

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT - RENEWAL
NSPS SOURCES

PERMITTEE

K-Five Construction Corporation
Attn: Mr. Dennis M. DeVitto, Vice President
13769 Main Street
Lemont, Illinois 60439

Application No.: 91020039 I.D. No.: 043808AAE
Applicant's Designation: Date Received: June 13, 2000
Subject: Asphalt and Crushing Plant
Date Issued: January 3, 2001 Expiration Date: January 3, 2006
Location: 1 North 550 Route 83 (Rt. 83 and First Street), Elmhurst

Permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of a gas-fired, drum mix asphalt plant with cyclone/baghouse and a crushing plant (two crushers, one screen, and twelve conveyors with water sprays), 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 carbon monoxide and volatile organic materials from the gas-fired drum mix asphalt and crushing 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. The 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 40 CFR 60.92.
- c. The Permittee shall 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 40 CFR 60.11(d).
3. Emissions and operation of the asphalt plant shall not exceed the following limits:

Asphalt Concrete Production		Pollutant	Emission Factor	Emissions	
(Ton/Mo)	(Ton/Yr)		(Lb/Ton)	(Ton/Mo)	(Ton/Yr)
180,000	900,000	Particulate Matter	0.0018	1.6	8.1
		Nitrogen Oxides	0.030	2.7	13.5
		Carbon Monoxide	0.056	5.0	25.2
		Sulfur Dioxide	0.0033	0.3	1.5
		Volatile Organic Material	0.030	2.7	13.5

These limits are based on maximum asphalt concrete production and standard AP-42 emission factors. Compliance with annual limits shall be determined from a running total of 12 months of data.

- 4a. The crushing plant is subject to New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and OOO. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. Fugitive emissions of particulate matter from the crushers (except from truck dumping), shall not exceed 15 percent opacity (40 CFR 60.672(c) and (d)).
- c. At all times the Permittee shall also, to the extent practicable, maintain and operate these sources, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions.
- 5a. Emissions and operation of the crushing plant shall not exceed the following limits:

Asphalt Throughput		Equipment	Emission Factor	Particulate Matter Emissions	
(Ton/Mo)	(Ton/Yr)		(Lb/Ton)	(Ton/Mo)	(Ton/Yr)
120,000	600,000	2 Crusher	0.0007	0.1	0.5
		1 Screen	0.0018	0.1	0.6
		12 Conveyors	0.0001	0.1	0.4

These limits are based on maximum aggregate throughput and AP-42 emission factors. Compliance with annual limits shall be determined from a running total of 12 months of data.

- b. Water sprays shall be used on the crushers, screens, stockpiles, and roadways to produce a moisture content of 1.5% by weight or higher.
- c. The aggregate shall be tested once a month during operating time using ASTM Procedures (C566-67) to determine moisture content in percent by weight.

- 6a. The Permittee shall maintain operating logs for the following:
- i. The asphalt plant dryer control system, including operating data daily upon startup and every four hours thereafter (only during times of actual operation).
 - ii. The crushing plant water spray equipment, including dates and times of usage, malfunctions (type, date and measures taken to correct) and water pressure.
- b. The Permittee shall maintain hourly, daily and monthly records of the following items:
- i. Asphalt production (tons/month and tons/year).
 - ii. Aggregate production (tons/month and tons/year).
- c. The Permittee shall maintain weekly records of the water consumption by the spray equipment.
7. The records required by Condition 6 shall be retained at an 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.
8. 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. This report should be sent to:
- Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276
- The condition that requires a source to report any exceedance does not authorize continued operation during such event.
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 transportation and assembly of the asphalt or crushing plant to a new location will require a new Construction and Operating Permit for the new location. This permit must be obtained prior to reassembling the plant at the new location.

11. The Illinois EPA is to be notified in writing within five (5) days of any relocation of the movable processing equipment covered by this permit to another permitted location. After operating the equipment at the other permitted location, the equipment may be returned to this location.
- 12a. The Permittee shall maintain operating and maintenance logs for the dryer control system, including:
 - i. Maintenance activities, with date and description of inspections, repairs, equipment or filter bag replacements, etc.
 - ii. Incidents of malfunction with date, duration, description, probable cause, and corrective actions.
- 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.
13. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year: asphalt production, fuel consumption, aggregate production, and total particulate matter emissions 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.
14. The Permittee shall notify the Illinois EPA prior to any change in the type of fuel used at the source.

It should be noted that the asphalt heater is exempt from state requirements, pursuant to 35 Ill. Adm. Code 210.146(d).

It should be noted that this permit does not incorporate the replacement baghouse to be installed under Construction Permit 99110096 pending performance and analysis of the required NSPS testing.

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

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

DES:JDK:jar

cc: Illinois EPA, FOS Region 1
Compliance Section
USEPA

Attachment A - Emissions Summary

This attachment provides a summary of the maximum emissions from the asphalt plant and the crushing 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. The resulting maximum emissions are well below the levels, e.g., 100 tons per year of carbon monoxide and 25 tons per year of volatile organic materials 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 and operation of the asphalt plant shall not exceed the following limits:

Asphalt Concrete Production		Pollutant	Emission Factor	Emissions	
(Ton/Mo)	(Ton/Yr)		(Lb/Ton)	(Ton/Mo)	(Ton/Yr)
180,000	900,000	Particulate Matter	0.0018	1.6	8.1
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		Sulfur Dioxide	0.0033	0.3	1.5
		Volatile Organic Material	0.030	2.7	13.5

These limits are based on maximum asphalt concrete production and standard AP-42 emission factors. Compliance with annual limits shall be determined from a running total of 12 months of data.

2. Emissions and operation of the crushing plant shall not exceed the following limits:

Asphalt Throughput		Equipment	Emission Factor	Particulate Matter Emissions	
(Ton/Mo)	(Ton/Yr)		(Lb/Ton)	(Ton/Mo)	(Ton/Yr)
120,000	600,000	2 Crusher	0.0007	0.1	0.5
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These limits are based on maximum aggregate throughput and AP-42 emission factors. Compliance with annual limits shall be determined from a running total of 12 months of data.