphalt concrete production (tons/month and tons/year).
 11. 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.
 12. 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.

13. 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 - Regional Office
5415 North University
Peoria, Illinois 61614

This permit does not authorize the acceptance of waste. The appropriate permit must be obtained from the Bureau of Land before waste can be accepted if the used oil is not "on-spec" as defined in 35 Ill. Adm. Code 739.111. and the used oil would be considered a solid waste and not a fuel and would be subject to the manifest requirements of 35 Ill. Adm. Code 809 and the facility would be subject to the permitting requirements of 35 Ill. Adm. Code 807 as a solid waste management site.

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

DES:VJB:

cc: IEPA, FOS Region 1
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 900,000 tons of asphalt concrete and processing 80,000 tons of aggregate 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.

Emissions (ton/yr)

Emission Units	CO	PM	NO _x	VOM	SO ₂
Asphalt Plant	58.5	14.9	24.8	14.4	26.1
Storage Tanks				4.4	
Aggregate Plant		0.4			
Total	58.5	15.3	24.8	18.8	26.1

DES:VJB: