



Missouri Department of Natural Resources
Air Pollution Control Program

INTERMEDIATE STATE PERMIT TO OPERATE

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to operate the air contaminant source(s) described below, in accordance with the laws, rules, and conditions set forth here in.

Intermediate Operating Permit Number: OP2009-028
Expiration Date: SEP - 2 2014
Installation ID: 095-0076
Project Number: 2008-02-064

Installation Name and Address

Barber & Sons Company
11400 S. 7 Highway
Lee's Summit, MO 64086
Jackson County

Parent Company's Name and Address

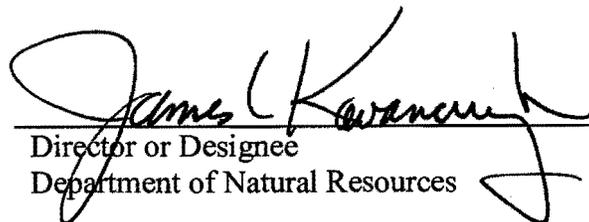
Barber & Sons Company
11400 S. 7 Highway
Lee's Summit, MO 64086

Installation Description:

Barber & Sons Company operates a rock crushing plant in Lee's Summit, Missouri. Rock is fractured by drilling and blasting operations, loaded on trucks and transported on haul roads to the processing area (at least 1,678 feet from the nearest boundary). The quarried stone is then crushed, conveyed, and sorted. After processing the rock, the sorted rock is stored in open storage piles and eventually loaded onto haul trucks to be taken off-site. Two diesel generators provide power for the quarry operations.

SEP - 3 2009

Effective Date


Director or Designee
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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

Barber & Sons Company operates a rock crushing plant in Lee's Summit, Missouri. Rock is fractured by drilling and blasting operations, loaded on trucks and transported on haul roads to the processing area (at least 1,678 feet from the nearest boundary). The quarried stone is then crushed, conveyed, and sorted. After processing the rock, the sorted rock is stored in open storage piles and eventually loaded onto haul trucks to be taken off-site. Two diesel generators provide power for the quarry operations.

The installation has the potential to be a major source for oxides of nitrogen and PM₁₀. However, the installation, in their Intermediate Operating Permit application, is choosing to limit the plant wide emissions to less than 100 tons per year for oxides of nitrogen, on a 12-month rolling average. The oxides of nitrogen limit and the PM₁₀ ambient air factor will limit PM₁₀ below major levels.

Bowen Construction Company operates an asphalt plant located on leased property within the quarry and has the county-plant number 095-0192.

Reported Air Pollutant Emissions, tons per year							
Year	Particulate Matter ≤ Ten Microns (PM-10)	Sulfur Oxides (SO _x)	Nitrogen Oxides (NO _x)	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Lead (Pb)	Hazardous Air Pollutants (HAPs)
2007	2.80	0.50	22.10	0.54	11.48	0.00	0.00
2006	5.79	0.97	43.03	1.06	21.94	0.00	0.0004
2005	9.89	0.86	38.83	0.96	19.39	0.00	0.0003
2004	21.13	0.37	19.53	0.50	7.47	0.00	0.0016
2003	18.56	0.75	29.57	0.87	17.64	0.00	0.00
2002	19.60	10.72	35.90	0.94	20.10	0.00	0.00

EMISSION UNITS WITH LIMITATIONS

The following list provides a description of the equipment at this installation which emits air pollutants and identified as having unit-specific emission limitations.

Emission Unit #	EQ Ref #	Description of Emission Unit
Old Primary Crushing Plant		
EU0010	EP-04	receiving hopper
EU0020	EP-05	grizzly feeder
EU0030	EP-07	conveyor
EU0040	EP-08	conveyor
EU0050	EP-10	conveyor
EU0060	EP-12	conveyor
EU0070	EP-25	conveyor
East Secondary Plant		
EU0080	EP-50	conveyor
EU0090	EP-52	conveyor
EU0100	EP-53	secondary crusher
EU0110	EP-54	conveyor
EU0120	EP-55	conveyor
EU0130	EP-56	conveyor
EU0140	EP-57	screen
EU0150	EP-58	conveyor
EU0160	EP-59	conveyor
EU0170	EP-61	conveyor
EU0180	EP-62	surge bin
EU0190	EP-63	truck load-out conveyor
EU0200	EP-64	conveyor
EU0210	EP-65	conveyor
EU0220	EP-66	screen
EU0230	EP-67	conveyor
EU0240	EP-68	surge bin
EU0250	EP-69	truck load-out conveyor
EU0260	EP-70	conveyor
EU0270	EP-71	surge bin
EU0280	EP-72	truck load-out conveyor
EU0290	EP-73	conveyor
EU0300	EP-74	surge bin
EU0310	EP-75	truck load-out conveyor
New Primary Crushing Plant		
EU0320	EP-89	primary crusher
EU0330	EP-90	conveyor
EU0340	EP-93	conveyor
EU0350	EP-167	Conveyor

West Secondary Plant

EU0360	EP-174	conveyor
EU0370	EP-175	secondary crusher
EU0380	EP-176	screen
EU0390	EP-177	undercrusher conveyor
EU0400	EP-178	conveyor
EU0410	EP-179	conveyor
EU0420	EP-180	conveyor
EU0430	EP-181	screen
EU0440	EP-182	conveyor
EU0450	EP-183	stacker
EU0460	EP-185	conveyor
EU0470	EP-186	conveyor
EU0480	EP-188	conveyor
EU0490	EP-189	stacker
EU0500	EP-190	conveyor
EU0510	EP-191	underscreen conveyor
EU0520	EP-192	conveyor
EU0530	EP-193	conveyor
EU0540	EP-194	conveyor
EU0550	EP-195	stacker
EU0560	EP-196	conveyor
EU0570	EP-197	conveyor
EU0580	EP-199	stacker
EU0590	EP-200	stacker
EU0600	EP-201	stacker

Generators

EU0610	EP-85	Generator #1-IC Engine 2000 KW
EU0620	EP-86	Generator #2-IC Engine 2000 KW

Haul Roads

EU0630	EP-03	Pit-to-Plant Haul Road
EU0640	EP-81	Product Haul Road

Storage Piles

EU0650	EP-09	Old Primary Crushing Surge Pile #1
EU0660	EP-13	Old Primary Crushing Surge Pile #2
EU0670	EP-92	New Primary Crushing Surge Piles
EU0680	EP-80	East Secondary Plant Open Storage
EU0690	EP-184	West Secondary Plant Open Storage
EU0700	EP-198	Wash Plant Open Storage

EMISSION UNITS WITHOUT LIMITATIONS

The following list provides a description of the equipment, which does not have unit specific limitations at the time of permit issuance.

<u>EIQ Ref #</u>	<u>Description of Emission Point</u>
EP-01	drilling
EP-02a	blasting
EP-02b	blasting-dynamite
EP-02c	blasting-ANFO
EP-82b	diesel oil storage tank-working loss
EP-82a	diesel oil storage tank-breathing loss

DOCUMENTS INCORPORATED BY REFERENCE

This permit incorporates the following documents by reference:

Construction Permit 122003-011

II. Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect on the date of permit issuance.

Permit Condition PW001
10 CSR 10-6.060 Construction Permits Required
Construction Permit 122003-011, Issued November 14, 2003
Special Condition 1 - NAAQS Limitation for PM₁₀

Emission Limitation:

National Ambient Air Quality Standards (NAAQS)

Barber & Sons Company plant – 095-0076 (referred to as “installation”) shall demonstrate that the daily impact on ambient air quality from this installation does not exceed the 24-hour NAAQS of 150 µg/m³ for particulate matter less than ten (10) microns in diameter (PM₁₀) at or beyond the nearest property boundary while operating at this site.

[122003-011, Special Condition 1.A.]

Monitoring/Recordkeeping

See Attachment F, Compliance Plan items 1 and 2.

The installation shall maintain a daily record of material processed to demonstrate compliance with the above ambient impact limitation. The installation shall use Attachment A, *Daily Ambient PM₁₀ Impact Tracking Record* or other equivalent form(s) for this purpose. The installation shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources’ personnel upon request. (NOTE: Compliance with the above ambient impact limitation is directly related to a maximum daily production level that is stated on the bottom of Attachment A. [122003-011, Special Condition 1.B.]

Reporting:

The installation shall report to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of the ambient PM₁₀ impact limitation established for this installation (no more than 150.0 µg/m³ of PM¹⁰ during any 24-hour period at or beyond the property boundaries). [122003-011, Special Condition 1.C.]

Rule Citation and Special Condition Justification: 10-6.010 “Ambient Air Quality Standards”, 10 CSR 10-6.060 subsections (5)(D) and (6)(A). The air quality analysis of the rock crushing plant’s daily production limit(s) and condition(s) to ensure compliance with NAAQS.

Permit Condition PW002

**10 CSR 10-6.060 Construction Permits Required
Construction Permit 122003-011, Issued November 14, 2003
Special Condition 11 Prohibition Against Concurrent Operations Without Further Air
Pollution Control Program Review**

Operational Limitation:

The installation (95-0076) is prohibited from operating this rock crushing plant concurrently with any other plant(s) at this site.

Permit Condition PW003

**10 CSR 10-6.060 Construction Permits Required
Construction Permit 122003-011, Issued November 14, 2003
Special Condition 12 Restriction on Minimum Distance to Nearest Property Boundary**

Operational Limitation:

The installation shall be located at least 1,678 feet from the nearest property boundary whenever this plant is being operated at this site.

Permit Condition PW004

10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants¹

Emission Limitation:

- 1) No owner or other person shall cause or permit emissions to be discharged into the atmosphere from any existing source any visible emissions with an opacity greater than 20 percent.
- 2) No owner or other person shall cause or permit emissions to be discharged into the atmosphere from any new source any visible emissions with an opacity greater than 20 percent.
- 3) Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six minutes in any 60 minutes air contaminants with an opacity up to 60 percent.

Monitoring:

The permittee shall conduct opacity readings on the emission unit(s) using the procedures contained in U.S. EPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit(s) is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source

¹ 10 CSR 10-6.220 – Permit Condition PW004 does not apply to emission units regulated by 40 CFR Part 60, Subpart OOO.

representative would then conduct a Method 9 observation. The following monitoring schedule must be maintained:

- 1) Observations must be made once per month. If a violation is noted, then
- 2) Weekly observations shall be conducted for a minimum of eight consecutive weeks. Should no violation of this regulation be observed during this period then monitoring reverts to monthly monitoring.

Recordkeeping

The permittee shall maintain records of all observation results (see Attachment C, D and/or E), noting:

- 1) Whether any air emissions (except for water vapor) were visible from the emission units,
- 2) All emission units from which visible emissions occurred, and
- 3) Whether the visible emissions were normal for the process.
- 4) The permittee shall maintain records of any equipment malfunctions.
- 5) The permittee shall maintain records of any other Method 9 test performed in accordance with this permit condition. Attachments C, D and E contain logs including these record keeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.

Reporting:

- 1) The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the permittee determined using the Method 9 test that the emission unit(s) exceeded the opacity limit.
- 2) Reports of any deviations from monitoring, record keeping and reporting requirements of this permit condition shall be submitted annually in the annual compliance certification and monitoring report, as required by Section V General Permit Conditions of this permit.

Permit Condition PW005

10 CSR 10-6.065 Operating Permits

10 CSR 10-6.065(2)(C) and 10 CSR 10-6.065(5)(A) Voluntary Limitation(s)

Emission Limitation:

The permittee shall discharge into the atmosphere from the entire installation less than 100 tons of particulate matter with an aerodynamic diameter of less than or equal to 10 microns (PM₁₀) in any consecutive 12-month period.

Permit Condition PW006

10 CSR 10-6.065 Operating Permits

10 CSR 10-6.065(2)(C) and 10 CSR 10-6.065(5)(A) Voluntary Limitation(s)

Emission Limitation:

The permittee shall discharge into the atmosphere from the entire installation less than 100 tons of nitrogen oxides (NO_x) in any consecutive 12-month period.

Monitoring/Recordkeeping:

The permittee shall maintain an accurate record of emissions of NO_x emitted into the atmosphere from this installation. The permittee shall record the monthly and running 12-month totals of the

NO_x emissions from this installation. An example form is attached as Attachment B (Plant-wide Emissions Tracking Record). The permittee may use this form, or forms of its own, so long as the forms used will accurately demonstrate compliance with the NO_x emission limitation (less than 100 tons per consecutive 12-month period of NO_x).

Reporting:

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this permit condition, or any malfunction which causes a deviation from or exceedance of this permit condition.

III. Emission Unit Specific Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect on the date of permit issuance.

EU0010-001 through EU0600-001 Crushers, Feeders, Screens, Conveyors and Storage Bins						
Emission Unit	Description	Manufacturer/Model #	MDHR (tons)	2007 EIQ Control	Const Date	2007 EIQ Ref #
EU0010	receiving hopper	Van Keppel	1500	none	4/94	EP-04
EU0020	grizzly feeder	Cedarapids, UGF	1500	none	4/94	EP-05
EU0030	conveyor	Van Keppel	350	Spray	4/94	EP-07
EU0040	conveyor	Cedarapids	350	Spray	12/82	EP-08
EU0050	conveyor	Van Keppel	350	none	4/94	EP-10
EU0060	conveyor	Cedarapids	350	Spray	11/83	EP-12
EU0070	conveyor	Cedarapids	300	>1.5 percent	12/82	EP-25
EU0080	conveyor	Cedarapids	350	>1.5 percent	11/83	EP-50
EU0090	conveyor	Universal, 151	250	>1.5 percent	9/86	EP-52
EU0100	secondary crusher	Universal,130/150	250	Spray	10/86	EP-53
EU0110	conveyor	Universal, 151	300	>1.5 percent	9/86	EP-54
EU0120	conveyor	Universal, 361	350	>1.5 percent	9/86	EP-55
EU0130	conveyor	Universal,151	250	>1.5 percent	9/86	EP-56
EU0140	screen	SECO, 2F-107	250	>1.5 percent	5/86	EP-57
EU0150	conveyor		200	none	<1983	EP-58
EU0160	conveyor	Universal, 361	100	none	9/86	EP-59
EU0170	conveyor	Marco or FEHRS, 83	75	none	2/86	EP-61
EU0180	surge bin	Peerless, 17550C	75	none	6/83	EP-62
EU0190	truck load-out conveyor	Peerless. 17550C	75	none	6/83	EP-63
EU0200	conveyor		200	none	<1983	EP-64
EU0210	conveyor	Marco or FEHRS, 540TC	200	none	4/85	EP-65
EU0220	screen	SECO, 2F-104	300	none	1/86	EP-66
EU0230	conveyor	Peerless, 17550A	100	none	6/83	EP-67
EU0240	surge bin	Peerless, 17550A	100	none	6/83	EP-68
EU0250	truck load-out conveyor	Peerless, 17550A	100	none	6/83	EP-69
EU0260	conveyor	Peerless, 17550B	100	none	6/83	EP-70
EU0270	surge bin	Peerless, 17550B	100	none	6/83	EP-71
EU0280	truck load-out	Peerless, 17550B	100	none	6/83	EP-72

	conveyor					
EU0290	conveyor	Peerless, 17550D	100	none	6/83	EP-73
EU0300	surge bin	Peerless, 17550D	100	none	6/83	EP-74
EU0310	truck load-out	Peerless, 17550D	100	none	6/83	EP-75
	conveyor					
EU0320	primary crusher	Svedala, 6275	3000	>1.5	6/05	EP-89
				percent		
EU0330	conveyor	Svedala	3000	>1.5	6/05	EP-90
				percent		
EU0340	conveyor	Svedala	3000	>1.5	6/05	EP-93
				percent		
EU0350	conveyor	Svedala	3000	>1.5	6/05	EP-167
				percent		
EU0360	conveyor	Peerless	300	Spray	7/02	EP-174
EU0370	secondary crusher	Cedarapids, 5064	350	Spray	11/00	EP-175
EU0380	screen	Cedarapids, TSH6203-32	350	Spray	12/00	EP-176
EU0390	undercrusher	Peerless	350	Spray	?	EP-177
	conveyor					
EU0400	conveyor	Peerless	300	Spray	6/02	EP-178
EU0410	conveyor	Peerless	300	Spray	6/02	EP-179
EU0420	conveyor	Peerless	300	Spray	5/02	EP-180
EU0430	screen	Cedarapids, FSG6203-32	300	Spray	2/01	EP-181
EU0440	conveyor	Peerless	300	Spray	?	EP-182
EU0450	stacker	Peerless	300	Spray	6/02	EP-183
EU0460	conveyor	Peerless	300	Spray	?	EP-185
EU0470	conveyor	Peerless	300	Spray	6/02	EP-186
EU0480	conveyor	Peerless	300	Spray	6/02	EP-188
EU0490	stacker	Peerless	300	Spray	6/02	EP-189
EU0500	conveyor	Peerless	300	Spray	?	EP-190
EU0510	underscreen	Peerless	300	Spray	?	EP-191
	conveyor					
EU0520	conveyor	Peerless	300	Spray	6/02	EP-192
EU0530	conveyor	Peerless	300	Spray	6/02	EP-193
EU0540	conveyor	Peerless	300	Spray	6/02	EP-194
EU0550	stacker	Peerless	300	Spray	5/02	EP-195
EU0560	conveyor	Peerless	300	Spray	?	EP-196
EU0570	conveyor	Peerless	300	Spray	6/02	EP-197
EU0580	stacker	Peerless	300	Spray	5/02	EP-199
EU0590	stacker	Peerless	300	Spray	5/02	EP-200
EU0600	stacker	Peerless	300	Spray	5/02	EP-201

Permit Condition EU0010-001 through EU0600-001
10 CSR 10-6.060 Construction Permits Required
Construction Permit 122003-011, November 14, 2003
Special Condition 4 - Generic Plant Designation for Stationary Installation

Operational Limitation:

Barber & Sons Company’s rock crushing plant (referred to as “installation”), is considered to be a generic stationary plant operation. The combined Maximum Hourly Design Rate (MHDR) for the primary unit(s) and each of the following generic equipment types shall not exceed the maximum installation capacities listed below at any time and/or site location while the installation is being operated. [Construction Permit 122003-011, Special Condition 4.A.]

Equipment Type	Maximum Combined Hourly Design Rate Capacity
Primary Unit (Primary Crusher)	3,350 tons per hour
Secondary Crusher(s)	3,700 tons per hour
Conveyor(s), Stacker(s)	71,995 tons per hour
Screen(s)	15,044 tons per hour
Hoppers	3,000 tons per hour
Storage Bin(s)	6,000 tons per hour

Recordkeeping:

- 1) Barber & Sons Company shall keep an updated list of the following information for each piece of equipment that is being used as part of this generic stationary plant operation. The documentation shall be available on-site:
[Construction Permit 122003-011, Special Condition 4.B.]
 - a) A listing of the core equipment that will always be utilized with 095-0076. This listing of core equipment shall, at a minimum, include the manufacturer’s name, model number, serial number and any company assigned equipment number (if applicable). In addition, this core equipment grouping being associated with 095-0076 shall, at least include one key piece of equipment (generally either a crusher and/or a screen);
 - b) A listing of all other supplemental equipment that will be approved for usage with 095-0076. This listing of supplemental equipment shall, at a minimum, include the manufacturer’s name, model number, serial number and any company assigned equipment number (if applicable);
 - c) To assure that each component is properly identified as being a part of this generic installation, Barber & Sons Company shall provide and maintain suitable, easily read permanent markings on each component of the installation. These markings shall be the equipment’s serial number or a company assigned identification number that uniquely identifies the individual component;
 - d) A listing of the actual MHDR, the date of manufacture and any other additional information such as sizes and/or dimensions that is necessary to uniquely identify all of the equipment mentioned above;
 - e) A determination on the applicability of 40 CFR Part 60, Subpart “OOO”, Standards of Performance for Nonmetallic Mineral Processing Plants for each piece of equipment with justification for this applicability determination.
 - f) A list of the specific pieces(s) of supplemental equipment that are to be initially utilized with this generic stationary plant operation.
 - g) The installation shall submit notification to APCP Enforcement Section if the core equipment is changed or if new equipment is added to the supplemental equipment list.
- 2) Barber & Sons Company shall maintain at all times a list of the specific supplemental equipment currently being utilized with the generic stationary plant operation at all times.

The installation shall immediately make this list of the supplemental equipment currently being used available to any Missouri Department of Natural Resources' personnel upon request. [Construction Permit 122003-011, Special Condition 4.C.]

Permit Condition EU0320-002

**10 CSR 10-6.060 Construction Permits Required
Construction Permit 122003-011, Issued November 14, 2003
Special Condition 8 - Moisture Content Testing Requirement for Inherent Moisture
Content**

Operational Limitation:

Moisture content testing requirement for inherent moisture content in lieu of usage of wet suppression control system on equipment (Construction Permit 122003-011, Special Condition 7). Particulate emissions will be controlled by the moisture content of the processed rock once documentation of inherent moisture content greater than 1.5 percent by weight is provided as outlined below. If test results should indicate the final moisture content of the rock is less than 1.5 percent by weight, then the installation will need to install wet suppression units on all crushing, screening and conveying operations.

Monitoring/Recordkeeping

The installation shall conduct moisture content test(s) in accordance with the test methods and procedures prescribed in the *American Society for Testing Materials (ASTM), Designation D-2216 Standard Test Methods for Laboratory Determination of Water (moisture) Content of Soil or Rock*, ASTM C-566, *Standard Test Method for Total Moisture Content of Aggregate by Drying* or other moisture content testing method(s) approved by the Director. Rock samples shall be obtained prior to the primary crusher. If test results should indicate that final moisture content of the rock is greater than 1.5 percent by weight, then the installation will continue to do additional testing every two (2) years, during the months of June through September, while the installation is operating at this site.

Reporting:

Two (2) copies of a written report of the moisture content test shall be submitted to the Kansas City Regional Office within 30 days of completion of the required test and shall include the wet weight, dry weight, drying time and moisture content of each rock sample, the test date, and the name and title of the individual performing the moisture content analysis. The installation shall maintain a record of the above testing information and make it immediately available upon request by Department of Natural Resources' personnel.

Rule Citation and Special Condition Justification: The rock crushing plant, in their construction permit application, requested these specific equipment and/or control measures to reduce the amount of air pollutants being emitted. The proper operations and continued usage of the above proposed control equipment/ and measures was relied on to calculate the emissions for this project and determine the applicability of 10 CSR 10-6.060. Therefore, according to 10 CSR 10-6.060 paragraph (6)(E)3 and 10 CSR 10-6.060 paragraph (12)(A)10 the rock crushing plant is required to construct and operate as requested.

**Permit Condition EU0030-002, EU0050-002, EU0060-002,
EU0080-002 through EU0140-002, EU0160-002, EU0170-002, EU0210-002,
EU0220-002, EU0320-003, EU0330-002 through EU0600-002**

**10 CSR 10-6.070 New Source Performance Regulations
40 CFR Part 60 Subpart OOO Standards of Performance for Nonmetallic Minerals
Processing Plants**

Emission Limitation:

Affected facilities must meet the fugitive emission limits and compliance requirements in Table 3 of this subpart within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11. The requirements in Table 3 of this subpart apply to fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems.

§60.672(b)

Affected facilities (as defined in §60.670 and §60.671), that commenced construction, modification, or reconstruction after August 31, 1983, but before April 22, 2008, must meet the fugitive emission limits and compliance requirements below. [Table 3 to Subpart OOO-Fugitive Emission Limits]

- 1) The owner or operator must meet the following fugitive emissions limit for grinding mills, screening operations, bucket elevators, belt conveyors (including transfer points), bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §60.670 and §60.671): 10 percent opacity. [Table 3 to Subpart OOO-Fugitive Emission Limits]
- 2) The owner or operator must meet the following fugitive emissions limit for crushers at which a capture system is not used: 15 percent opacity. [Table 3 to Subpart OOO-Fugitive Emission Limits]

Test Methods and Procedures:

- 1) In determining compliance with the particulate matter standards in §60.672(b), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in §60.11, with the following additions. §60.675(c)(1)
 - a) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). [40 CFR 60.675(c)(1)(i)]
 - b) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9 of Appendix A-4 of this part, Section 2.1) must be followed. [40 CFR 60.675(c)(1)(ii)]
 - c) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible. [40 CFR 60.675(c)(1)(iii)]
- 2) When determining compliance with the fugitive emissions standard for any affected facility described under §60.672(b) of this subpart, the duration of the Method 9 (40 CFR Part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. [40 CFR 60.675(c)(3)]

Monitoring:

- 1) The permittee shall conduct opacity readings on the emission unit(s) using the procedures contained in U.S. EPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit(s) is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
- 2) The following monitoring schedule must be maintained:
 - a) Observations must be made once per month. If a violation is noted, then
 - b) Weekly observations shall be conducted for a minimum of eight consecutive weeks. Should no violation of this regulation be observed during this period then monitoring reverts to monthly monitoring.
 - c) The permittee shall conduct an annual opacity measurement on the emission units by U.S. EPA Test Method 9 with a certified Method 9 observer using the test methods and procedures described above

Recordkeeping:

- 1) The permittee shall maintain records of all observation results (see Attachment C and D), noting:
 - a) Whether any air emissions (except for water vapor) were visible from the emission units,
 - b) All emission units from which visible emissions occurred, and
 - c) Whether the visible emissions were normal for the process.
 - d) The permittee shall maintain records of any equipment malfunctions.
- 2) The permittee shall maintain records of any other Method 9 test performed in accordance with this permit condition. (See Attachment E)
- 3) Attachments C, D, and E contain logs including these record keeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.

Reporting:

- 1) The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the permittee determined using the Method 9 test that the emission unit(s) exceeded the opacity limit.
- 2) Reports of any deviations from monitoring, record keeping and reporting requirements of this permit condition shall be submitted annually in the annual compliance certification and monitoring report, as required by Section V of this permit.

EU0610-EU0620 Generators			
EU0610	Generator #1-IC Engine	Kohler Generator/Detroit Diesel Engine	EP-85
EU0620	Generator #2-IC Engine	Kohler Generator/Detroit Diesel Engine	EP-86

<p>Permit Condition EU0610-01 and 0620-01 10 CSR 10-6.260 Restriction of Emissions of Sulfur Compounds ²</p>
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Emission Limitation:

- 1) Emissions from this source shall not contain more than 500 parts per million by volume (ppmv) of sulfur dioxide or more than 35 milligrams per cubic meter (mg/m³) of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three hour time period.
- 2) No person shall cause or permit the emission of sulfur compounds from any source which causes or contributes to concentrations exceeding those specified in 10 CSR 10-6.010 Ambient Air Quality Standards. [10 CSR 10-6.260(3)(B) & 10 CSR 10-6.010 Ambient Air Quality Standards]

Pollutant	Concentration by Volume	Remarks
Sulfur Dioxide (SO ₂)	0.03 parts per million (ppm) (80 micrograms per cubic meter (µg/m ³))	Annual arithmetic mean
	0.14 ppm (365 µg/m ³)	24-hour average not to be exceeded more than once per year
	0.5 ppm (1300 µg/m ³)	3-hour average not to be exceeded more than once per year
Hydrogen Sulfide (H ₂ S)	0.05 ppm (70 µg/m ³)	½-hour average not to be exceeded over 2 times per year
	0.03 ppm (42 µg/m ³)	½-hour average not to be exceeded over 2 times in any 5 consecutive days
Sulfuric Acid (H ₂ SO ₄)	10 µg/m ³	24-hour average not to be exceeded more than once in any 90 consecutive days
	30 µg/m ³	1-hour average not to be exceeded more than once in any 2 consecutive days

Operational Limitation:

The emission units shall be limited to burning fuel oil with a sulfur content of no more than 0.05 percent sulfur by weight. The fuel oils known to be less than 0.05 percent by weight sulfur per Chapter 414 RSMo, Section 414.032, ASTM D396-Table 1 and ASTM D975-Table 1, are fuel oil No. 1 and No. 2 and diesel fuel oil Grade Low Sulfur No. 1-D, Grade Low Sulfur No. 2-D. However, these units are not limited to the known fuel oils listed above, but are limited to fuel oils based solely on a percent sulfur by weight content of 0.05 percent or less.

Monitoring/Recordkeeping:

The permittee shall maintain records of the fuel type used verifying a sulfur content less than 0.05 percent by weight. Purchase receipts, analyzed samples or certifications that verify the fuel type as a grade level with a sulfur content less than 0.05 percent by weight will be acceptable.

² 10 CSR 10-6.260(3)(B) is a state-only requirement

Reporting:

The permittee shall report any deviations/exceedances of this permit condition using the annual monitoring report and annual compliance certification to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

EU0630-EU0700 Fugitive Emission Sources		
EU0630	Pit-to-Plant Haul Road (formerly EP-88)	EP-03
EU0640	Product Haul Road (formerly EP-206)	EP-81
EU0650	Old Primary Crushing Surge Pile #1	EP-09
EU0660	Old Primary Crushing Surge Pile #2	EP-13
EU0670	New Primary Crushing Surge Piles	EP-92
EU0680	East Secondary Plant Open Storage	EP-80
EU0690	West Secondary Plant Open Storage	EP-184
EU0700	Wash Plant Open Storage	EP-198

Permit Condition EU0630-01 through EU0700-01

**10 CSR 10-6.060 Construction Permits Required
Construction Permit 122003-011
Special Condition 5 – Haul Roads-Watering (>50 percent Control)**

Operational Limitation:

The installation shall control the emission of PM₁₀ from the fugitive emission sources at this site including, but not limited to, the haul roads & vehicular activity areas around the storage pile(s) by consistently and correctly using the application of a water spray to the above sources. The installation shall apply this documented watering control, as necessary, to maintain the high level of PM₁₀ emissions control predicted for these sources whenever conditions exist that would allow the "appreciable visible emission" of particulate matter to occur from the surface of the unpaved road(s). The following conditions shall apply to the unpaved haul roads EP-03 (formerly EP-88) while the plant is operating at this location: [Construction Permit 122003-011, Special Condition 5.A.]

- 1) The water spray shall be applied at a minimum rate of 0.1628 gallons per square foot to the surface of Pit-to-Plant Haul Road, EP-03 (formerly EP-88), at least once every 8.0 hours whenever this source is in use,
- 2) A quarter inch or more rainfall during the preceding 24-hours may be substituted for one (1) daily water application, and
- 3) Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons or when there will be no traffic on the roads/vehicular traffic areas.

Monitoring/Recordkeeping

The installation shall keep the following records, at the plant, for not less than five (5) years and shall make these records available to Department of Natural Resources personnel upon request:

- 1) The estimated surface area of the unpaved haul road(s) and the vehicular traffic activities around the storage pile(s);

- 2) Water tank size, total surface area of unpaved road/vehicular traffic areas to be watered, and the resultant number of fills necessary to accomplish the required application rate;
- 3) Records of watering equipment breakdowns and repairs; and
- 4) Records of one (1) of the following:
 - a) A daily log initiated by the responsible facility operator of the roads watered and indicating the time, date and the approximate amount of water applied for each application of the water spray on the above sources; or
 - b) A notation that there was a quarter inch, or greater rainfall within the past 24-hours, or
 - c) A notation if watering was suspended during periods of freezing conditions, or
 - d) A notation that the plant was not in operation.

Permit Condition EU0640-02 & EU0680-02 through EU0700-02
10 CSR 10-6.060 Construction Permits Required
Construction Permit 122003-011, Issued November 14, 2003
Special Condition 6 - Haul Road and Vehicular Areas of Storage Piles Requirements –
Paving

Operational Limitation:

- 1) See Attachment F: Compliance Plan, item 2.
- 2) The installation shall periodically water and/or wash the paved portions of the above affected haul road(s) and vehicular activity areas of the storage piles such that no “appreciable visible emission” of particulate matter is allowed to occur from the surface of these paved road(s) while this installation is operating at this site.

IV. Core Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR), Code of State Regulations (CSR), and local ordinances for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect on the date of permit issuance.

10 CSR 10-6.050 Start-up, Shutdown and Malfunction Conditions

- 1) In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the Director within two business days, in writing, the following information:
 - a) Name and location of installation;
 - b) Name and telephone number of person responsible for the installation;
 - c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
 - d) Identity of the equipment causing the excess emissions;
 - e) Time and duration of the period of excess emissions;
 - f) Cause of the excess emissions;
 - g) Air pollutants involved;
 - h) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;
 - i) Measures taken to mitigate the extent and duration of the excess emissions; and
 - j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
- 2) The permittee shall submit the paragraph 1 information list to the Director in writing at least ten days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the Director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within ten working days.
- 3) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under Section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph 1 list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the Director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under Section 643.080 or 643.151, RSMo.
- 4) Nothing in this rule shall be construed to limit the authority of the Director or commission to take appropriate action, under Sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.
- 5) Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

10 CSR 10-6.060 Construction Permits Required

The permittee shall not commence construction, modification, or major modification of any installation subject to this rule, begin operation after that construction, modification, or major modification, or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

10 CSR 10-6.065 Operating Permits

The permittee shall file a complete application for renewal of this operating permit at least six months before the date of permit expiration. In no event shall this time be greater than eighteen months. [10 CSR 10-6.065(5)(B)1.A(III)] The permittee shall retain the most current operating permit issued to this installation on-site. [10 CSR 10-6.065, §(5)(C)(1) and §(6)(C)1.C(II)] The permittee shall immediately make such permit available to any Missouri Department of Natural Resources personnel upon request. [10 CSR 10-6.065, §(5)(C)(1) and §(6)(C)3.B]

10 CSR 10-6.110 Submission of Emission Data, Emission Fees and Process Information

- 1) The permittee shall complete and submit an Emission Inventory Questionnaire (EIQ) in accordance with the requirements outlined in this rule.
- 2) The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079.
- 3) The fees shall be payable to the Department of Natural Resources and shall be accompanied by the Emissions Inventory Questionnaire (EIQ) form or equivalent approved by the Director.

10 CSR 10-6.130 Controlling Emissions During Episodes of High Air Pollution Potential

This rule specifies the conditions that establish an air pollution alert (yellow/orange/red/purple), or emergency (maroon) and the associated procedures and emission reduction objectives for dealing with each. The permittee shall submit an appropriate emergency plan if required by the Director.

10 CSR 10-6.150 Circumvention

The permittee shall not cause or permit the installation or use of any device or any other means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.

10 CSR 10-6.170 Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin

- 1) The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line of origin. The nature or origin of the particulate matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the Director.

- 2) The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.
- 3) Should it be determined that noncompliance has occurred, the Director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:
 - a) Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
 - b) Paving or frequent cleaning of roads, driveways and parking lots;
 - c) Application of dust-free surfaces;
 - d) Application of water; and
 - e) Planting and maintenance of vegetative ground cover.

10 CSR 10-6.180 Measurement of Emissions of Air Contaminants

- 1) The Director may require any person responsible for the source of emission of air contaminants to make or have made tests to determine the quantity or nature, or both, of emission of air contaminants from the source. The Director may specify testing methods to be used in accordance with good professional practice. The Director may observe the testing. All tests shall be performed by qualified personnel.
- 2) The Director may conduct tests of emissions of air contaminants from any source. Upon request of the Director, the person responsible for the source to be tested shall provide necessary ports in stacks or ducts and other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of the emission of air contaminants.
- 3) The Director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

10 CSR 10-5.060 Refuse Not to be Burned in Fuel Burning Installations (Contained in State Implementation Plan)

No person shall burn or cause or permit the burning of refuse in any installation which is designed for the primary purpose of burning fuel.

10 CSR 10-6.045 Open Burning Requirements

- 1) General Provisions. The open burning of tires, petroleum-based products, asbestos containing materials, and trade waste is prohibited, except as allowed below. Nothing in this rule may be construed as to allow open burning which causes or constitutes a public health hazard, nuisance, a hazard to vehicular or air traffic, nor which violates any other rule or statute.
- 2) Refer to the regulation for a complete list of allowances. The following is a listing of exceptions to the allowances:
 - a) Burning of household or domestic refuse. Burning of household or domestic refuse is limited to open burning on a residential premises having not more than four dwelling units, provided that the refuse originates on the same premises, with the following exceptions:
 - i) Kansas City metropolitan area. The open burning of household refuse must take place in an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of Kansas City and every contiguous municipality;

- ii) Springfield-Greene County area. The open burning of household refuse must take place outside the corporate limits of Springfield and only within areas zoned A-1, Agricultural District;
- iii) St. Joseph area. The open burning of household refuse must take place within an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of St. Joseph; and
- iv) St. Louis metropolitan area. The open burning of household refuse is prohibited;
- b) Yard waste, with the following exceptions:
 - i) Kansas City metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation shall require an open burning permit;
 - ii) Springfield-Greene County area. The City of Springfield requires an open burning permit for the open burning of trees, brush or any other type of vegetation. The City of Springfield prohibits the open burning of tree leaves;
 - iii) St. Joseph area. Within the corporate limits of St. Joseph, the open burning of trees, tree leaves, brush or any other type of vegetation grown on a residential property is allowed during the following calendar periods and time-of-day restrictions:
 - (1) A three (3)-week period within the period commencing the first day of March through April 30 and continuing for twenty-one (21) consecutive calendar days;
 - (2) A three (3)-week period within the period commencing the first day of October through November 30 and continuing for twenty-one (21) consecutive calendar days;
 - (3) The burning shall take place only between the daytime hours of 10:00 a.m. and 3:30 p.m.; and
 - (4) In each instance, the twenty-one (21)-day burning period shall be determined by the Director of Public Health and Welfare of the City of St. Joseph for the region in which the City of St. Joseph is located provided, however, the burning period first shall receive the approval of the Department Director; and
 - iv) St. Louis metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation is limited to the period beginning September 16 and ending April 14 of each calendar year and limited to a total base area not to exceed sixteen (16) square feet. Any open burning shall be conducted only between the hours of 10:00 a.m. and 4:00 p.m. and is limited to areas outside of incorporated municipalities;
- 3) Certain types of materials may be open burned provided an open burning permit is obtained from the Director. The permit will specify the conditions and provisions of all open burning. The permit may be revoked if the owner or operator fails to comply with the conditions or any provisions of the permit.
- 4) Barber & Sons Company may be issued an annually renewable open burning permit for open burning provided that an air curtain destructor or incinerator is utilized and only tree trunks, tree limbs, vegetation or untreated wood waste are burned. Open burning shall occur at least two hundred (200) yards from the nearest occupied structure unless the owner or operator of the occupied structure provides a written waiver of this requirement. Any waiver shall accompany the open burning permit application. The permit may be revoked if Barber & Sons Company fails to comply with the provisions or any condition of the open burning permit.
 - a) In a nonattainment area, as defined in 10 CSR 10-6.020, paragraph (2)(N)5., the Director shall not issue a permit under this section unless the owner or operator can demonstrate to the satisfaction of the Director that the emissions from the open burning of the specified

material would be less than the emissions from any other waste management or disposal method.

- 5) Reporting and Record Keeping. New Source Performance Standard (NSPS) 40 CFR Part 60 Subpart CCCC establishes certain requirements for air curtain destructors or incinerators that burn wood trade waste. These requirements are established in 40 CFR 60.2245-60.2260. The provisions of 40 CFR Part 60 Subpart CCCC promulgated as of September 22, 2005 shall apply and are hereby incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401. To comply with NSPS 40 CFR 60.2245-60.2260, sources must conduct an annual Method 9 test. A copy of the annual Method 9 test results shall be submitted to the Director.
- 6) Test Methods. The visible emissions from air pollution sources shall be evaluated as specified by 40 CFR Part 60, Appendix A–Test Methods, Method 9–Visual Determination of the Opacity of Emissions from Stationary Sources. The provisions of 40 CFR Part 60, Appendix A, Method 9 promulgated as of December 23, 1971 is incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401.

10 CSR 10-2.070 Restriction of Emission of Odors

This requirement is not federally enforceable.

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour.

Title VI – 40 CFR Part 82 Protection of Stratospheric Ozone

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
 - b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
 - c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
 - d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
- 2) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
 - a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
 - b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
 - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.

- d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
 - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
 - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- 3) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, Production and Consumption Controls.
 - 4) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.

The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, Significant New Alternatives Policy Program. *Federal Only - 40 CFR Part 82*

10 CSR 10-6.280 Compliance Monitoring Usage
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- 1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
 - a) Monitoring methods outlined in 40 CFR Part 64;
 - b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Any other monitoring methods approved by the Director.
- 2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
 - a) Monitoring methods outlined in 40 CFR Part 64;
 - b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Compliance test methods specified in the rule cited as the authority for the emission limitations.

- 3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
 - a) Applicable monitoring or testing methods, cited in:
 - i) 10 CSR 10-6.030, "Sampling Methods for Air Pollution Sources";
 - ii) 10 CSR 10-6.040, "Reference Methods";
 - iii) 10 CSR 10-6.070, "New Source Performance Standards";
 - iv) 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants"; or
 - b) Other testing, monitoring, or information gathering methods, if approved by the Director, that produce information comparable to that produced by any method listed above.

V. General Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

10 CSR 10-6.065, §(5)(C)1 and §(6)(C)1.B Permit Duration

This permit is issued for a term of five years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed.

10 CSR 10-6.065, §(5)(C)1 and §(6)(C)1.C General Record Keeping and Reporting Requirements

- 1) Record Keeping
 - a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
 - b) Copies of all current operating and construction permits issued to this installation shall be kept on-site for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources' personnel upon request.
- 2) Reporting
 - a) All reports shall be submitted to the Air Pollution Control Program's Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
 - b) The permittee shall submit a report of all required monitoring by:
 - i) April 1st for monitoring which covers the January through December time period.
 - ii) Exception. Monitoring requirements which require reporting more frequently than annually shall report no later than 30 days after the end of the calendar quarter in which the measurements were taken.
 - c) Each report shall identify any deviations from emission limitations, monitoring, record keeping, reporting, or any other requirements of the permit.
 - d) Submit supplemental reports as required or as needed. Supplemental reports are required no later than ten days after any exceedance of any applicable rule, regulation or other restriction. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
 - i) Notice of any deviation resulting from an emergency (or upset) condition as defined in paragraph (6)(C)7 of 10 CSR 10-6.065 (Emergency Provisions) shall be submitted to the permitting authority either verbally or in writing within two working days after the date on which the emission limitation is exceeded due to the emergency, if the permittee wishes to assert an affirmative defense. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that indicate an emergency occurred and the permittee can identify the cause(s) of the emergency. The permitted installation must show that it was operated properly at the time and that during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or requirements in the permit. The notice must

- contain a description of the emergency, the steps taken to mitigate emissions, and the corrective actions taken.
- ii) Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.
 - iii) Any other deviations identified in the permit as requiring more frequent reporting than the permittee's annual report shall be reported on the schedule specified in this permit, and no later than ten days after any exceedance of any applicable rule, regulation, or other restriction.
 - e) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.
 - f) The permittee may request confidential treatment of information submitted in any report of deviation.

10 CSR 10-6.065 §(5)(C)1 and §(6)(C)1.D Risk Management Plan Under Section 112(r)

The permittee shall comply with the requirements of 40 CFR Part 68, Accidental Release Prevention Requirements. If the permittee has more than a threshold quantity of a regulated substance in process, as determined by 40 CFR Section 68.115, the permittee shall submit a Risk Management Plan in accordance with 40 CFR Part 68 no later than the latest of the following dates:

- 1) June 21, 1999;
- 2) Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or
- 3) The date on which a regulated substance is first present above a threshold quantity in a process.

10 CSR 10-6.065(5)(C)1.A General Requirements

- 1) The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
- 2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit
- 3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- 4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.
- 5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the Air Pollution Control Program copies of records

required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted under this rule.

- 6) Failure to comply with the limitations and conditions that qualify the installation for an Intermediate permit make the installation subject to the provisions of 10 CSR 10-6.065(6) and enforcement action for operating without a valid part 70 operating permit.

10 CSR 10-6.065(5)(C)1.C Reasonably Anticipated Operating Scenarios
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None

10 CSR 10-6.065, §(5)(B)4; §(5)(C)1, §(6)(C)3.B; and §(6)(C)3.D; and §(5)(C)3 and §(6)(C)3.E.(I) – (III) and (V) – (VI) Compliance Requirements
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- 1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
- 2) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation's right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
 - a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
 - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
- 3) All progress reports required under an applicable schedule of compliance shall be submitted semiannually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
 - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
 - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.
- 4) The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by June 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and exceedances must be included in the compliance certifications. The compliance certification shall include the following:
 - a) The identification of each term or condition of the permit that is the basis of the certification;
 - b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;

- c) Whether compliance was continuous or intermittent;
- d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period; and
- e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

10 CSR 10-6.065, §(5)(C)1 and §(6)(C)7 Emergency Provisions

- 1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7.A shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emissions limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:
 - a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
 - b) That the installation was being operated properly,
 - c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
 - d) That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
- 2) Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

10 CSR 10-6.065(5)(C)5 Off-Permit Changes

- 1) Except as noted below, the permittee may make any change in its permitted installation's operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Off-permit changes shall be subject to the following requirements and restrictions:
 - a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; the permittee may not change a permitted installation without a permit revision if this change is a Title I modification; Please Note: Changes at the installation which affect the emission limitation(s) classifying the installation as an intermediate source (add additional equipment to the record keeping requirements, increase the emissions above major source level) do not qualify for off-permit changes.
 - b) The permittee must provide written notice of the change to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, no later than the next annual emissions report. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change; and
 - c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes.

10 CSR 10-6.020(2)(R)12 Responsible Official

The application utilized in the preparation of this permit was signed by Anthony Barber, Owner. If this person terminates employment, or is reassigned different duties such that a different person becomes the responsible person to represent and bind the installation in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Director of the Air Pollution Control Program of the change. Said notification shall be in writing and shall be submitted within 30 days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the installation in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the installation until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

10 CSR 10-6.065 §(5)(E)4 and §(6)(E)6.A(III)(a)-(c) Reopening-Permit for Cause

This permit may be reopened for cause if:

- 1) The Missouri Department of Natural Resources (MDNR) or EPA determines that the permit contains a material mistake or that inaccurate statements were made which resulted in establishing the emissions limitation standards or other terms of the permit,
- 2) Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if—:
 - a) The permit has a remaining term of less than three years;
 - b) The effective date of the requirement is later than the date on which the permit is due to expire; or
 - c) The additional applicable requirements are implemented in a general permit that is applicable to the installation and the installation receives authorization for coverage under that general permit,
- 3) The Missouri Department of Natural Resources or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

10 CSR 10-6.065 §(5)(E)1.A and §(6)(E)1.C Statement of Basis

This permit is accompanied by a statement setting forth the legal and factual basis for the permit conditions (including references to applicable statutory or regulatory provisions). This Statement of Basis, while referenced by the permit, is not an actual part of the permit.

VI. Attachments

Attachments follow.

Attachment D: Method 22 Observation Log
 10 CSR 10-6.220 Compliance Demonstration

This attachment or an equivalent may be used to help meet the recordkeeping requirements of the Visible Emissions Permit Conditions.

Method 22 (Outdoor) Observation Log		
Emission Unit		
Observer	Date	
Sky Conditions		
Precipitation		
Wind Direction	Wind Speed	
Sketch process unit: Indicate the position relative to the source and sun; mark the potential emission points and/or the observing emission points.		
Observation Clock Time	Observation Period Duration (minute:second)	Accumulative Emission Time (minute:second)
Begin Observation		
End Observation		

Attachment E: Method 9 Visual Determination of Opacity

10 CSR 10-6.220 Compliance Demonstration

This attachment or an equivalent may be used to help meet the recordkeeping requirements of Method 9 Opacity Emissions Observations.

Method 9 Opacity Emissions Observations	
Company	Observer
Location	Observer Certification Date
Date	Emission Unit
Time	Control Device

Hour	Minute	Seconds				Steam Plume (check if applicable)		Comments
		0	15	30	45	Attached	Detached	
	0							
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							

SUMMARY OF AVERAGE OPACITY				
Set Number	Time		Opacity	
	Start	End	Sum	Average

Readings ranged from _____ to _____ percent opacity.

Was the emission unit in compliance at the time of evaluation?

YES NO

 Signature of Observer

Attachment F: Compliance Plan

1. Permit Condition PW001

Construction Permit 122003-011, November 14, 2003

Special Condition 5, Haul Roads-Watering(>50 percent Control), item C.

The installation indicated the lengths of the haul roads at the plant site, and potential emissions from the haul roads were modeled, using the indicated lengths and average truck speeds, per policy. Pit-to-plant haul roads have an average truck speed of 6 mph. Product haul roads have an average truck speed of 6 mph for hauling 500 feet or less, and 10 mph for hauling over 500 feet. All other product haul roads have an average truck speed of 10 mph for hauling 500 feet or less, and 15 mph for hauling over 500 feet.

- a) Product Haul Road, EP-81 (formerly EP-206), which is a standard plant haul road, was claimed to be, and shall not exceed, 2900 feet in length.
- b) Pit-to-Plant Haul Road, EP-03 (formerly EP-88), which is a pit-to-plant haul road, was claimed to be, and shall not exceed, 3000 feet in length.

Problem:

The emission points EP-206 Standard Haul Road and EP-88 Pit-to-Plant Haul Road referenced in the construction permit were not reported in the operating permit application. The operating permit application refers to:

- a) Product Haul Road EP-81 (EIQ 2376 feet)
- b) Pit-to-Plant Haul Road EP-03 (EIQ 4382 feet)

Because the PM₁₀ ambient impact in the construction permit (see PW001) is based on different lengths; the extra length of the Pit-to-Plant Haul road may require a more stringent ambient impact factor.

Remedy:

A construction permit modification request using current lengths will be required by the Department.

2. Permit Condition PW001 and EU0640-02 & EU0680-02 through EU0700-02

Construction Permit 122003-011, November 14, 2003

Special Condition 6 Haul Road and Vehicular Areas of Storage Piles Requirements –Paving, Washing and/or Watering, item A.

The installation shall control dust from the haul road EP-81 (formerly EP-206) at this site by paving the road and vehicular areas of the storage piles (EP-92, EP-184, and EP-198) with asphalt (or with other paving materials if requested by the company and approved by the Air Pollution Control Program). The installation shall pave the affected haul road(s) and vehicular areas of the storage piles within 30 days after the receipt of this permit. This 30-day deadline to pave the haul road(s) may be extended upon approval of the Director.

Problem:

This condition refers to EP-206 (not reported in the operating permit application) which is required to be paved along with the vehicular areas of the storage piles EP-108 (not in the operating permit application or latest EIQ), EP-92, EP-184, and EP-198 within 30 days. EP-206 was described as the Standard Haul Road which is probably referring to the current EP-81 Product Haul Road. The Product Haul Road is paved from the entrance road from Hwy 7, past the scale house, to the junction with the asphalt plant road (approximately 2376 feet). The vehicular areas of the storage piles have not been paved.

Because the PM_{10} ambient impact in the construction permit (see PW001) is based on paved vehicular areas; a more stringent ambient impact factor may be required.

Remedy:

Since the vehicular areas of the referenced storage piles are not paved, a construction permit modification request will be required by the Department.

STATEMENT OF BASIS

Voluntary Limitations

In order to qualify for this Intermediate State Operating Permit, the permittee has accepted voluntary, federally enforceable emission limitations. Per 10 CSR 10-6.065(5)(C)1.A.(VI), if these limitations are exceeded, the installation immediately becomes subject to 10 CSR 10-6.065(6) and enforcement action for operating without a valid part 70 operating permit. It is the permittee's responsibility to monitor emission levels and apply for a part 70 operating permit far enough in advance to avoid this situation. This may mean applying more than eighteen months in advance of the exceedance; since it can take that long or longer to obtain a part 70 operating permit.

Permit Reference Documents

These documents were relied upon in the preparation of the operating permit. Because they are not incorporated by reference, they are not an official part of the operating permit.

- 1) Intermediate Operating Permit Application, received February, 14, 2008;
- 2) 2007 Emissions Inventory Questionnaire, received June 2, 2008; and
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition.
- 4) Construction Permit 122003-011 issued November 14, 2003 (supersedes the permit conditions in the construction permits previously issued)

Applicable Requirements Included in the Operating Permit but Not in the Application or Previous Operating Permits

This is the first Intermediate Operating Permit; the facility had a basic operating permit.

Other Air Regulations Determined Not to Apply to the Operating Permit

The Air Pollution Control Program (APCP) has determined that the following requirements are not applicable to this installation at this time for the reasons stated.

10 CSR 10-6.100, *Alternate Emission Limits*

This rule is not applicable because the installation is in an ozone attainment area.

10 CSR 10-6.400, *Restriction of Emission of Particulate Matter from Industrial Processes*

This rule was listed as applicable to the diesel engines EU-610 (EP-85) and EU-620 (EP-86) in the operating permit application. 10 CSR 10-6.400(2)(A) excludes "...liquids and gases used solely as fuels...", so it is not applicable to the diesel engines.

10 CSR 10-6.220 *Restriction of Emission of Visible Air Contaminants*

Emission Point 04 Receiving Hopper is not subject to an emission unit specific limitations because 10 CSR 10-6.220 has an exception for "Truck dumping of nonmetallic mineral into any screening operation, feed hopper or crusher;"

Construction Permit Revisions

The following revisions were made to construction permits for this installation:

Construction Permit 122003-011, November 14, 2003

Special Condition 2 Ambient Air Monitoring

The May 3, 2006 Settlement Agreement states that condition 2.A of permit 122003-011 has been satisfied.

Special Condition 2 is not included in this operating permit.

Construction Permit 122003-011, November 14, 2003

Special Condition 3 Annual NO_x Limitation

OPERATING PERMIT CONDITION PW006

The construction permit limitation was for 250 tons/year.

The new voluntary limitation PW006 of 100 tons/year was used in lieu of the 250 tons/year.

Construction Permit 122003-011, November 14, 2003

Special Condition 4 Generic Plant Designation

OPERATING PERMIT CONDITION EU0010-001 THROUGH EU0600-001

The construction permit required that information be submitted within 15 days.

The operating permit requires an updated list be kept at the facility.

Construction Permit 122003-011, November 14, 2003

Special Condition 5 Haul Roads-Watering(>50 percent Control), item C.

Permit Condition EU0630-01 through EU0700-01

The emission points EP-206 Standard Haul Road (2900 feet) and EP-88 Pit-to-Plant Haul Road (3000 feet) referenced in the construction permit were not reported in the operating permit application. The operating permit application refers to the EP-03 Pit Haul Road (EIQ 4382 feet) and EP-81 Product Haul Road (EIQ 2376 feet).

The Attachment F: Compliance Plan refers to item C. of construction permit 122003-011.

Construction Permit 122003-011, November 14, 2003

Special Condition 6 Haul Road and Vehicular Areas of Storage Piles Requirements–Paving, Washing and/or Watering, item A.

The Permit Condition EU0640-02 & EU0680-02 through EU0700-02 condition refers to EP-206 (not reported in the operating permit application) which is required to be paved along with the vehicular areas of the storage piles EP-108 (not in the operating permit application or latest EIQ), EP-92, EP-184, and EP-198 within 30 days.

EP-206 was described as the Standard Haul Road which is probably referring to the current EP-81 Product Haul Road.

The Attachment F: Compliance Plan refers to item A. of construction permit 122003-011.

Special Condition 6 Haul Road and Vehicular Areas of Storage Piles Requirements–Paving, Washing and/or Watering, item C.

The watering of the unpaved portion of the product haul road EP-81 (formerly EP-206) is not included because the product haul road is paved.

Construction Permit 122003-011, November 14, 2003

Special Condition 7 Usage of Wet Suppression Control System on Equipment

This condition requires the installation and operation of wet suppression units on all crushing, screening and conveying operations unless moisture content testing is done.

Since wet suppression units were not installed on all equipment, only the moisture testing requirement is referenced in PERMIT CONDITION EU0320-002.

Construction Permit 122003-011, Issued November 14, 2003

Special Condition 9

The installation shall maintain all records required by this permit with the installation for not less than five (5) years and shall immediately make such records available to any Missouri Department of Natural Resources (DNR) personnel upon request.

This condition was not included in the permit Plant Wide Conditions because it is already in the General Permit Conditions.

Construction Permit 122003-011, November 14, 2003

Special Condition 10

The conditions established in this permit shall supersede the permit conditions established in the APCP construction permits that have been issued for this installation (Permit Numbers 05-2002-017, 062000-023, 0897-020, 0592-012, and 0980-005).

This statement was not included in the operating permit because only conditions from 122003-011 were included in this operating permit.

New Source Performance Standards (NSPS) Applicability

40 CFR Part 60, Subpart OOO *Standards of Performance for Non-metallic Mineral Processing Plants*

“Except as provided in paragraphs (a)(2), (b), (c), and (d) of this section, the provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station...” §60.670(a)(1)

This subpart is not applicable to storage piles, haul roads and drilling operations.

“An affected facility under paragraph (a) of this section that commences construction, modification, or reconstruction after August 31, 1983, is subject to the requirements of this part.” §60.670(d)

“When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in §60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of §§60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.” 40 CFR 60.670(d)(1)

“An owner or operator replacing all existing facilities in a production line with new facilities does not qualify for the exemption described in paragraph (d)(1) of this section and must comply with the provisions of §§60.672, 60.674 and 60.675.” 40 CFR 60.670(d)(3)

The facility has reported that EU0010 (EIQ EP-04) Hopper and EU0020 (EIQ EP-05) Screen (Grizzly Feeder) were “like-kind replacements” and not subject to Subpart OOO. These emission points are part of the Old Primary Crushing Plant which was not replaced with all new equipment.

40 CFR Part 60, Subpart Kb-Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984

The tank capacity is 10,000 gallons which falls below the 19,800 gallon applicability.

40 CFR Part 63, Subpart IIII-*Standards of Performance for Stationary Compression Ignition Internal Combustion Engines*

This subpart is only applicable if the two diesel generator engines had been modified or reconstructed after July 11, 2005. The engines were put into service in 2002.

Maximum Available Control Technology (MACT) Applicability

None

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

In the permit application and according to APCP records, there was no indication that any Missouri Air Conservation Law, Asbestos Abatement, 643.225 through 643.250; 10 CSR 10-6.080, Emission Standards for Hazardous Air Pollutants, Subpart M, National Standards for Asbestos; and 10 CSR 10-6.250, Asbestos Abatement Projects - Certification, Accreditation, and Business Exemption Requirements apply to this installation. The installation is subject to these regulations if they undertake any projects that deal with or involve any asbestos containing materials. None of the installation's operating projects underway at the time of this review deal with or involve asbestos containing material. Therefore, the above regulations were not cited in the operating permit. If the installation should undertake any construction or demolition projects in the future that deal with or involve any asbestos containing materials, the installation must follow all of the applicable requirements of the above rules related to that specific project.

Other Regulatory Determinations

Emission Point 06, old primary crusher, is not included in this permit because only the hopper/feeder is used; all the rock bypasses the crusher.

The intermediate installation designation requires that all air pollutants be limited below 100 tons per year. This installation has the potential to emit over 100 tons per year of PM₁₀ (rock crushing operations) and NO_x (diesel generator engines). Annual fuel usage is limited to 456,204 gallons so that the NO_x limit of 100 tons/year will be met (see attachment B). The ambient impact factor for PM₁₀ limits the daily production to 34,090 tons/day (see attachment A).

The PM₁₀ for the entire installation will be limited below 100 tons/year because of the 34,090 tons/day (12,442,850 tons/year) ambient limit.

Process	Tons/year	PM10 lbs/ton Emission factor	Tons PM10/yr	Emission Factor Source	Controlled Factor
Primary Crusher SCC 3-05-020-01	12,442,850	0.0024	14.9	AP42 Tbl 11.19.2-2	No**
Secondary Crushers SCC 3-05-020-02	12,442,850	0.00054	3.36	AP42 Tbl 11.19.2-2	Yes**
Conveyors SCC 3-05-020-06	12,442,850	0.000046	0.286	AP42 Tbl 11.19.2-2	Yes**
Screens SCC 3-05-020-03	12,442,850	0.00074	4.60	AP42 Tbl 11.19.2-2	Yes**
Hopper SCC 3-05-020-31	12,442,850	1.60 x 10 ⁻⁵	0.100	AP42 Tbl 11.19.2-2	n/a
Storage Bins SCC 3-05-020-06	12,442,850	1.10x10 ⁻³	6.84	AP42 Tbl 11.19.2-2	n/a
Generators* SCC 2-02-004-01			1.79		
		TOTAL	31.9		

**Permit to Construct 122003-011 condition 8 allows moisture content >1.5 percent in lieu of wet suppression control system on crushing, screening and conveying operations. AP42 Table 11.19.2-2 states "...Due to carry over of the small amount of moisture required, it has been shown that each source, with the exception of crushers, does not need to employ direct water sprays...". Therefore, the uncontrolled factor was used for the primary crusher which does not have a direct water spray system.

*

$$\frac{100 \frac{\text{tons NO}_x}{\text{Year}} \times 2000 \frac{\text{lbs}}{\text{ton}}}{3.2 \frac{\text{lbs NO}_x}{\text{MMBTU}} \times 0.137 \frac{\text{MMBTU}}{\text{gal}}} = 456,204 \frac{\text{gal}}{\text{year}} \times 7.85 \frac{\text{lb PM}_{10}}{\text{Mgal}_{\text{diesel}}} \times \frac{\text{Mgal}}{1000 \text{gal}} \div 2000 \frac{\text{lbs}}{\text{ton}} = 1.79 \frac{\text{tons PM}_{10}}{\text{year}}$$

Attachment-B WebFire

Other Regulations Not Cited in the Operating Permit or the Above Statement of Basis

Any regulation which is not specifically listed in either the Operating Permit or in the above Statement of Basis does not appear, based on this review, to be an applicable requirement for this installation for one or more of the following reasons.

- 1) The specific pollutant regulated by that rule is not emitted by the installation.
- 2) The installation is not in the source category regulated by that rule.
- 3) The installation is not in the county or specific area that is regulated under the authority of that rule.
- 4) The installation does not contain the type of emission unit which is regulated by that rule.
- 5) The rule is only for administrative purposes.

Should a later determination conclude that the installation is subject to one or more of the regulations cited in this Statement of Basis or other regulations which were not cited, the installation shall determine and demonstrate, to the Air Pollution Control Program's satisfaction, the installation's compliance with that regulation(s). If the installation is not in compliance with a regulation which was not previously cited, the installation shall submit to the Air Pollution Control Program a schedule for achieving compliance for that regulation(s).

Prepared by:

Paul Kochan
Environmental Engineer