

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT -- NSPS SOURCE -- RENEWAL

PERMITTEE

Harry W. Kuhn, Inc.
Attn: Albert Molyneaux
28 West 651 North Avenue
West Chicago, Illinois 60185

<u>Application No.:</u> 90020007	<u>I.D. No.:</u> 197010AAD
<u>Applicant's Designation:</u>	<u>Date Received:</u> February 15, 2001
<u>Subject:</u> Asphalt and Crushing Plant	
<u>Date Issued:</u>	<u>Expiration Date:</u>
<u>Location:</u> 331 Royce Road, Bolingbrook	

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, a permanent crushing plant (a jaw crusher, screens and conveyors controlled by water sprays), and a portable crushing plant (primary crusher, impactor, 4-deck screen and conveyors controlled by water sprays) pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto.

- 1a. This federally enforceable state operating permit is issued to limit the emissions of particulate matter from the gas-fired batch mix asphalt and crushing plant to less than major source thresholds (i.e., 100 tons/year for carbon monoxide (CO) and 25 tons/year for volatile organic material (VOM)). As a result, the source is excluded from the requirements to obtain a Clean Air Act Permit Program 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 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. Operation and emissions of the asphalt plant shall not exceed the following limits:

Asphalt Concrete Production: 150,000 Ton/Mo, 900,000

<u>Pollutant</u>	<u>Emission</u>	
	<u>Factor</u> <u>(lb/Ton)</u>	<u>Emissions</u> <u>(Ton/Mo) (Ton/Yr)</u>
Particulate Matter (PM)	0.031	2.3 14.0
Nitrogen Oxides (NO _x)	0.026	2.0 11.7
Carbon Monoxide (CO)	0.13	9.8 58.5
Volatile Organic Material (VOM)	0.032	2.4 14.4

These limits are based on the maximum production rate and standard emission factors given by AP-42 (Revised on 12/00). Emission factor for PM is based on the allowable by NSPS concentration and operational data during the most recent stack test. Compliance with annual limits shall be determined from a running total of 12 months of data.

- 4a. The permanent crushing plant and portable crushing plant are subject to New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and 000. 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. Fugitive emissions of particulate matter from belt conveyors and screens (except from truck dumping) shall not exceed 10 percent opacity, (40 CFR 60.672(b) and (d)).
- d. 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.
5. Operation of the crushing plants shall not exceed the following limits:

- a. Permanent Plant:

<u>Emission Unit</u>	<u>Throughput</u>		<u>Emission</u> <u>Factor</u> <u>(Lb/Ton)</u>	<u>Particulate Matter</u> <u>Emissions</u>	
	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>		<u>(Lb/Mo)</u>	<u>(Ton/Yr)</u>
Crusher	80,000	480,000	0.0012	96	0.3
Screens	80,000	480,000	0.0018	144	0.4

b. Portable Plant:

<u>Emission Unit</u>	<u>Throughput</u>		<u>Emission Factor</u> (Lb/Ton)	<u>Particulate Matter Emissions</u>	
	(Ton/Mo)	(Ton/Yr)		(Lb/Mo)	(Ton/Yr)
Primary Crusher	100,000	600,000	0.0007	70	0.2
Secondary Crusher	100,000	600,000	0.0012	120	0.4
Screen	100,000	600,000	0.0018	180	0.5

These limits are based on the maximum production rate and standard emission factors. Compliance with annual limits shall be determined from a running total of 12 months of data.

- 6a. Water sprays shall be used on the crushers, screens, conveyors, stockpiles, and roadways to produce a moisture content of 1.5% by weight or higher.
- b. The water supply to the spray equipment shall be equipped with a metering device to be used to determine water usage for the control of particulate matter emissions.
- c. The aggregate shall be tested once a month during operating time using ASTM Procedures (C566-67) to determine the moisture content in percent by weight.
7. 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.
8. 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.
9. 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.
10. The Permittee shall maintain monthly records of the following items:
 - i. Asphalt production (tons/mo, tons/yr);
 - ii. Aggregate production (tons/mo, tons/yr).
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 Agency's Compliance and Systems Management Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with recordkeeping 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, IL 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
9511 West Harrison
Des Plaines, Illinois 60016

14. The Permittee shall submit the following additional information with the Annual Emissions Report due May 1st of each year: asphalt and aggregate production (ton/yr) for the previous year.

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: Illinois EPA, FOS Region 1
Illinois EPA, Compliance Section
Lotus Notes

ATTACHMENT A - EMISSIONS SUMMARY

This attachment provides a summary of the maximum emissions from the asphalt and aggregate crushing plants 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 of 1,080,000 tons of aggregate per year. The resulting maximum emissions are well below the levels, (e.g., 100 tons/year for CO and 25 tons/year for VOM), 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. Operation and emissions of the asphalt plant shall not exceed the following limits:

Asphalt Concrete Production: 150,000 Ton/Mo, 900,000

<u>Pollutant</u>	<u>Emission Factor (lb/Ton)</u>	<u>Emissions</u>	
		<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
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2. Operation of the crushing plants shall not exceed the following limits:

- a. Permanent Plant:

<u>Emission Unit</u>	<u>Throughput</u>		<u>Emission Factor (Lb/Ton)</u>	<u>Particulate Matter Emissions</u>	
	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>		<u>(Lb/Mo)</u>	<u>(Ton/Yr)</u>
Crusher	80,000	480,000	0.0012	96	0.3
Screens	80,000	480,000	0.0018	144	0.4

- b. Portable Plant:

<u>Emission Unit</u>	<u>Throughput</u>		<u>Emission Factor (Lb/Ton)</u>	<u>Particulate Matter Emissions</u>	
	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>		<u>(Lb/Mo)</u>	<u>(Ton/Yr)</u>
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3. 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.