

217/782-2113

LIFETIME OPERATING PERMIT -- NSPS SOURCE **B** REVISED

PERMITTEE

Material Service Corporation - Yard 19
Attn: Gary O'Toole
222 North LaSalle Street
Chicago, Illinois 60601

Application No.: 72120512

I.D. No.: 031174AAD

Applicant's Designation: MSCYD19SQ

Date Received: January 10, 2000

Subject: Aggregate Crushing Plant

Date Issued: July 7, 2000

Expiration Date: See Condition 1.

Location: 9101 West 47th Street, McCook

Permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of:

One Primary Crusher
Five Secondary Crushers
Three Tertiary Crushers
Thirteen Screens
Seventy Conveyors, Feeders and Elevators
Fifteen Storage Silos and Hoppers

pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This permit shall expire 180 days after the Illinois EPA sends a written request for the renewal of this permit.
- b. This permit shall terminate if it is withdrawn or is superseded by a revised permit.
2. This permit allows the operation of one primary and one secondary crusher, two feeders and three conveyors constructed under Construction Permit 00010018 only after successful completion of the performance test as specified by the Special Condition 10 of the construction permit.
- 3a. The emission units constructed after August 31, 1983 and which are not located in underground mines and are not replacement equipment as defined in 40 CFR 60.670(d) are subject to New Source Performance Standards (NSPS) for Nonmetallic Mineral Processing Plants, 40 CFR 60, Subparts A and OOO (See Attachment A). 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 from the crushers (except from truck dumping) subject to NSPS shall not exceed 15 percent opacity (40 CFR 60.672(c) and (d)).
- c. Emissions of particulate matter from the transfer points on the belt conveyors subject to NSPS shall not exceed 10 percent opacity (40 CFR 60.672(b)).
- d. Each enclosed affected facility subject to NSPS shall comply with either (40 CFR 60.672(e)):
 - i. A. Fugitive emissions of particulate matter from the screens and transfer points on belt conveyors shall not exceed 10 percent opacity;
 - B. Fugitive emissions of particulate matter from the crushers shall not exceed 15 percent opacity; and
 - C. Particulate matter emissions from the stacks shall not exceed 0.05 g/dscm and exhibit greater than 7% opacity; or
 - ii. A. No visible emission is allowed to be discharged into the atmosphere from any building enclosure except from a vent; and
 - B. Particulate matter emissions from any vent shall not exceed 0.05 g/dscm and exhibit greater than 7% opacity.
- e. Wet screening operations and subsequent belt conveyors that process saturated material shall not discharge into the atmosphere any visible emissions (40 CFR 60.672(h)(1)).
- 4. The plant shall be operated under provisions of an Operating Program designed to significantly reduce fugitive particulate matter emissions and consistent with the requirements of 35 Ill. Adm. Code 212.310.
- 5. The plant operations shall comply with the following requirements of 35 Ill. Adm. Code 212.316 - Emission Limitations for Emission Units in Certain Areas:
 - a. Emission Limitation for Crushing and Screening Operations. No person shall cause or allow fugitive particulate matter emissions generated by the crushing or screening operations to exceed an opacity of 10%.
 - b. Emission Limitations for Roadways or Parking Areas. No person shall cause or allow fugitive particulate matter emissions from any roadway or parking area to exceed an opacity of 5%.

- c. Emission Limitations for Storage Piles. No person shall cause or allow fugitive particulate matter emissions from any storage pile to exceed an opacity of 10%, to be measured four ft from the pile surface.
6. The PM-10 reduction Contingency Measure Plan is incorporated by reference and is federally enforceable. This plan includes:
 - a. Level I measures decreasing actual annual source-wide fugitive PM-10 emissions by at least 15%;
 - b. Level II measures decreasing actual annual source-wide fugitive PM-10 emissions by at least 25%.
7. The source shall implement Contingency Measure Plan referenced in Condition 6 following any exceedence of the 24-hour ambient air quality standard for PM-10. Within ninety (90) days after notification from the Illinois EPA, that the source has caused or contributed to an ambient air quality exceedence, the Permittee shall implement Level I or Level II measures as follows:
 - a. Level I measures shall be implemented when the magnitude of the exceedence is less than or equal to 170 ug/m³;
 - b. Level II measures shall be implemented when the magnitude of the exceedence is greater than 170 ug/m³.
- 8a. Maximum annual aggregate throughput shall not exceed 3,450,000 tons and emission of particulate matter shall not exceed 11.1 tons as specified in Attachment A. These limits are based on the maximum hourly processing rate and standard 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 crushed on controlled units shall be at least 1.5% by weight so as to reduce emissions of particulate matter. The Permittee shall demonstrate compliance with this requirements 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; and

- B. 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.
- 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 Permittee shall maintain the following records:
 - a. Monthly records of the aggregate processed (tons/mo, tons/yr);
 - b. Written records of the application of control measures as may be needed for compliance with the opacity limitations in Condition 5. The records shall include at least the following:
 - i. A map or diagram showing the location of all emission sources controlled including the location, identification, length, and width of roadways;
 - ii. For each application of water or chemical solution to roadways by truck: the name and location of the roadway controlled, application rate of each truck, frequency of each application, width of each application, identification of each truck used, total quantity of water or chemical used for each application and, for each application of chemical solution, the concentration and identity of the chemical;
 - iii. For application of physical or chemical control agents: the name of the agent, application rate and frequency, and total quantity of agent and, if diluted, percent of concentration, used each day;
 - iv. A log recording incidents when control measures were not used and a statement of explanation.
 - c. Weekly records of the moisture content measurements.
 - d. These records shall be submitted to the Illinois EPA within ten (10) working days after a written request by the Illinois EPA.

- e. The records required under this permit shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by the Illinois and US EPA representatives during working hours.
11. The Permittee shall submit to the Illinois EPA the following reports:
- a. An annual report containing a summary of the records required by Condition 10(b).
 - b. A quarterly report stating the following:
 - i. The dates any necessary control measures were not implemented;
 - ii. A listing of those control measures;
 - iii. The reasons that the control measures were not implemented; and
 - iv. Any corrective actions taken.
 - c. This information includes, but is not limited to, those dates when controls were not applied based on a belief that application of such control measures would have been unreasonable given prevailing atmospheric conditions, which shall constitute a defense to the requirements of Condition 5. This report shall be submitted to the Illinois EPA thirty (30) calendar days from the end of a quarter. Quarters end March 31, June 30, September 30, and December 31.
12. All records and logs required by this permit shall be retained at a readily 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 or 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.
13. If there is an exceedance of the requirements of this permit as determined by the records 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 recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.

14. 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 Illinois EPA
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
1701 South First Avenue
Maywood, Illinois 60153

15. Persons with lifetime operating permit must obtain a revised permit to any of the following changes at the source:
- a. An increase in emissions above the amount the emission unit or the source is permitted to emit;
 - b. A modification;
 - c. A change in operation that will result in the source's noncompliance with a condition in the existing permit;
 - d. A change in ownership, company name, or address, so that the application or existing permit is no longer accurate.

It should be noted that this permit has been revised to include operation of equipment described in Construction Permit 00010018 and no longer include operation of two primary crushers, one feeder, one conveyor and one surge bin.

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

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

DES:VJB:jar

cc: Region 1

ATTACHMENT A

Source	NSPS? Yes/No	Throughput Maximum TPH	Emission Factor (Lb/ton - TSP)	Controlled Yes/No	Emissions (Lb/Hr - TSP)	Emissions (Tons/Yr - TSP)
CONVEYORS						
E7	Yes	1,000	0.0001	Yes	0.1	0.17
E6	Yes	1,000	0.0001	Yes	0.1	0.17
E5	Yes	1,000	0.0001	Yes	0.1	0.17
E4	Yes	1,000	0.0001	Yes	0.1	0.17
E3	Yes	1,000	0.0001	Yes	0.1	0.17
E2	Yes	1,000	0.0001	Yes	0.1	0.17
E1	Yes	1,000	0.0001	Yes	0.1	0.17
#1	No	1,000	0.0001	Yes	0.1	0.17
#2	No	1,000	0.0001	Yes	0.1	0.17
#3	No	1,000	0.0001	Yes	0.1	0.17
C1	No	390	0.0001	Yes	0.04	0.07
C2	No	390	0.0001	Yes	0.04	0.07
C3	No	390	0.0001	Yes	0.04	0.07
C4	No	130	0.0001	Yes	0.01	0.02
C5	No	130	0.0001	Yes	0.01	0.02
C5A	No	130	0.0001	Yes	0.01	0.02
C6	No	130	0.0001	Yes	0.01	0.02
C7	No	130	0.0001	Yes	0.01	0.02
C8	No	125	0.0001	Yes	0.01	0.02
C9	No	116	0.0001	Yes	0.01	0.02
10A	No	21	0.0001	Yes	0.01	0.01
CA11	No	130	0.0001	Yes	0.01	0.02
#15	No	481	0.0001	Yes	0.05	0.09
#9A	No	82	0.0001	Yes	0.01	0.01
#20A	No	124	0.0001	Yes	0.01	0.02
#3C	No	268	0.0001	Yes	0.03	0.05
#3B	No	268	0.0001	Yes	0.01	0.02
#3A	No	82	0.0001	Yes	0.01	0.02

#4	No	82	0.0001	Yes	0.01	0.02
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Source	NSPS? Yes/No	Throughput Maximum TPH	Emission Factor (Lb/ton - TSP)	Controlled Yes/No	Emissions (Lb/Hr - TSP)	Emissions (Tons/Yr - TSP)
#11	No	234	0.0001	Yes	0.02	0.03
#12	No	234	0.0001	Yes	0.02	0.04
#13	No	78	0.0001	Yes	0.01	0.01
#14	No	234	0.0001	Yes	0.02	0.04
#5	No	234	0.0001	Yes	0.02	0.04
#17	No	78	0.0001	Yes	0.01	0.01
#10	No	134	0.0001	Yes	0.01	0.02
#20	No	268	0.0001	Yes	0.02	0.05
Feed Conveyor	No	208	0.0001	Yes	0.02	0.04
#16	No	208	0.0001	Yes	0.02	0.04
#5A	No	208	0.0001	Yes	0.02	0.04
#6	No	208	0.0001	Yes	0.02	0.04
#7	No	208	0.0001	Yes	0.02	0.04
#8	No	83	0.0001	Yes	0.01	0.01
#8A	No	83	0.0001	Yes	0.01	0.01
#9	No	156	0.0001	Yes	0.02	0.03
#64	No	156	0.0001	Yes	0.02	0.03
#65	No	234	0.0001	Yes	0.02	0.04
#1A	No	73	0.0001	Yes	0.01	0.01
#C1	No	34	0.0001	Yes	0.01	0.01
#9A	No	162	0.0001	Yes	0.02	0.03
#41	No	146	0.0001	Yes	0.01	0.03
#C1A	No	107	0.0001	Yes	0.01	0.02
#19	No	234	0.0001	Yes	0.02	0.04
#1	No	115	0.0001	Yes	0.01	0.02
TB3	No	115	0.0001	Yes	0.01	0.02
TB4	No	349	0.0001	Yes	0.03	0.06
R1	Yes	349	0.0001	Yes	0.03	0.006
R2	Yes	442	0.0001	Yes	0.04	0.08

R3	Yes	442	0.0001	Yes	0.04	0.08
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Source	NSPS? Yes/No	Throughput Maximum TPH	Emission Factor (Lb/ton - TSP)	Controlled Yes/No	Emissions (Lb/Hr - TSP)	Emissions (Tons/Yr - TSP)
R4	Yes	442	0.0001	Yes	0.04	0.08
R5	Yes	232	0.0001	Yes	0.02	0.04
R6	Yes	232	0.0001	Yes	0.02	0.04
R7	Yes	232	0.0001	Yes	0.02	0.04
CA11 Stacker	Yes	130	0.0001	Yes	0.01	0.02
FEEDERS						
Grizzly - Hewitt Robins	Yes	1,000	0.0001	Yes	0.1	0.17
Vibrating Grizzly	Yes	900	0.0001	Yes	0.09	0.16
A. C. Feeder	No	910	0.0001	Yes	0.09	0.16
A. C. Feeder	No	910	0.0001	Yes	0.09	0.16
Jeffrey	No	520	0.0001	Yes	0.05	0.09
CRUSHERS						
AC Jaw	Yes	900	0.0007	Yes	0.6	1.1
7' STD Symons	Yes	700	0.0012	Yes	0.8	1.5
Pioneer DR East	No	98	0.001	No (Enclosed)	0.1	0.17
Pioneer DR West	No	98	0.001	No (Enclosed)	0.1	0.17
Hazemag	No	390	0.00025	No (Enclosed)	0.4	0.69
4-1/4' Symons East	No	390	0.00025	Yes (Enclosed)	0.1	0.17
4-1/4' Symons West	No	290	0.00025	Yes (Enclosed)	0.1	0.17
4' Symons	No	260	0.00025	Yes (Enclosed)	0.07	0.11
5-1/2' Symons	No	360	0.00025	Yes (Enclosed)	0.09	0.16

Source	NSPS? Yes/No	Throughput Maximum TPH	Emission Factor (Lb/ton - TSP)	Controlled Yes/No	Emissions (Lb/Hr - TSP)	Emissions (Tons/Yr - TSP)
SCREENS						
Seco 6 x 16	No	950	0.00035	Yes (Enclosed)	0.33	0.57
Ripflow 6 x 16	No	150	0.00035	Yes (Enclosed)	0.05	0.09
Ripflow 6 x 16	No	150	0.00035	Yes (Enclosed)	0.05	0.09
AC 6 x 14	No	360	0.00035	Yes (Enclosed)	0.13	0.22
Simplicity 6 x 16	No	240	0.00035	Yes (Enclosed)	0.08	0.14
Simplicity 6 x 16	No	240	0.00035	Yes (Enclosed)	0.08	0.14
Tabor 5 x 10	No	170	0.00035	Yes (Enclosed)	0.06	0.1
Diester 5 x 10	No	150	0.00035	Yes (Enclosed)	0.05	0.09
Ripflow 6 x 16	No	170	0.00035	Yes (Enclosed)	0.06	0.1
Ripflow 6 x 16	No	170	0.00035	Yes (Enclosed)	0.06	0.1
AC 4 x 12	No	176	0.00035	Yes (Enclosed)	0.06	0.1
AC 6 x 16	No	176	0.00035	Yes (Enclosed)	0.06	0.1
Washing 6'x 16' (Wet Sys)	Yes	130	0	Yes	0	0
OTHER						
8000 Ton Silo	No	1,000	0.0001	Yes	0.1	0.17
1000 Ton Silo	No	520	0.0001	Yes	0.05	0.09

Source	NSPS? Yes/No	Throughput Maximum TPH	Emission Factor (Lb/ton - TSP)	Controlled Yes/No	Emissions (Lb/Hr - TSP)	Emissions (Tons/Yr - TSP)
Screenings Hopper	No	21	0.0001	Yes	0.01	0.01
3/4" Bin Hopper	No	163	0.0001	Yes	0.02	0.03
#6 Hopper	No	163	0.0001	Yes	0.02	0.03
#4 Hopper	No	163	0.0001	Yes	0.02	0.03
3"-8" Hopper	No	234	0.0001	Yes	0.02	0.04
3"-8" Hopper	No	234	0.0001	Yes	0.02	0.04
4' Hopper	No	78	0.0001	Yes	0.01	0.01
5-1/2' Hopper	No	208	0.0001	Yes	0.02	0.03
3" Hopper	No	163	0.0001	Yes	0.02	0.03
5-1/2" Hopper	No	163	0.0001	Yes	0.02	0.03
3/4" Hopper	No	163	0.0001	Yes	0.02	0.03
3/4" Hopper	No	163	0.0001	Yes	0.02	0.03
Screening Hopper	No	73	0.0001	Yes	0.01	0.01
Bucket Elevator	No	702	0.0001	Yes	0.07	0.12
Plant Hours/Year	3,450				Total TSP Ton/Year	11.05

VJB:vjbchart:jar