

(Continued)

<u>Emission Unit</u>	<u>Control Type</u>	<u>Control Efficiency, %</u>	<u>PM₁₀ Emissions</u>	
			<u>(Lb/Mo)</u>	<u>(Ton/Yr)</u>
Ground Coal	Filter	99	88	0.44
Railroad Car Loading	Filter	99	88	0.44
Silo #1	Filter	99	88	0.44
Silo #2	Filter	99	88	0.44
Silo #3	Filter	99	88	0.44
Silo #4 & #5	Filter	99	88	0.44
Silo #7	Filter	99	88	0.44
Silo #8	Filter	99	88	0.44
Silo #9	Filter	99	88	0.44
Bag Dump Hopper	Filter	99	20	0.10
Weigh Hopper	Filter	99	40	0.20
Mixing System	Filter	99	40	0.20
Finished Product	Filter	99	88	0.44
West Loadout	Filter	99	88	0.44
East Loadout	Filter	99	88	0.44
Truck Fill Silo #6	Filter	99	88	0.44
Ground Coal South Silo	Filter	99	88	0.44
				<u>70.46</u>

These limits are based on standard AP-42 emission factors; Table 11.23-1 for the coal mills (79.8 lb/ton) and bag dump, weigh hopper and mixing system (0.22 lb/ton); and Table 11.24-2 for all other processes (1.1 lb/ton).

- c. Compliance with annual limits shall be determined on a monthly basis using the data for the current month plus the sum of the data for the preceding 11 months.
3. The Permittee shall operate each process only when its emission control equipment is properly operating under the design specifications.
4. The Permittee shall maintain records of the following items:
 - a. Coal, clay, soda ash, cellulose usage in tons/month and tons/year.
 - b. Production of foundry sand additive in tons/month and tons/year.
 - c. Emissions: For each pollutant emitted, the pollutant type and quantity in lbs/month and tons/year.
- 5a. The Permittee shall, in accordance with the manufacturer and/or vendor recommendations, perform periodic maintenance on the pollution control equipment covered under this permit such that the pollution control equipment be kept in proper working condition and not cause a

violation of the Environmental Protection Act or regulations promulgated therein.

- b. For each fabric filter, the Permittee shall, at a minimum, perform internal and external inspections, twice each year. Permittee shall inspect for leaks, holes, seals, wear, and other problems, and promptly repair all problems found.
 - c. The Permittee shall maintain operating and maintenance logs for the pollution control equipment, including: maintenance activities, with date and description of inspections, repair actions, and equipment or filter bag replacements, etc.
 - d. 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 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 an Illinois EPA request for records during the course of a source inspection.
6. 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.
7. All reports, notifications, etc., required by this permit shall be sent to:
- Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276
- Illinois Environmental Protection Agency
Division of Air Pollution Control - Regional Office
9511 West Harrison
Des Plaines, Illinois 60016
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 Permittee shall submit an annual emission statement to the Illinois EPA by May 1st of each year. This report shall include as a minimum: amount of foundry sand additives produced (tons/year).
10. The Permittee shall not 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.

It should be noted that this permit incorporates operation of the equipment (replacement weigh hopper filter) specified in Construction Permit 01070050.

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

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

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

Attachment A - Actual Emissions Summary

This attachment provides a summary of the maximum emissions from this foundry sand manufacturing facility 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/yr of PM₁₀ 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. Production and emissions of particulate matter less than 10 microns shall not exceed the following limits:

Foundry Sand Additives Production: 160,000 tons/year

<u>Emission Unit</u>	<u>Control Type</u>	<u>Control Efficiency, %</u>	<u>PM₁₀ Emissions</u>	
			<u>(Lb/Mo)</u>	<u>(Ton/Yr)</u>
Coal Mill 030	Cyclone & Filter	99	6,400	31.9
Coal Mill 044	Cyclone & Filter	99	6,400	31.9
Ground Coal	Filter	99	88	0.44
Railroad Car Loading	Filter	99	88	0.44
Silo #1	Filter	99	88	0.44
Silo #2	Filter	99	88	0.44
Silo #3	Filter	99	88	0.44
Silo #4 & #5	Filter	99	88	0.44
Silo #7	Filter	99	88	0.44
Silo #8	Filter	99	88	0.44
Silo #9	Filter	99	88	0.44
Bag Dump Hopper	Filter	99	20	0.1
Weigh Hopper	Filter	99	40	0.2
Mixing System	Filter	99	40	0.2
Finished Product	Filter	99	88	0.44
West Loadout	Filter	99	88	0.44
East Loadout	Filter	99	88	0.44
Truck Fill Silo #9	Filter	99	88	0.44
Ground Coal South Silo	Filter	99	88	0.44
				<u>70.46</u>

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Attachment B - List of Permitted Equipment

<u>Description</u>	<u>Control</u>
Coal Mill 030	Cyclone and Dust Collector
Coal Mill 044	Cyclone and Dust Collector
Ground Coal	Filter
Railroad Car Loading	Filter
Silo #1	Filter
Silo #2	Filter
Silo #3	Filter
Silo #4 and #5	Filter
Silo #7	Filter
Silo #8	Filter
Bag Dump Hopper	Filter
Weigh Hopper	Filter
Mixing System	Filter
Finished Product Loading	Filter
West Loadout	Filter
East Loadout	Filter
Truck Fill Silo #9	Filter
Ground Coal South Silo	Filter
Heaters (9)	-----
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PROJECT SUMMARY

I. INTRODUCTION

The Hill and Griffith Co., has submitted an application to renew their Federally Enforceable State Operating Permit (FESOP) for their existing foundry aggregate facility. These FESOP limits would prevent the operation of the facility from being a major source of emissions so that an operating permit does not have to be obtained under the Clean Air Act Permit Program. The proposed limits would be accompanied by recordkeeping and reporting requirements to assure that the facility is operated as a non-major source. These conditions would be enforceable by both the State of Illinois and the USEPA.

II. SOURCE DESCRIPTION

Coal and Bentonite are received and processed through a series of hoppers, grinders, storage silos, etc., and sold in varying sizes to off-site customers.

III. EMISSIONS

The principal air contaminant of concern for this facility is particulate matter which is generated by the handling and processing of coal.

The proposed permit limits the potential annual emissions of particulate matter less than 10 microns in mean spherical diameter (PM₁₀) from the facility to less than 100 tons per year, thereby exempting this source from the requirements of the Clean Air Act Permit Program.

IV. APPLICABLE EMISSION STANDARDS

All emission sources in Illinois must comply with the Illinois Pollution Control Board emission standards. The board's emission standards represent the basis requirements for sources in Illinois. The board has standards for sources of PM₁₀ from processing operations. This site readily complies with all applicable Board standards.

V. PROPOSED PERMIT

The conditions of the proposed permit contain limitations and requirements to assure that the facility will be operated as a non-major source. This would exempt this facility from the requirements of the Clean Air Act permit program. The permit sets limitations on the amount of material handled at the site. These limitations are consistent with the historical operation and capacity of facility.

VI. REQUIES FOR COMMENTS

It is the Illinois EPA's preliminary determination that the facility meets all applicable state and federal air pollution control requirements, subject to the conditions proposed in the draft permit. The Illinois EPA is therefore proposing to renew this permit with federally enforceable limits for this operation.

Comments are requested on this proposed action by the Illinois EPA and the proposed conditions on the draft permit. If substantial public concern is shown in this matter, the Illinois EPA will consider holding a public hearing in accordance with 35 Ill. Adm. Code Part 164.

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