

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT -- NSPS SOURCE

PERMITTEE

Arrow Road Construction Company
Attn: Mr. John F. Healy, Vice President
3401 South Busse Road
Mt. Prospect, Illinois 60056

Application No.: 73010533 I.D. No.: 111801AAD
Applicant's Designation: ALGASPHALT Date Received: June 15, 1999
Subject: Batch Mix Asphalt Plant
Date Issued: April 11, 2000 Expiration Date: April 11, 2005
Location: 10501 Route 31, Algonquin

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 asphalt plant controlled by a cyclone and baghouse, a portable crushing plant comprised of one crusher, two screens, and conveyors, all controlled with water spray bars, and one gasoline storage tank, 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)). 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.
2. At all times 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.
3. Operation and emissions of the asphalt plant shall not exceed the following limits:

<u>Asphalt Concrete</u>			<u>Emission</u>		
<u>Production</u>			<u>Factor</u>	<u>Emissions</u>	
<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>	<u>Pollutant</u>	<u>(lb/Ton)</u>	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
100,000	575,000	Carbon Monoxide	0.34	17	97.8

These limits define the potential emissions of CO and are based on the actual emissions determined from maximum production rate and standard emission factors. 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.

4. The Permittee shall maintain monthly records of the asphalt production (tons/month, tons/year).
5. The emissions of HAPs as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish by rule which would require the Permittee to obtain a Clean Air Act Permit Program permit from the Agency. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a Clean Air Act Permit Program permit from the Agency.
- 6a. The portable 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. Emissions of particulate matter from the screens (except from truck dumping) and transfer points on belt conveyors shall not exceed 10 percent opacity (40 CFR 60.672(b) and (d)).
- c. Emissions of particulate matter from the crushers (except from truck dumping) shall not exceed 15 percent opacity (40 CFR 60.672(c) and (d)).
- d. At all times the Permittee shall also maintain and operate this crushing equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions.
- e. Water sprays shall be used on the crusher, screens, and conveyors to produce a moisture content of 1.5% or greater.
7. 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.

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.

The following special conditions are not federally enforceable:

9. Emissions from the asphalt plant shall not exceed the following limits:

<u>Pollutant</u>	<u>Emission Factor</u> (Lb/Ton)	<u>Emissions</u>	
		(Ton/Mo)	(Ton/Yr)
Particulate Matter	0.044	2.5	12.7
Nitrogen Oxides	0.025	1.5	7.2
Volatile Organic Material	0.012	0.7	3.5
Sulfur Dioxide	0.005	0.3	1.5

These limits are based on the maximum asphalt production rate and standard emission factors. The emission factor for VOM was derived as the sum of emission factors for all non-methane organic pollutants. 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.

10. Operation and emissions of the portable crushing plant shall not exceed the following limits:

<u>Aggregate Throughput</u>		<u>Equipment</u>	<u>Emission Factor</u> (Lb/Ton)	<u>Particulate Matter Emissions</u>	
(Ton/Mo)	(Ton/Yr)			(Ton/Mo)	(Ton/Yr)
100,000	562,500	1 Crusher	0.018	1.0	5.1
		2 Screens	0.016	0.9	4.5
		Conveyors (Up to 10 transfer points)	0.003	<u>0.2</u>	<u>0.9</u>
		Totals		2.1	10.5

These limits are based on the maximum processing rate of the crushing plant and emission factors established on the previous permit and requested by the Permittee. 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.

11. The Permittee shall maintain monthly records of the aggregate processed (tons/month, tons/year). These records shall be retained for three years from the date of entry and shall be available for inspection and copying by the Illinois EPA.

12. 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.
13. 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.
14. The assembly of this plant at a new location will require a construction permit for the new location. This permit must be obtained prior to commencing construction at the new location.
15. The Permittee shall submit the following additional information with the Annual Emission Report, due May 1st of each year: asphalt and aggregate production (tons/year).
16. The Permittee shall demonstrate compliance with all conditions of 35 Ill. Adm. Code 218.583, regarding dispensing, filling, and maintenance operations on the 10,000 gallon gasoline storage tank.
17. 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
Eisenhower Tower
1701 First Avenue
Maywood, Illinois 60153

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

It should be noted that the asphalt storage tanks, the diesel storage tank, and the asphalt heater are exempt from state permit requirements, pursuant to 35 Ill. Adm. Code 201.146 (n), (n), and (d), respectively.

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It should be noted that the aggregate plant was successfully performance tested for opacity on October 29, 1999.

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:psj

cc: Illinois EPA, FOS Region 1
Illinois EPA, Compliance Section
USEPA

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 an asphalt production of 575,000 tons 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.

1. Emissions from the asphalt plant:

<u>Pollutant</u>	<u>Emission Factor (Lb/Ton)</u>	<u>Emissions</u>	
		<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
Carbon Monoxide	0.34	17.0	97.8
Particulate Matter	0.044	2.5	12.7
Nitrogen Oxides	0.025	1.5	7.2
Volatile Organic Material	0.012	0.7	3.5
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2. The emissions of HAPs as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish by rule which would require the Permittee to obtain a Clean Air Act Permit Program permit from the Agency. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a Clean Air Act Permit Program permit from the Agency.

3. Operation and emissions of the portable crushing plant shall not exceed the following limits.

<u>Aggregate Throughput</u>		<u>Equipment</u>	<u>Emission Factor (Lb/Ton)</u>	<u>Particulate Matter Emissions</u>	
<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>			<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
100,000	562,500	1 Crusher	0.018	1.0	5.1
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		Conveyors (Up to 10 transfer points)	0.003	<u>0.2</u>	<u>0.9</u>
		Totals		2.1	10.5