



## 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 herein.

Intermediate Operating Permit Number: ~~OP2012-007~~  
Expiration Date: ~~AUG 20 2017~~  
Installation ID: 187-0001  
Project Number: 2011-08-038

**Installation Name and Address**

Lead Belt Materials Co., Inc.  
600 Mill Street  
Park Hills, MO 63601  
St. Francois County

**Parent Company's Name and Address**

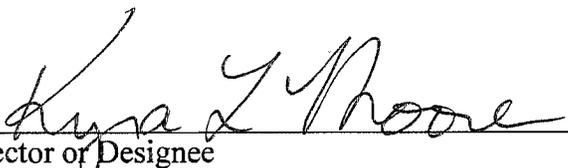
Lead Belt Materials Co., Inc.  
P.O. Box 607  
Park Hills, MO 63601

**Installation Description:**

The installation consists of four plants at one site; two rock crushing plants, referred to as Rock Crushing Plant #1 and Rock Crushing Plant #2, an asphalt plant, and a pugmill, all of which are owned by the permittee. The installation has accepted a voluntary limitation for particulate matter of a diameter of less than ten microns (PM<sub>10</sub>) from the entire installation (all four plants) in order to qualify for this Intermediate Operating Permit.

AUG 21 2012

Effective Date

  
Director or Designee  
Department of Natural Resources

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## I. Installation Description and Equipment Listing

### INSTALLATION DESCRIPTION

The installation consists of four plants at one site; two rock crushing plants, referred to as Rock Crushing Plant #1 and Rock Crushing Plant #2, an asphalt plant, and a pugmill, all of which are owned by the permittee. The installation has accepted a voluntary limitation for particulate matter of a diameter of less than ten microns (PM<sub>10</sub>) from the entire installation (all four plants) in order to qualify for this Intermediate Operating Permit.

Reported Air Pollutant Emissions, tons per year					
Pollutants	2010	2009	2008	2007	2006
Particulate Matter ≤ Ten Microns (PM <sub>10</sub> )	7.84	17.77	17.79	16.50	16.53
Particulate Matter ≤ 2.5 Microns (PM <sub>2.5</sub> )	0.47	1.79	1.56	1.46	0.39
Sulfur Oxides (SO <sub>x</sub> )	0.36	0.86	0.64	0.45	0.39
Nitrogen Oxides (NO <sub>x</sub> )	6.05	13.5	10.41	7.31	6.55
Volatile Organic Compounds(VOC)	0.70	1.28	1.84	0.79	0.79
Carbon Monoxide (CO)	14.68	14.6	6.36	13.42	17.91
Lead (Pb)	-	-	-	-	-
Hazardous Air Pollutants (HAPs)	-	-	0.003	-	-
Ammonia (NH <sub>3</sub> )	-	-	-	-	-

### 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 #	Description of Emission Unit	
<b>Drilling</b>		
EU0010	Drilling for Rock Crushing Plant Number 1	EP-1A
EU0020	Drilling for Rock Crushing Plant Number 2	EP-1E
<b>Rock Crushing Plant Number 1</b>		
EU0030	Bin on Primary Crusher With Underconveyor	EP-18A
EU0040	Scalping Screen	EP-6A
EU0050	Secondary Crusher	EP-7A
EU0060	Conveyor From Secondary Crusher to Finish Screen	EP-8A

EU0070	Finish Screen	EP-9A
EU0080	Conveyor From Finish Screen to Secondary Crusher	EP-10A
EU0090	Conveyors From Finish Screen to Haul Trucks	EP-19A, EP-14A, EP-15A
EU0100	Grizzly Feeder	EP-3A
EU0110	Primary Crusher	EP-4A
EU0120	Conveyor From Primary Crusher to Scalping Screen	EP-5A
EU0121	Conveyors	EP-11A, EP-12A, EP-23A, EP-25A, EP-26A, EP-27A, EP-28A
EU0122	Conveyors	EP-20A, EP-29A
EU0123	Grizzly Feeder	EP-21A
EU0124	Secondary Impact Crusher	EP-22A
EU0125	Impact Crusher Screen	EP-24A
<b><i>Rock Crushing Plant Number 2</i></b>		
EU0130	Crusher	EP-2E
EU0140	Conveyor From Crusher to Screen	EP-3E
EU0150	Conveyor From Screen to Crusher	EP-4E
EU0160	Screen	EP-5E
EU0170	Conveyors From Screen to Haul Trucks	EP-6E, EP-7E, EP-8E
<b><i>Pugmill</i></b>		
EU0180	Pugmill Cold Bin	EP-1B
<b><i>Diesel Engine</i></b>		
EU0190	Diesel Engine on Rock Crushing Plant Number 2	EP-12E
EU0191	Diesel Engine on Rock Crushing Plant Number 1	EP-11E
EU0192	Diesel Engine on Pugmill	EP-30A
<b><i>Asphalt Plant</i></b>		
EU0200	Asphalt Plant Cold Bins	EP-1
EU0210	Drum Dryer, 1969	EP-2
EU0220	Elevators, Screens, Bins and Mixer	EP-4
EU0230	Hot Asphalt Silo Loading	EP-7
EU0240	Hot Asphalt Loadout	EP-8
<b><i>Stockpiles</i></b>		
EU0250	Rock Crushing Plant Number 1 Stockpile	EP-13A
EU0260	Rock Crushing Plant Number 2 Stockpile	EP-9E
EU0270	Pugmill Stockpile	EP-2B
<b><i>Shorter Unpaved Haul Roads</i></b>		
EU0280	Asphalt Plant Unpaved Haul Road, 0.2 mile	EP-6
EU0290	Pit to Rock Crushing Plant Number 1 Unpaved Haul Road, 0.1 mile	EP-16A
EU0300	Rock Crushing Plant Number 1 to Stockpile Unpaved Haul Road, 0.1 mile	EP-16A1
EU0310	Pit to Rock Crushing Plant Number 2 Unpaved Haul Road, 0.1 mile	EP-10E
EU0320	Rock Crushing Plant Number 2 to Stockpile	EP-10E1

	Unpaved Haul Road, 0.1 mile	
	<b><i>Longer Unpaved Haul Roads</i></b>	
EU0330	Rock Crushing Plant Number 1 Sales Unpaved Haul Road, 0.5 mile	EP-16A2
EU0340	Rock Crushing Plant Number 2 Sales Unpaved Haul Road, 0.2 mile	EP-10E2
	<b><i>Paved Haul Roads</i></b>	
EU0350	Asphalt Plant Paved Haul Road, 0.6 mile	EP-6A1
EU0360	Rock Crushing Plant Number 1 Sales Paved Haul Road, 0.5 mile	EP-16A3
EU0370	Rock Crushing Plant Number 2 Sales Paved Haul Road, 0.5 mile	EP-10E3
EU0380	Pugmill Paved Haul Road, 0.3 mile	EP-3B

**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.

Description of Emission Source

Unloading rock to Grizzly Feeder at Rock Crushing Plant Number 1	EP-17A
Asphalt heater, 1.24 MMBtu/hr, natural gas or LPG fired	EP-3
Storage tank for asphalt, horizontal fixed roof, 25,000-gallon capacity	EP-5
Storage tank for asphalt, horizontal fixed roof, 11,000-gallon capacity	EP-5
Storage tank for asphalt, vertical fixed roof, 11,000-gallon capacity	EP-5
Storage tank for #2 diesel fuel oil, vertical fixed roof, 12,785-gallon capacity	EP-5
Storage tank for #2 diesel fuel oil, horizontal fixed roof, 940-gallon capacity	EP-5
Two storage tanks for #2 diesel fuel oil, horizontal fixed roof, 120-gallon capacity each	EP-5
Storage tank for gasoline, horizontal fixed roof, 1,020-gallon capacity	EP-5G

**DOCUMENTS INCORPORATED BY REFERENCE**

These documents have been incorporated by reference into this permit.

1. Construction Permit 082005-023
2. Construction Permit 042009-008

## 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 No. 042009-008 Issued April 15, 2009

#### Emission Limitation:

- a) The permittee shall ensure, while operating at this site, that the ambient impact of PM<sub>10</sub> at or beyond the nearest property boundary does not exceed 150µg/m<sup>3</sup> in any 24-hour period, in accordance with the Federal NAAQS requirements (40 CFR 50.6). [Special Condition 2.A.]
- b) The total daily ambient impact of PM<sub>10</sub> at this site shall include the combined impact of the installation and any ambient background concentration from plants or equipment located on the same site as the installation. [Special Condition 2.B.]

#### Operational Limitation:

- a) This installation is permitted to operate under the following four conditions: [Special Condition 2.C.]
  - 1) **Solitary Operation:**
    - i) Solitary Operation is defined as operation when no other installations are present on the property. During Solitary Operation, the plant must record its daily production to ensure that the National Ambient Air Quality Standard (NAAQS) is not exceeded.
  - 2) **Concurrent Same-Owner Operation:**
    - i) Concurrent Same-Owner Operation is defined as operation when other plants owned by Lead Belt Material Co., Inc. are located on the property. During Concurrent Same-Owner Operation, Lead Belt Material Co., Inc. may balance and record the daily production from all plants such that the NAAQS is not exceeded.
  - 3) **Concurrent Separate-Owner Operation:**
    - i) Concurrent Separate-Owner Operation is defined as operation when other plants not owned by the parent company are located on the property. During Concurrent Separate-Owner Operation, the plant must reduce its ambient impact to address the impact for the non-owned plants.
  - 4) **Concurrent Same-and-Separate-Owner Operation:**
    - i) Concurrent Same-and-Separate-Owner Operation is defined as operation when plants owned by Lead Belt Material Co., Inc. and plants not owned by Lead Belt Material Co., Inc. are located on the property. During Concurrent Same-and-Separate-Owner Operation, Lead Belt Material Co., Inc. may balance the daily production from all owned plants with a reduced impact to amount for the impact from the non-owned plant to ensure that the NAAQS is not exceeded.
- b) The permittee shall only use uncontaminated nonmetallic minerals as the source material. [Special Condition 10.]
- c) The distance to the nearest property boundary must be at least: [Special Condition 6.]

Plant Name	Maximum Hourly Design Rate (tons/h)	Minimum Distance (ft)
Rock Crushing Plant #1	350	400
Rock Crushing Plant #2	350	500
Asphalt Plant	170	640
Pugmill	450	500

**Monitoring/Recordkeeping:**

- a) To demonstrate compliance, the permittee shall maintain a daily record of material processed using Attachments A and B or equivalent forms generated by the permittee. [Special Condition 2.D.]
- b) The permittee shall keep records indicating the source material used at this site is only nonmetallic minerals. [Special Condition 10.]
- c) The permittee shall retain all records for a minimum of five (5) years. [Special Condition 7.]
- d) The permittee shall immediately make all records available for inspection to any Department of Natural Resources personnel upon request.

**Reporting:**

- a) 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 exceedance of the emission limitations of this permit condition or any deviation from the operational limitations of this permit condition. [Special Condition 8.]
- b) The permittee shall report any deviations from the monitoring/recordkeeping and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION PW002**  
 10 CSR 10-6.060 Construction Permits Required  
 Construction Permit No. 042009-008 Issued April 15, 2009

**Emission Limitation:**

The permittee shall emit into the atmosphere less than 100 tons of Carbon Monoxide (CO) from the four plants at this site in any consecutive 12-month period. [Special Condition #4.]

**Monitoring/Recordkeeping:**

- a) The permittee shall maintain an accurate record of average monthly throughput for emission units:
  - 1) EU0210 Drum Dryer EP#2
  - 2) Asphalt Heater EP#3
  - 3) EU0190 Diesel Engine on Rock Crushing Plant Number 2 Crusher EP#11E
  - 4) EU0191 Diesel Engine on Rock Crushing Plant Number 2 EP#12E
  - 5) EU0192 Diesel Engine on Rock Crushing Plant Number 1 Impact Crush EP#30A
- b) The monthly emissions of carbon monoxide for each emission unit shall be calculated as demonstrated in Attachment C or an equivalent form generated by the permittee.
- c) The permittee shall calculate their annual emission of carbon monoxide by summing the monthly emissions of each emission unit for the last twelve months. The annual emission will be calculated each month using the most recent twelve months' worth of monthly emission totals.
- d) All records shall be kept for no less than five years and be made available immediately to any Missouri Department of Natural Resources' personnel upon request.

**Reporting:**

- a) If at any time the yearly emission limit of 100 tons should be exceeded or a malfunction occur which could possibly cause exceedance 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 (10) days after the exceedance.
- b) The permittee shall report any deviations from the monitoring/recordkeeping and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION PW003**

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

**Emission Limitation:**

The permittee shall emit into the atmosphere less than 100 tons of particulate matter of a diameter of less than ten microns (PM<sub>10</sub>) from the entire installation (all four plants) at this site in any consecutive 12-month period.

**Monitoring/Recordkeeping:**

- a) The permittee shall maintain an accurate record of average monthly throughput for each plant.
- b) The monthly emissions of PM<sub>10</sub> from each plant shall be calculated as demonstrated in Attachment D or an equivalent form generated by the permittee.
- c) The permittee shall calculate their annual emission of PM<sub>10</sub> by summing the monthly emissions of each plant for the last twelve months. The annual emission will be calculated each month using the most recent twelve months' worth of monthly emission totals.
- d) All records shall be kept for no less than five years and be made available immediately to any Missouri Department of Natural Resources' personnel upon request.

**Reporting:**

- a) If at any time the yearly installation emission limit of 100 tons should be exceeded or a malfunction occur which could possibly cause exceedance 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 (10) days after the exceedance.
- b) The permittee shall report any deviations from the monitoring/recordkeeping and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION PW004**

10 CSR 10-6.060 Construction Permits Required  
Construction Permit No. 082005-023 Issued August 29, 2005

**Operational Limitation:**

The permittee shall only use uncontaminated nonmetallic minerals as the source material. The operator(s) shall keep records indicating the source material used at this site was only nonmetallic minerals. (Special Condition # 14)

**Monitoring/Recordkeeping:**

- a) The operator(s) shall keep records indicating the source material used at this site was only nonmetallic minerals.
- b) All records shall be kept for no less than five years and be made available immediately to any Missouri Department of Natural Resources' personnel upon request.

**Reporting:**

The permittee shall report any deviations from the monitoring/recordkeeping and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

### 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.

<b>EU0010 through EU0090 – Drilling and the Old Part of Rock Crushing Plant Number 1</b>			
<i>Drilling</i>			
<b>Emission Unit</b>	<b>Description/Mfg. year</b>	<b>2010 EIQ Reference #</b>	
EU0010	Drilling for Rock Crushing Plant Number 1/pre-1971	EP-1A	
EU0020	Drilling for Rock Crushing Plant Number 2//pre-1971	EP-1E	
<i>Old Part of Rock Crushing Plant Number 1</i>			
<b>Emission Unit</b>	<b>Description/Mfg. year</b>	<b>Manufacturer /Model #</b>	<b>2010 EIQ Reference #</b>
EU0030	Bin on Primary Crusher With Underconveyor/pre-1977	Homemade	EP-18A
EU0040	Scalping Screen/1980	Peerless/3050DR	EP-6A
EU0050	Secondary Crusher/1978	Rexnord	EP-7A
EU0060	Conveyor - Secondary Crusher to Finish Screen/ pre-1977	-	EP-8A
EU0070	Finish Screen/1948	Cedarapids	EP-9A
EU0080	Conveyor - Finish Screen to Secondary Crusher/pre-1977	-	EP-10A
EU0090	Conveyors - Finish Screen to Haul Trucks/pre-1977	-	EP-19A, EP-14A, EP-15A

<b>PERMIT CONDITION (EU0010 through EU0090)-001</b> 10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants
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**Emission Limitation:**

- a) 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 40 percent. Drilling for Rock Crushing Plant Number 1 (EU0010), Drilling for Rock Crushing Plant Number 2 (EU0020), and the Finish Screen (EU0070) are existing sources.

- b) 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. The Bin on Primary Crusher With Underconveyor (EU0030), Scalping Screen (EU0040), Secondary Crusher (EU0050), Conveyor - Secondary Crusher to Finish Screen (EU0060), Conveyor - Finish Screen to Secondary Crusher (EU0080), and Conveyor - Finish Screen to Haul Trucks (EU0090) are new sources.
- c) Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any 60 minutes air contaminants with an opacity up to 60 percent.

**Monitoring:**

- a) The permittee shall conduct opacity readings on these emission units using the procedures contained in U.S. EPA Test Method 22. Readings are only required when the emission unit 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.
- b) The following monitoring schedule must be maintained:
  - 1) Weekly observations shall be conducted for a minimum of eight (8) consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then
  - 2) Observations must be made once every two weeks for a period of eight (8) weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then
  - 3) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
    - (A) If the source reverts to daily monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

**Recordkeeping:**

- a) The permittee shall maintain records, using Attachment G and H or equivalent forms generated by the permit, of all observation results, 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.
- b) The permittee shall maintain records of any equipment malfunctions.
- c) The permittee shall maintain records of any U.S. EPA Method 9 opacity test performed in accordance with this permit condition.
- d) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
- e) All records must be maintained for five (5) years.

**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 fifteen (15) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.

<b>EU0100 through EU0180 – New Part of Rock Crushing Plant Number 1, Rock Crushing Plant Number 2, and Pugmill</b>			
<i>New Part of Rock Crushing Plant Number 1</i>			
<b>Emission Unit</b>	<b>Description/ Mfg. year</b>	<b>Manufacturer /Model #</b>	<b>2010 EIQ Reference #</b>
EU0100	Grizzly Feeder/2000	Cedarapids/4220-15 S/N:49517	EP-3A
EU0110	Primary Crusher/2002	Cedarapids/3042 S/N: 49131	EP-4A
EU0120	Conveyor – Primary Crusher to Scalping Screen/1987	Cedarapids	EP-5A
EU0121	Conveyors/EP 11A & 12A, 2002, all others 2008	Eagle	EP-11A, EP-12A, EP-23A, EP-25A, EP-26A, EP-27A, EP-28A
EU0122	Conveyors/1999	Eagle EP 20A: S/N: 3102 EP 29A: S/N: 3098	EP-20A, EP-29A
EU0123	Grizzly Feeder/2009	-	EP-21A
EU0124	Secondary Impact Crusher/2008	-	EP-22A
EU0125	Impact Crusher Screen/2009	-	EP-24A
<i>Rock Crushing Plant Number 2</i>			
<b>Emission Unit</b>	<b>Description</b>	<b>Manufacturer /Model #</b>	<b>2010 EIQ Reference #</b>
EU0130	Crusher/1999	Eagle /Ultramax 1400-45	EP-2E
EU0140	Conveyor – Crusher to Screen/1999	Superior	EP-3E
EU0150	Conveyor – Screen to Crusher/1999	Eagle	EP-4E
EU0160	Screen/1999	Cedarapids/862038B	EP-5E
EU0170	Conveyors – Screen to Haul Road/1999	Eagle	EP-6E, EP-7E, EP-8E
<i>Pugmill</i>			
<b>Emission Unit</b>	<b>Description</b>	<b>Manufacturer /Model #</b>	<b>2010 EIQ Reference #</b>
EU0180	Pugmill Cold Bin/1990	Peerless/21191	EP-1B

**PERMIT CONDITION (EU0100 through EU0180)-001**

10 CSR 10-6.070 New Source Performance Regulations and  
40 CFR Part 60, Subpart A General Provisions and Subpart OOO Standard for Performance for  
Nonmetallic Mineral Processing Plants

**Emission Limitation:**

- a) Affected facilities must meet the stack emission limits and compliance requirements in Table 2 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 §60.8. The requirements in Table 2 of this subpart apply for affected facilities with capture systems used to capture and transport particulate matter to a control device. Table 2 is included as Attachment E. (§60.672(a))
- b) 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 for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems. Table 2 is included as Attachment F. (§60.672(b))
- c) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section. (§60.672(d))
- d) If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in §60.672(a) and (b), or the building enclosing the affected facility or facilities must comply with the following emission limits: (§60.672(e))
  - 1) Fugitive emissions from the building openings (except for vents as defined in §60.671) must not exceed seven percent opacity; and (§60.672(e)(1))
  - 2) Vents (as defined in §60.671) in the building must meet the applicable stack emission limits and compliance requirements in Table 2 of this subpart. (§60.672(e)(2))

**Monitoring:**

- a) The owner or operator of any affected facility subject to the provisions of this subpart which uses a wet scrubber to control emissions shall install, calibrate, maintain and operate the following monitoring devices: (§60.674(a))
  - 1) A device for the continuous measurement of the pressure loss of the gas stream through the scrubber. The monitoring device must be certified by the manufacturer to be accurate within  $\pm 250$  pascals  $\pm 1$  inch water gauge pressure and must be calibrated on an annual basis in accordance with manufacturer's instructions. (§60.674(a)(1))
  - 2) A device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber. The monitoring device must be certified by the manufacturer to be accurate within  $\pm 5$  percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions. (§60.674(a)(2))
- b) The owner or operator of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses wet suppression to control emissions from the affected facility must perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The owner or operator must initiate corrective action within 24 hours and complete corrective action as expediently as practical if the owner or operator finds that water is not flowing properly during an inspection of the water spray

nozzles. The owner or operator must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in the logbook required under §60.676(b). (§60.674(b))

- 1) If an affected facility relies on water carryover from upstream water sprays to control fugitive emissions, then that affected facility is exempt from the five-year repeat testing requirement specified in Table 3 of this subpart provided that the affected facility meets the criteria in §60.674(b)(1)(i) and (ii): (§60.674(b)(1))
  - (i) The owner or operator of the affected facility conducts periodic inspections of the upstream water spray(s) that are responsible for controlling fugitive emissions from the affected facility. These inspections are conducted according to §60.674(b) and §60.676(b); and (§60.674(b)(1)(i))
  - (ii) The owner or operator of the affected facility designates which upstream water spray(s) will be periodically inspected at the time of the initial performance test required under §60.11 of this part and §60.675 of this subpart. (§60.674(b)(1)(ii))
- 2) If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry required under §60.676(b) must specify the control mechanism being used instead of the water sprays. (§60.674(b)(2))
- c) Except as specified in §60.674(d) or (e), the owner or operator of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses a baghouse to control emissions must conduct quarterly 30-minute visible emissions inspections using EPA Method 22 (40 CFR Part 60, Appendix A-7). The Method 22 (40 CFR Part 60, Appendix A-7) test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner or operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation. The owner or operator must record each Method 22 (40 CFR Part 60, Appendix A-7) test, including the date and any corrective actions taken, in the logbook required under §60.676(b). The owner or operator of the affected facility may establish a different baghouse-specific success level for the visible emissions test (other than no visible emissions) by conducting a PM performance test according to §60.675(b) simultaneously with a Method 22 (40 CFR Part 60, Appendix A-7) to determine what constitutes normal visible emissions from that affected facility's baghouse when it is in compliance with the applicable PM concentration limit in Table 2 of this subpart. The revised visible emissions success level must be incorporated into the permit for the affected facility. (§60.674(c))
- d) As an alternative to the periodic Method 22 (40 CFR Part 60, Appendix A-7) visible emissions inspections specified in Paragraph (c) of this section, the owner or operator of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses a baghouse to control emissions may use a bag leak detection system. The owner or operator must install, operate, and maintain the bag leak detection system according to Paragraphs (d)(1) through (3) of this section. (§60.674(d))
  - (1) Each bag leak detection system must meet the specifications and requirements in §60.674(d)(1)(i) through (viii). (§60.674(d)(1))
    - (i) The bag leak detection system must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of one milligram per dry standard cubic meter (0.00044 grains per actual cubic foot) or less. (§60.674(d)(1)(i))

- (ii) The bag leak detection system sensor must provide output of relative PM loadings. The owner or operator shall continuously record the output from the bag leak detection system using electronic or other means ( e.g. , using a strip chart recorder or a data logger). (§60.674(d)(1)(ii))
  - (iii) The bag leak detection system must be equipped with an alarm system that will sound when the system detects an increase in relative particulate loading over the alarm set point established according to §60.674(d)(1)(iv), and the alarm must be located such that it can be heard by the appropriate plant personnel. (§60.674(d)(1)(iii))
  - (iv) In the initial adjustment of the bag leak detection system, the owner or operator must establish, at a minimum, the baseline output by adjusting the sensitivity (range) and the averaging period of the device, the alarm set points, and the alarm delay time. (§60.674(d)(1)(iv))
  - (v) Following initial adjustment, the owner or operator shall not adjust the averaging period, alarm set point, or alarm delay time without approval from the Administrator or delegated authority except as provided in §60.674(d)(1)(vi). (§60.674(d)(1)(v))
  - (vi) Once per quarter, the owner or operator may adjust the sensitivity of the bag leak detection system to account for seasonal effects, including temperature and humidity, according to the procedures identified in the site-specific monitoring plan required by §60.674(d)(2). (§60.674(d)(1)(vi))
  - (vii) The owner or operator must install the bag leak detection sensor downstream of the fabric filter. (§60.674(d)(1)(vii))
  - (viii) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors. (§60.674(d)(1)(viii))
- 2) The owner or operator of the affected facility must develop and submit to the Administrator or delegated authority for approval of a site-specific monitoring plan for each bag leak detection system. The owner or operator must operate and maintain the bag leak detection system according to the site-specific monitoring plan at all times. Each monitoring plan must describe the items in §60.674(d)(2)(i) through (vi). (§60.674(d)(2))
- (i) Installation of the bag leak detection system; (§60.674(d)(2)(i))
  - (ii) Initial and periodic adjustment of the bag leak detection system, including how the alarm set-point will be established; (§60.674(d)(2)(ii))
  - (iii) Operation of the bag leak detection system, including quality assurance procedures; (§60.674(d)(2)(iii))
  - (iv) How the bag leak detection system will be maintained, including a routine maintenance schedule and spare parts inventory list; (§60.674(d)(2)(iv))
  - (v) How the bag leak detection system output will be recorded and stored; and (§60.674(d)(2)(v))
  - (vi) Corrective action procedures as specified in §60.674(d)(3). In approving the site-specific monitoring plan, the Administrator or delegated authority may allow owners and operators more than three hours to alleviate a specific condition that causes an alarm if the owner or operator identifies in the monitoring plan this specific condition as one that could lead to an alarm, adequately explains why it is not feasible to alleviate this condition within three hours of the time the alarm occurs, and demonstrates that the requested time will ensure alleviation of this condition as expeditiously as practicable. (§60.674(d)(2)(vi))
- 3) For each bag leak detection system, the owner or operator must initiate procedures to determine the cause of every alarm within one hour of the alarm. Except as provided in §60.674(d)(2)(vi), the owner or operator must alleviate the cause of the alarm within three hours of the alarm by

taking whatever corrective action(s) are necessary. Corrective actions may include, but are not limited to the following: (§60.674(d)(3))

- (i) Inspecting the fabric filter for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in PM emissions; (§60.674(d)(3)(i))
  - (ii) Sealing off defective bags or filter media; (§60.674(d)(3)(ii))
  - (iii) Replacing defective bags or filter media or otherwise repairing the control device; (§60.674(d)(3)(iii))
  - (iv) Sealing off a defective fabric filter compartment; (§60.674(d)(3)(iv))
  - (v) Cleaning the bag leak detection system probe or otherwise repairing the bag leak detection system; or (§60.674(d)(3)(v))
  - (vi) Shutting down the process producing the PM emissions. (§60.674(d)(3)(vi))
- e) As an alternative to the periodic Method 22 (40 CFR Part 60, Appendix A–7) visible emissions inspections specified in Paragraph (c) of this section, the owner or operator of any affected facility that is subject to the requirements for processed stone handling operations in the Lime Manufacturing NESHAP (40 CFR Part 63, Subpart AAAAA) may follow the continuous compliance requirements in row 1 items (i) through (iii) of Table 6 to Subpart AAAAA of 40 CFR Part 63. (§60.674(e))

**Test Methods/Procedures:**

- a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in Appendices A–1 through A–7 of this part or other methods and procedures as specified in this section, except as provided in §60.8(b). Acceptable alternative methods and procedures are given in §60.675(e). (§60.675(a))
- b) The owner or operator shall determine compliance with the PM standards in §60.672(a) as follows: (§60.675(b))
  - 1) Except as specified in §60.675(e)(3) and (4), Method 5 of Appendix A–3 of this part or Method 17 of Appendix A–6 of this part shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5 (40 CFR Part 60, Appendix A–3), if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F), to prevent water condensation on the filter. (§60.675(b)(1))
  - 2) Method 9 of Appendix A–4 of this part and the procedures in §60.11 shall be used to determine opacity. (§60.675(b)(2))
- c) 1) In determining compliance with the particulate matter standards in §60.672(b) or §60.672(e)(1), 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))
  - (i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). (§60.675(c)(1)(i))
  - (ii) 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. (§60.675(c)(1)(ii))
  - (iii) 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. (§60.675(c)(1)(iii))

- 2)(i) In determining compliance with the opacity of stack emissions from any baghouse that controls emissions only from an individual enclosed storage bin under §60.672(f) of this subpart, using Method 9 (40 CFR Part 60, Appendix A-4), the duration of the Method 9 (40 CFR Part 60, Appendix A-4) observations shall be 1 hour (ten 6-minute averages). (§60.675(c)(2)(i))
- (ii) The duration of the Method 9 (40 CFR Part 60, Appendix A-4) observations may be reduced to the duration the affected facility operates (but not less than 30 minutes) for baghouses that control storage bins or enclosed truck or railcar loading stations that operate for less than 1 hour at a time. (§60.675(c)(2)(ii))
- 3) When determining compliance with the fugitive emissions standard for any affected facility described under §60.672(b) or §60.672(e)(1) 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. (§60.675(c)(3))
- d) To demonstrate compliance with the fugitive emission limits for buildings specified in §60.672(e)(1), the owner or operator must complete the testing specified in §60.675(d)(1) and (2). Performance tests must be conducted while all affected facilities inside the building are operating. (§60.675(d))
  - 1) If the building encloses any affected facility that commences construction, modification, or reconstruction on or after April 22, 2008, the owner or operator of the affected facility must conduct an initial Method 9 (40 CFR Part 60, Appendix A-4) performance test according to this section and §60.11. (§60.675(d)(1))
  - 2) If the building encloses only affected facilities that commenced construction, modification, or reconstruction before April 22, 2008, and the owner or operator has previously conducted an initial Method 22 (40 CFR Part 60, Appendix A-7) performance test showing zero visible emissions, then the owner or operator has demonstrated compliance with the opacity limit in §60.672(e)(1). If the owner or operator has not conducted an initial performance test for the building before April 22, 2008, then the owner or operator must conduct an initial Method 9 (40 CFR Part 60, Appendix A-4) performance test according to this section and §60.11 to show compliance with the opacity limit in §60.672(e)(1). (§60.675(d)(2))
- e) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section: (§60.675(e))
  - 1) For the method and procedure of §60.675(c), if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used: (§60.675(e)(1))
    - (i) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream. (§60.675(e)(1)(i))
    - (ii) Separate the emissions so that the opacity of emissions from each affected facility can be read. (§60.675(e)(1)(ii))
  - 2) A single visible emission observer may conduct visible emission observations for up to three fugitive, stack, or vent emission points within a 15-second interval if the following conditions are met: (§60.675(e)(2))
    - (i) No more than three emission points may be read concurrently. (§60.675(e)(2)(i))
    - (ii) All three emission points must be within a 70 degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points. (§60.675(e)(2)(ii))
    - (iii) If an opacity reading for any one of the three emission points equals or exceeds the applicable standard, then the observer must stop taking readings for the other two points and continue reading just that single point. (§60.675(e)(2)(iii))

- 3) Method 5I of Appendix A–3 of this part may be used to determine the PM concentration as an alternative to the methods specified in §60.675(b)(1). Method 5I (40 CFR Part 60, Appendix A–3) may be useful for affected facilities that operate for less than 1 hour at a time such as (but not limited to) storage bins or enclosed truck or railcar loading stations. (§60.675(e)(3))
- 4) In some cases, velocities of exhaust gases from building vents may be too low to measure accurately with the type S pitot tube specified in EPA Method 2 of Appendix A–1 of this part [ i.e., velocity head <1.3 mm H<sub>2</sub>O (0.05 in. H<sub>2</sub>O)] and referred to in EPA Method 5 of Appendix A–3 of this part. For these conditions, the owner or operator may determine the average gas flow rate produced by the power fans ( e.g., from vendor-supplied fan curves) to the building vent. The owner or operator may calculate the average gas velocity at the building vent measurement site using Equation 1 of this section and use this average velocity in determining and maintaining isokinetic sampling rates. (§60.675(e)(4))

$$V_e = \frac{Q_f}{A_e}$$

Where:

$V_e$  = average building vent velocity (feet per minute);

$Q_f$  = average fan flow rate (cubic feet per minute); and

$A_e$  = area of building vent and measurement location (square feet).

- f) To comply with §60.676(d), the owner or operator shall record the measurements as required in §60.676(c) using the monitoring devices in §60.674 (a)(1) and (2) during each particulate matter run and shall determine the averages. (§60.675(f))
- g) For performance tests involving only Method 9 (40 CFR Part 60 Appendix A–4) testing, the owner or operator may reduce the 30-day advance notification of performance test in §60.7(a)(6) and 60.8(d) to a 7-day advance notification. (§60.675(g))
- h) If the initial performance test date for an affected facility falls during a seasonal shut down (as defined in §60.671 of this subpart) of the affected facility, then with approval from the permitting authority, the owner or operator may postpone the initial performance test until no later than 60 calendar days after resuming operation of the affected facility. (§60.675(i))

**Reporting/Recordkeeping:**

- a) Each owner or operator seeking to comply with §60.670(d) shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment. (§60.676(a))
  - 1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station: (§60.676(a)(1))
    - (i) The rated capacity in megagrams or tons per hour of the existing facility being replaced and (§60.676(a)(1)(i))
    - (ii) The rated capacity in tons per hour of the replacement equipment. (§60.676(a)(1)(ii))
  - 2) For a screening operation: (§60.676(a)(2))
    - (i) The total surface area of the top screen of the existing screening operation being replaced and (§60.676(a)(2)(i))
    - (ii) The total surface area of the top screen of the replacement screening operation. (§60.676(a)(2)(ii))
  - 3) For a conveyor belt: (§60.676(a)(3))

- (i) The width of the existing belt being replaced and (§60.676(a)(3)(i))
  - (ii) The width of the replacement conveyor belt. (§60.676(a)(3)(ii))
- 4) For a storage bin: (§60.676(a)(4))
  - (i) The rated capacity in megagrams or tons of the existing storage bin being replaced and (§60.676(a)(4)(i))
  - (ii) The rated capacity in megagrams or tons of replacement storage bins. (§60.676(a)(4)(ii))
- b)1) Owners or operators of affected facilities (as defined in §§60.670 and 60.671) for which construction, modification, or reconstruction commenced on or after April 22, 2008, must record each periodic inspection required under §60.674(b) or (c), including dates and any corrective actions taken, in a logbook (in written or electronic format). The owner or operator must keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Administrator upon request. (§60.676(b)(1))
  - 2) For each bag leak detection system installed and operated according to §60.674(d), the owner or operator must keep the records specified in §60.676(b)(2)(i) through (iii). (§60.676(b)(2))
    - (i) Records of the bag leak detection system output; (§60.676(b)(2)(i))
    - (ii) Records of bag leak detection system adjustments, including the date and time of the adjustment, the initial bag leak detection system settings, and the final bag leak detection system settings; and (§60.676(b)(2)(ii))
    - (iii) The date and time of all bag leak detection system alarms, the time that procedures to determine the cause of the alarm were initiated, the cause of the alarm, an explanation of the actions taken, the date and time the cause of the alarm was alleviated, and whether the cause of the alarm was alleviated within 3 hours of the alarm. (§60.676(b)(2)(iii))
  - 3) The owner or operator of each affected facility demonstrating compliance according to §60.674(e) by following the requirements for processed stone handling operations in the Lime Manufacturing NESHAP (40 CFR Part 63, Subpart AAAAA) must maintain records of visible emissions observations required by §63.7132(a)(3) and (b) of 40 CFR Part 63, Subpart AAAAA. (§60.676(b)(3))
- c) During the initial performance test of a wet scrubber, and daily thereafter, the owner or operator shall record the measurements of both the change in pressure of the gas stream across the scrubber and the scrubbing liquid flow rate. (§60.676(c))
- d) After the initial performance test of a wet scrubber, the owner or operator shall submit semi-annual reports to the Administrator of occurrences when the measurements of the scrubber pressure loss and liquid flow rate decrease by more than 30 percent from the average determined during the most recent performance test. (§60.676(d))
- e) The reports required under §60.676(d) shall be postmarked within 30 days following end of the second and fourth calendar quarters. (§60.676(e))
- f) The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672 of this subpart, including reports of opacity observations made using Method 9 (40 CFR Part 60, Appendix A-4) to demonstrate compliance with §60.672(b), (e) and (f). (§60.676(f))
- g) The owner or operator of any wet material processing operation that processes saturated and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. At the time of such change, this screening operation, bucket elevator, or belt conveyor becomes subject to the applicable opacity limit in §60.672(b) and the emission test requirements of §60.11. (§60.676(g))
- h) The Subpart A requirement under §60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under this subpart. (§60.676(h))

- i) A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator. (§60.676(i))
  - 1) For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available. (§60.676(i)(1))
  - 2) For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location of the portable plant. (§60.676(i)(2))
- j) The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under Section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such States. In that event, affected facilities within the State will be relieved of the obligation to comply with the reporting requirements of this section, provided that they comply with requirements established by the State. (§60.676(j))
- k) Notifications and reports required under this subpart and under Subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to §60.4(b). (§60.676(k))
- l) All records shall be kept for no less than five years and be made available immediately to any Missouri Department of Natural Resources' personnel upon request.
- m) If at any time the emission limitations of this subpart should be exceeded or a malfunction occur which could possibly cause an exceedance, 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 (10) days after the exceedance.
- n) The permittee shall report any deviations from the monitoring/recordkeeping and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION (EU0010 through EU0180)-002**

10 CSR 10-6.060 Construction Permits Required  
Construction Permit No. 082005-023, Issued August 29, 2005

**Moisture Content Testing of Processed Rock Requirement:**

Particulate emissions will be controlled by the moisture content of the processed rock, which has been tested at greater than or equal to 1.5 percent by weight. The permittee shall conduct periodic moisture content tests to demonstrate continued compliance with the above moisture content of the processed rock. (Special Condition # 7)

**Monitoring:**

- a) The permittee shall conduct moisture content tests 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.
- b) This testing shall be done at least once per year on each processed rock during that year.
- c) Rock samples shall be obtained prior to the primary emission unit.

- d) If any test indicates that the moisture content of the processed rock is less than 1.5 percent by weight, a second test must be done within 30 days. If this second test also indicates that the moisture content of the processed rock is less than 1.5 percent by weight, then the permittee will immediately submit a request to amend this permit to account for the revised information.

**Recordkeeping:**

- a) The permittee shall maintain records of all test results, including the following data:  
 1) Wet weight, dry weight, drying time, and moisture content of each rock sample;  
 2) Test date; and  
 3) Name and title of the individual performing the moisture content analysis.
- b) All records shall be maintained for five (5) years. They shall be kept onsite for at least two (2) years. They may be kept in either hard-copy form or on computer media.
- c) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon their verbal request and presentation of identification.

**Reporting:**

- a) The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65 102, no later than ten (10) days after obtaining a second set of test results indicating a moisture content less than 1.5 percent in any processed rock.
- b) The permittee shall include copies of all test results for the year with this site's annual Emission Inventory Questionnaire.
- c) Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted annually, in the annual monitoring report and compliance certification, as required by Section V of this permit.

<b>EU0190 and EU0192 – Diesel Engines</b>			
<b>Emission Unit</b>	<b>Description/ Mfg. year</b>	<b>Manufacturer /Model #</b>	<b>2010 EIQ Reference #</b>
EU0190	Diesel Engine on Rock Crushing Plant Number 2, 475 hp/2008	John Deere 13.5L	EP-12E
EU0191	Diesel Engine on Rock Crushing Plant Number 1, 400 hp/1999	Cummins/QSK19-P	EP-11E
EU0192	Diesel Engine on Pugmill, 325 hp/1990	John Deere	EP-30A

**PERMIT CONDITION (EU0190 through EU0192)-001**

10 CSR 10-6.075, Maximum Achievable Control Technology Regulations; and  
 40 CFR Part 63 Subpart ZZZZ- National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines; and  
 40 CFR Part 63 Subpart A-General Provisions

**For EU0190 only:**

Stationary RICE subject to Regulations under 40 CFR Part 60: A new stationary RICE located at an area source must meet the requirements of this part by meeting the requirements of 40 CFR Part 60 Subpart III, for compression ignition engines. No further requirements apply for such engines under this part. (§63.65909(c)(1))

**The rest of this permit condition applies to EU0191 and EU0192 only:**

**Compliance Dates**

- a) Affected sources.
  - 1) If you have an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than May 3, 2013. (§63.6595(a)(1))
- b) Area sources that become major sources. If you have an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP, the compliance dates in §63.6595(b)(1) and (2) apply to you. (§63.6595(b))
  - 1) Any stationary RICE for which construction or reconstruction is commenced after the date when your area source becomes a major source of HAP must be in compliance with this subpart upon startup of your affected source. (§63.6595(b)(1))
  - 2) Any stationary RICE for which construction or reconstruction is commenced before your area source becomes a major source of HAP must be in compliance with the provisions of this subpart that are applicable to RICE located at major sources within three years after your area source becomes a major source of HAP. (§63.6595(b)(2))
- c) If you own or operate an affected source, you must meet the applicable notification requirements in §63.6645 and in 40 CFR Part 63, Subpart A. (§63.6595(c))

**Emissions Limitations**

- a) Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart. (§63.6603)
- b) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart. (§63.6603(a))
  - 1) For Non-Emergency, non-black start CI stationary RICE 300<HP≤500: (Table 2d)
    - i. Limit concentration of CO in the stationary RICE exhaust to 49ppmvd at 15 percent O<sub>2</sub>; or
    - ii. Reduce CO emissions by 70 percent or more.
- c) If you own or operate an existing non-emergency, non-black start CI stationary RICE with a site rating of more than 300 brake HP with a displacement of less than 30 liters per cylinder that uses diesel fuel, you must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel. (§63.6604)
- d) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times. (§63.6605(a))
- e) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (§63.6605(b))

**Testing and Initial Compliance Requirements:**

- a) You must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to this subpart that apply to you within 180 days after the compliance date that is

specified for your stationary RICE in §63.6595 and according to the provisions in §63.7(a)(2). (§63.6612(a))

- 1) Table 4 is included as Attachment H.
  - 2) To comply with the requirement to reduce CO emissions, initial compliance is demonstrated if the average reduction of emissions of CO determined from the initial performance test is equal to or greater than the required CO percent reduction. (Table 5)
  - 3) To comply with the requirement to limit the concentration of CO in the stationary RICE exhaust, initial compliance is demonstrated if the average CO concentration, corrected to 15 percent O<sub>2</sub>, dry basis, from the three test runs is less than or equal to the CO emission limitation. (Table 5)
- b) An owner or operator is not required to conduct an initial performance test on a unit for which a performance test has been previously conducted, but the test must meet all of the conditions described in §63.6612(b)(1) through (4). (§63.6612(b))
- 1) The test must have been conducted using the same methods specified in this subpart, and these methods must have been followed correctly. (§63.6612(b)(1))
  - 2) The test must not be older than 2 years. (§63.6612(b)(2))
  - 3) The test must be reviewed and accepted by the Administrator. (§63.6612(b)(3))
  - 4) Either no process or equipment changes must have been made since the test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes. (§63.6612(b)(4))

**Testing Procedures:**

- a) You must conduct each performance test in Table 4 (see Attachment H) of this subpart that applies to you. (§63.6620(a))
- b) Each performance test must be conducted according to the requirements that this subpart specifies in Table 4 to this subpart. If you own or operate a non-operational stationary RICE that is subject to performance testing, you do not need to start up the engine solely to conduct the performance test. Owners and operators of a non-operational engine can conduct the performance test when the engine is started up again. (§63.6620(b))
- c) You must conduct three separate test runs for each performance test required in this section, as specified in §63.7(e)(3). Each test run must last at least 1 hour. (§63.6620(d))
- d)1) You must use Equation 1 of this section to determine compliance with the percent reduction requirement: (§63.6620(e)(1))

$$\frac{C_i - C_o}{C_i} \times 100 = R \quad (\text{Eq. 1})$$

Where:

$C_i$  = concentration of CO at the control device inlet,

$C_o$  = concentration of CO at the control device outlet, and

$R$  = percent reduction of CO emissions.

- 2) You must normalize the carbon monoxide (CO) concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO<sub>2</sub>). If pollutant concentrations are to be corrected to 15 percent oxygen and CO<sub>2</sub> concentration is measured in lieu of oxygen concentration measurement, a CO<sub>2</sub> correction factor is needed. Calculate the CO<sub>2</sub> correction factor as described in §63.6620(e)(2)(i) through (iii). (§63.6620(e)(2))

- (i) Calculate the fuel-specific  $F_o$  value for the fuel burned during the test using values obtained from Method 19, Section 5.2, and the following equation: (§63.6620(e)(2)(i))

$$F_o = \frac{0.209F_d}{F_c} \quad (\text{Eq. 2})$$

Where:

$F_o$  = Fuel factor based on the ratio of oxygen volume to the ultimate CO<sub>2</sub> volume produced by the fuel at zero percent excess air.

0.209 = Fraction of air that is oxygen, percent/100.

$F_d$  = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm<sup>3</sup> /J (dscf/106 Btu).

$F_c$  = Ratio of the volume of CO<sub>2</sub> produced to the gross calorific value of the fuel from Method 19, dsm<sup>3</sup> /J (dscf/106 Btu).

- (ii) Calculate the CO<sub>2</sub> correction factor for correcting measurement data to 15 percent oxygen, as follows: (§63.6620(e)(2)(ii))

$$X_{CO_2} = \frac{5.9}{F_o} \quad (\text{Eq. 3})$$

Where:

$X_{CO_2}$  = CO<sub>2</sub> correction factor, percent.

5.9 = 20.9 percent O<sub>2</sub> – 15 percent O<sub>2</sub>, the defined O<sub>2</sub> correction value, percent.

- (iii) Calculate the NO<sub>x</sub> and SO<sub>2</sub> gas concentrations adjusted to 15 percent O<sub>2</sub> using CO<sub>2</sub> as follows: (§63.6620(e)(2)(iii))

$$C_{adj} = C_d \frac{X_{CO_2}}{\% CO_2} \quad (\text{Eq. 4})$$

Where:

% CO<sub>2</sub> = Measured CO<sub>2</sub> concentration measured, dry basis, percent.

- e) If you comply with the emission limitation to reduce CO and you are not using an oxidation catalyst, you must petition the Administrator for operating limitations to be established during the initial performance test and continuously monitored thereafter; or for approval of no operating limitations. You must not conduct the initial performance test until after the petition has been approved by the Administrator.
- f) If you petition the Administrator for approval of operating limitations, your petition must include the information described in §63.6620(g)(1) through (5). (§63.6620(g))
- 1) Identification of the specific parameters you propose to use as operating limitations; (§63.6620(g)(1))

- 2) A discussion of the relationship between these parameters and HAP emissions, identifying how HAP emissions change with changes in these parameters, and how limitations on these parameters will serve to limit HAP emissions; (§63.6620(g)(2))
- 3) A discussion of how you will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations; (§63.6620(g)(3))
- 4) A discussion identifying the methods you will use to measure and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and (§63.6620(g)(4))
- 5) A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters. (§63.6620(g)(5))
- g) If you petition the Administrator for approval of no operating limitations, your petition must include the information described in §63.6620(h)(1) through (7). (§63.6620(h))
  - 1) Identification of the parameters associated with operation of the stationary RICE and any emission control device which could change intentionally ( e.g., operator adjustment, automatic controller adjustment, etc.) or unintentionally ( e.g., wear and tear, error, etc.) on a routine basis or over time; (§63.6620(h)(1))
  - 2) A discussion of the relationship, if any, between changes in the parameters and changes in HAP emissions; (§63.6620(h)(2))
  - 3) For the parameters which could change in such a way as to increase HAP emissions, a discussion of whether establishing limitations on the parameters would serve to limit HAP emissions; (§63.6620(h)(3))
  - 4) For the parameters which could change in such a way as to increase HAP emissions, a discussion of how you could establish upper and/or lower values for the parameters which would establish limits on the parameters in operating limitations; (§63.6620(h)(4))
  - 5) For the parameters, a discussion identifying the methods you could use to measure them and the instruments you could use to monitor them, as well as the relative accuracy and precision of the methods and instruments; (§63.6620(h)(5))
  - 6) For the parameters, a discussion identifying the frequency and methods for recalibrating the instruments you could use to monitor them; and (§63.6620(h)(6))
  - 7) A discussion of why, from your point of view, it is infeasible or unreasonable to adopt the parameters as operating limitations. (§63.6620(h)(7))
- h) The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided. (§63.6620(i))

**Monitoring, Installation, Collection, Operation, and Maintenance requirements:**

- a) If you own or operate an existing non-emergency, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system, you must comply with either §63.6625(g)(1) or (2). Owners and operators must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and

replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements. (§63.6625(g))

- 1) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or (§63.6625(g)(1))
  - 2) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals. (§63.6625(g)(2))
- b) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Table 2d to this subpart apply. (§63.6625(h))

**Continuous Compliance Requirements:**

- a) If you must comply with emission and operating limitations, you must monitor and collect data according to §63.6635. (§63.6635(a))
- b) Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, you must monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. (§63.6635(b))
- c) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must, however, use all the valid data collected during all other periods. (§63.6635(c))
- d) You must report each instance in which you did not meet each emission limitation in Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE. (63.6640(b))
- e) You must also report each instance in which you did not meet the requirements in Table 8 (See Attachment I) to this subpart that apply to you. (63.6640(e))

**Notifications:**

- a) You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate an existing stationary RICE located at an area source of HAP emissions. (§63.6645(a)(2))
- b) If you are required to conduct a performance test, you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in §63.7(b)(1). (§63.6645(g))
- c) If you are required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii). (§63.6645(h))
  - 1) For each initial compliance demonstration required in Table 5 to this subpart that does not include a performance test, you must submit the Notification of Compliance Status before the

close of business on the 30th day following the completion of the initial compliance demonstration. (§63.6645(h)(1))

**Recordkeeping:**

§ 63.6655 What records must I keep?

- a) If you must comply with the emission and operating limitations, you must keep the records described in §63.6655(a)(1) through (a)(5), (b)(1) through (b)(3) and (c). (§63.6655(a))
  - 1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv). (§63.6655(a)(1))
  - 2) Records of the occurrence and duration of each malfunction of operation ( i.e., process equipment) or the air pollution control and monitoring equipment. (§63.6655(a)(2))
  - 3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii). (§63.6655(a)(3))
  - 4) Records of all required maintenance performed on the air pollution control and monitoring equipment. (§63.6655(a)(4))
  - 5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. (§63.6655(a)(5))
- b) For each CEMS or CPMS, you must keep the records listed in §63.6655(b)(1) through (3). (§63.6655(b))
  - 1) Records described in §63.10(b)(2)(vi) through (xi). (§63.6655(b)(1))
  - 2) Previous ( i.e., superseded) versions of the performance evaluation plan as required in §63.8(d)(3). (§63.6655(b)(2))
  - 3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in §63.8(f)(6)(i), if applicable. (§63.6655(b)(3))
- c) Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1). (§63.6660(a))
- d) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. (§63.6660(b))
- e) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). (§63.6660(c))

**Reporting:**

- a) You must submit each report in Table 7 (see Attachment J) of this subpart that applies to you. (§63.6650(a))
- b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in §63.6650(b)(1) through (b)(9). (§63.6650(b))
  - 1) For semi-annual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.6595. (§63.6650(b)(1))

- 2) For semi-annual Compliance reports, the first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.6595. (§63.6650(b)(2))
- 3) For semi-annual Compliance reports, each subsequent Compliance report must cover the semi-annual reporting period from January 1 through June 30 or the semi-annual reporting period from July 1 through December 31. (§63.6650(b)(3))
- 4) For semi-annual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semi-annual reporting period. (§63.6650(b)(4))
- 5) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR Part 70 or 71, and if the permitting authority has established dates for submitting semi-annual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in §63.6650(b)(1) through (b)(4). (§63.6650(b)(5))
- 6) For annual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on December 31. (§63.6650(b)(6))
- 7) For annual Compliance reports, the first Compliance report must be postmarked or delivered no later than January 31 following the end of the first calendar year after the compliance date that is specified for your affected source in §63.6595. (§63.6650(b)(7))
- 8) For annual Compliance reports, each subsequent Compliance report must cover the annual reporting period from January 1 through December 31. (§63.6650(b)(8))
- 9) For annual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than January 31. (§63.6650(b)(9))
- c) The Compliance report must contain the information in §63.6650 (c)(1) through (6). (§63.6650(c))
  - 1) Company name and address. (§63.6650(c)(1))
  - 2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report. (§63.6650(c)(2))
  - 3) Date of report and beginning and ending dates of the reporting period. (§63.6650(c)(3))
  - 4) If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §63.6605(b), including actions taken to correct a malfunction. (§63.6650(c)(4))
  - 5) If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period. (§63.6650(c)(5))
  - 6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period. (§63.6650(c)(6))
- d) For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in §63.6650(c)(1) through (4) and the information in §63.6650(d)(1) and (2). (§63.6650(d))

- 1) The total operating time of the stationary RICE at which the deviation occurred during the reporting period. (§63.6650(d)(1))
- 2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken. (§63.6650(d)(2))
- e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in §63.6650(c)(1) through (4) and (e)(1) through (12). (§63.6650(e))
  - 1) The date and time that each malfunction started and stopped. (§63.6650(e)(1))
  - 2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks. (§63.6650(e)(2))
  - 3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8). (§63.6650(e)(3))
  - 4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period. (§63.6650(e)(4))
  - 5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period. (§63.6650(e)(5))
  - 6) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes. (§63.6650(e)(6))
  - 7) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period. (§63.6650(e)(7))
  - 8) An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE. (§63.6650(e)(8))
  - 9) A brief description of the stationary RICE. (§63.6650(e)(9))
  - 10) A brief description of the CMS. (§63.6650(e)(10))
  - 11) The date of the latest CMS certification or audit. (§63.6650(e)(11))
  - 12) A description of any changes in CMS, processes, or controls since the last reporting period. (§63.6650(e)(12))
- f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR Part 70 or 71 must report all deviations as defined in this subpart in the semi-annual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semi-annual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semi-annual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority. (§63.6650(f))
- g) If at any time the emission limitations of this subpart should be exceeded or a malfunction occur which could possibly cause an exceedance, 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 (10) days after the exceedance.
- h) The permittee shall report any deviations from the monitoring/recordkeeping and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION (EU0190 through EU0192)-002**

10 CSR 10-6.070, New Source Performance Regulations; and  
40 CFR Part 60 Subpart IIII—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines; and  
40 CFR Part 60 Subpart A-General Provisions

**Emission Standards:**

- a) Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder must comply with the emission standards in Table 1 (See Attachment K) to this subpart. Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder must comply with the emission standards in 40 CFR 94.8(a)(1). (§60.4204(a))
- b) Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new CI engines in §60.4201 for their 2007 model year and later stationary CI ICE, as applicable. (§60.4204(b))
- c) Owners and operators of non-emergency stationary CI engines with a displacement of greater than or equal to 30 liters per cylinder must meet the following requirements: (§60.4204(c))
  - 1) For engines installed prior to January 1, 2012, limit the emissions of NO<sub>x</sub> in the stationary CI internal combustion engine exhaust to the following: (§60.4204(c)(1))
    - (i) 17.0 grams per kilowatt-hour (g/KW-hr) (12.7 grams per horsepower-hr (g/HP-hr)) when maximum engine speed is less than 130 revolutions per minute (rpm); (§60.4204(c)(1)(i))
    - (ii)  $45 * n^{-0.2}$  g/KW-hr ( $34 * n^{-0.2}$  g/HP-hr) when maximum engine speed is 130 or more but less than 2,000 rpm, where n is maximum engine speed; and (§60.4204(c)(1)(ii))
    - (iii) 9.8 g/KW-hr (7.3 g/HP-hr) when maximum engine speed is 2,000 rpm or more. (§60.4204(c)(1)(iii))
  - 2) Reduce particulate matter (PM) emissions by 60 percent or more, or limit the emissions of PM in the stationary CI internal combustion engine exhaust to 0.15 g/KW-hr (0.11 g/HP-hr). (§60.4204(c)(4))
- d) Owners and operators of non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the not-to-exceed (NTE) standards as indicated in §60.4212. (§60.4204(d))
- e) Owners and operators of any modified or reconstructed non-emergency stationary CI ICE subject to this subpart must meet the emission standards applicable to the model year, maximum engine power, and displacement of the modified or reconstructed non-emergency stationary CI ICE that are specified in §60.4204(a) through (d). (§60.4204(e))
- f) Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 over the entire life of the engine. (§60.4206)

**Fuel Requirements:**

- a) Beginning October 1, 2007, owners and operators of stationary CI ICE subject to this subpart that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(a). (§60.4207(a))

- b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must purchase diesel fuel that meets the requirements of 40 CFR 80.510(b) for non-road diesel fuel. (§60.4207(b))
- c) Beginning June 1, 2012, owners and operators of stationary CI ICE subject to this subpart with a displacement of greater than or equal to 30 liters per cylinder are no longer subject to the requirements of §60.4207(a), and must use fuel that meets a maximum per-gallon sulfur content of 1,000 parts per million (ppm). (§60.4207(d))

**Other Requirements:**

- a) After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines. (§60.4208(a))
- b) After December 31, 2009, owners and operators may not install stationary CI ICE with a maximum engine power of less than 19 KW (25 HP) (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines. (§60.4208(b))
- c) In addition to the requirements specified in §§60.4201, 60.4202, 60.4204, and 60.4205, it is prohibited to import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements specified in §60.4208(a) through (g) after the dates specified in §60.4208(a) through (g). (§60.4208(h))
- d) The requirements of this section do not apply to owners or operators of stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location. (§60.4208(i))
- e) Table 8 (see Attachment M) to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you. (§60.4218)

**Monitoring:**

If you are an owner or operator, you must meet the monitoring requirements of this section. In addition, you must also meet the monitoring requirements specified in §60.4211.

- a) If you are an owner or operator of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine. (§60.4209(a))
- b) If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. (§60.4209(b))

**Compliance Requirements:**

- a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must do all of the following, except as permitted under §60.4211(g): (§60.4211(a))
  - 1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; (§60.4211(a)(1))
  - 2) Change only those emission-related settings that are permitted by the manufacturer; and (§60.4211(a)(2))
  - 3) Meet the requirements of 40 CFR Parts 89, 94 and/or 1068, as they apply to you. (§60.4211(a)(3))
- b) If you are an owner or operator of a pre-2007 model year stationary CI internal combustion engine and must comply with the emission standards specified in §§60.4204(a) or 60.4205(a), you must

demonstrate compliance according to one of the methods specified in §60.4211(b)(1) through (5). (§60.4211(b))

- 1) Purchasing an engine certified according to 40 CFR Part 89 or 40 CFR Part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications. (§60.4211(b)(1))
  - 2) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly. (§60.4211(b)(2))
  - 3) Keeping records of engine manufacturer data indicating compliance with the standards. (§60.4211(b)(3))
  - 4) Keeping records of control device vendor data indicating compliance with the standards. (§60.4211(b)(4))
  - 5) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in §60.4212, as applicable. (§60.4211(b)(5))
- c) If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), you must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in §60.4211(g). (§60.4211(c))
- d) If you are an owner or operator and must comply with the emission standards specified in §60.4204(c) or §60.4205(d), you must demonstrate compliance according to the requirements specified in §60.4211(d)(1) through (3). (§60.4211(d))
- 1) Conducting an initial performance test to demonstrate initial compliance with the emission standards as specified in §60.4213. (§60.4211(d)(1))
  - 2) Establishing operating parameters to be monitored continuously to ensure the stationary internal combustion engine continues to meet the emission standards. The owner or operator must petition the Administrator for approval of operating parameters to be monitored continuously. The petition must include the information described in §60.4211(d)(2)(i) through (v). (§60.4211(d)(2))
    - (i) Identification of the specific parameters you propose to monitor continuously; (§60.4211(d)(2)(i))
    - (ii) A discussion of the relationship between these parameters and NO<sub>x</sub> and PM emissions, identifying how the emissions of these pollutants change with changes in these parameters, and how limitations on these parameters will serve to limit NO<sub>x</sub> and PM emissions; (§60.4211(d)(2)(ii))
    - (iii) A discussion of how you will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations; (§60.4211(d)(2)(iii))
    - (iv) A discussion identifying the methods and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and
    - (v) A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters. (§60.4211(d)(2)(iv))
  - 3) For non-emergency engines with a displacement of greater than or equal to 30 liters per cylinder, conducting annual performance tests to demonstrate continuous compliance with the emission standards as specified in §60.4213. (§60.4211(d)(3))

- e) If you are an owner or operator of a modified or reconstructed stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(e) or §60.4205(f), you must demonstrate compliance according to one of the methods specified in §60.4211(e)(1) or (2). (§60.4211(e))
  - 1) Purchasing, or otherwise owning or operating, an engine certified to the emission standards in §60.4204(e) or §60.4205(f), as applicable. (§60.4211(e)(1))
  - 2) Conducting a performance test to demonstrate initial compliance with the emission standards according to the requirements specified in §60.4212 or §60.4213, as appropriate. The test must be conducted within 60 days after the engine commences operation after the modification or reconstruction. (§60.4211(e)(2))
- f) If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows: (§60.4211(g))
  - 1) If you are an owner or operator of a stationary CI internal combustion engine greater than or equal to 100 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. (§60.4211(g)(2))

**Testing Requirements:**

Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart must do so according to §60.4121(a) through (e).

- a) The performance test must be conducted according to the in-use testing procedures in 40 CFR Part 1039, Subpart F, for stationary CI ICE with a displacement of less than 10 liters per cylinder, and according to 40 CFR Part 1042, Subpart F, for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder. (§60.4212(a))
- b) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR Part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for non-road diesel engines under 40 CFR Part 1039. (§60.4212(b))
- c) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation: (§60.4212(c))

$$\text{NTE requirement for each pollutant} = (1.25) * (\text{STD}) \quad (\text{Eq. 1})$$

Where:

STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in §60.4213 of this subpart, as appropriate.

- d) Exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in §60.4204(a), §60.4205(a), or §60.4205(c), determined from the equation in §60.4212(c). (§60.4212(d))

Where:

STD = The standard specified for that pollutant in §60.4204(a), §60.4205(a), or §60.4205(c).

Alternatively, stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) may follow the testing procedures specified in §60.4213, as appropriate.

- e) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR Part 1042 must not exceed the NTE standards for the same model year and maximum engine power as required in 40 CFR 1042.101(c). (§60.4212(e))

**Test Methods and Procedures:**

Owners and operators of stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder must conduct performance tests according to §60.4213(a) through (f).

- a) Each performance test must be conducted according to the requirements in §60.8 and under the specific conditions that this subpart specifies in Table 7 (See Attachment L). The test must be conducted within ten percent of 100 percent peak (or the highest achievable) load. (§60.4213(a))
- b) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §60.8(c). (§60.4213(b))
- c) You must conduct three separate test runs for each performance test required in this section, as specified in §60.8(f). Each test run must last at least 1 hour. (§60.4213(c))
- d) To determine compliance with the percent reduction requirement, you must follow the requirements as specified in §60.4213(d)(1) through (3). (§60.4213(d))
- 1) You must use Equation 2 of this section to determine compliance with the percent reduction requirement: (§60.4213(d)(1))

$$\frac{C_i - C_o}{C_i} \times 100 = R \quad (\text{Eq. 2})$$

Where:

$C_i$  = concentration of NO<sub>x</sub> or PM at the control device inlet,

$C_o$  = concentration of NO<sub>x</sub> or PM at the control device outlet, and

$R$  = percent reduction of NO<sub>x</sub> or PM emissions.

- 2) You must normalize the NO<sub>x</sub> or PM concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen (O<sub>2</sub>) using Equation 3 of this section, or an equivalent

percent carbon dioxide (CO<sub>2</sub>) using the procedures described in §60.4213(d)(3).  
(§60.4213(d)(2))

$$C_{adj} = C_d \frac{5.9}{20.9 - \%O_2} \quad (\text{Eq. 3})$$

Where:

$C_{adj}$  = Calculated NO<sub>x</sub> or PM concentration adjusted to 15 percent O<sub>2</sub>.

$C_d$  = Measured concentration of NO<sub>x</sub> or PM, uncorrected.

5.9 = 20.9 percent O<sub>2</sub>–15 percent O<sub>2</sub>, the defined O<sub>2</sub> correction value, percent.

$\%O_2$  = Measured O<sub>2</sub> concentration, dry basis, percent.

- 3) If pollutant concentrations are to be corrected to 15 percent O<sub>2</sub> and CO<sub>2</sub> concentration is measured in lieu of O<sub>2</sub> concentration measurement, a CO<sub>2</sub> correction factor is needed. Calculate the CO<sub>2</sub> correction factor as described in §60.4213(d)(3)(i) through (iii). (§60.4213(d)(3))

(i) Calculate the fuel-specific  $F_o$  value for the fuel burned during the test using values obtained from Method 19, Section 5.2, and the following equation: (§60.4213(d)(3)(i))

$$F_o = \frac{0.209F_d}{F_c} \quad (\text{Eq. 4})$$

Where:

$F_o$  = Fuel factor based on the ratio of O<sub>2</sub> volume to the ultimate CO<sub>2</sub> volume produced by the fuel at zero percent excess air.

0.209 = Fraction of air that is O<sub>2</sub>, percent/100.

$F_d$  = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm<sup>3</sup> /J (dscf/106 Btu).

$F_c$  = Ratio of the volume of CO<sub>2</sub> produced to the gross calorific value of the fuel from Method 19, dsm<sup>3</sup> /J (dscf/106 Btu).

(ii) Calculate the CO<sub>2</sub> correction factor for correcting measurement data to 15 percent O<sub>2</sub>, as follows: (§60.4213(d)(3)(ii))

$$X_{CO_2} = \frac{5.9}{F_o} \quad (\text{Eq. 5})$$

Where:

$X_{CO_2}$  = CO<sub>2</sub> correction factor, percent.

5.9 = 20.9 percent O<sub>2</sub>–15 percent O<sub>2</sub>, the defined O<sub>2</sub> correction value, percent.

(iii) Calculate the NO<sub>x</sub> and PM gas concentrations adjusted to 15 percent O<sub>2</sub> using CO<sub>2</sub> as follows: (§60.4213(d)(3)(iii))

$$C_{adj} = C_d \frac{X_{CO_2}}{\%CO_2} \quad (\text{Eq. 6})$$

Where:

$C_{adj}$  = Calculated NO<sub>x</sub> or PM concentration adjusted to 15 percent O<sub>2</sub>.

$C_d$  = Measured concentration of NO<sub>x</sub> or PM, uncorrected.

$\%CO_2$  = Measured CO<sub>2</sub> concentration, dry basis, percent.

- e) To determine compliance with the NO<sub>x</sub> mass per unit output emission limitation, convert the concentration of NO<sub>x</sub> in the engine exhaust using Equation 7 of this section: (§60.4213(e))

$$ER = \frac{C_d \times 1.912 \times 10^{-3} \times Q \times T}{KW - hour} \quad (\text{Eq. 7})$$

Where:

$ER$  = Emission rate in grams per KW-hour.

$C_d$  = Measured NO<sub>x</sub> concentration in ppm.

$1.912 \times 10^{-3}$  = Conversion constant for ppm NO<sub>x</sub> to grams per standard cubic meter at 25 degrees Celsius.

$Q$  = Stack gas volumetric flow rate, in standard cubic meter per hour.

$T$  = Time of test run, in hours.

$KW - hour$  = Brake work of the engine, in KW-hour.

- f) To determine compliance with the PM mass per unit output emission limitation, convert the concentration of PM in the engine exhaust using Equation 8 of this section: (§60.4213(f))

$$ER = \frac{C_{adj} \times Q \times T}{KW - hour} \quad (\text{Eq. 8})$$

Where:

$ER$  = Emission rate in grams per KW-hour.

$C_{adj}$  = Calculated PM concentration in grams per standard cubic meter.

$Q$  = Stack gas volumetric flow rate, in standard cubic meter per hour.

$T$  = Time of test run, in hours.

$KW - hour$  = Energy output of the engine, in KW.

**Notification, Reports, and Recordkeeping:**

- a) Owners and operators of non-emergency stationary CI ICE that are greater than 2,237 KW (3,000 HP), or have a displacement of greater than or equal to 10 liters per cylinder, or are pre-2007 model year engines that are greater than 130 KW (175 HP) and not certified, must meet the requirements of §60.4214(a)(1) and (2). (§60.4214(a))
- 1) Submit an initial notification as required in §60.7(a)(1). The notification must include the information in §60.4214(a)(1)(i) through (v). (§60.4214(a)(1))
    - (i) Name and address of the owner or operator; (§60.4214(a)(1)(i))

- (ii) The address of the affected source; (§60.4214(a)(1)(ii))
  - (iii) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement; (§60.4214(a)(1)(iii))
  - (iv) Emission control equipment; and (§60.4214(a)(1)(iv))
  - (v) Fuel used. (§60.4214(a)(1)(v))
- 2) Keep records of the information in §60.4214(a)(2)(i) through (iv). (§60.4214(a)(2))
- (i) All notifications submitted to comply with this subpart and all documentation supporting any notification. (§60.4214(a)(2)(i))
  - (ii) Maintenance conducted on the engine. (§60.4214(a)(2)(ii))
  - (iii) If the stationary CI internal combustion is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards. (§60.4214(a)(2)(iii))
  - (iv) If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards. (§60.4214(a)(2)(iv))
- b) If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached. (§60.4214(c))
- c) If at any time the emission limitations of this subpart should be exceeded or a malfunction occur which could possibly cause exceedance, 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 (10) days after the exceedance.
- d) The permittee shall report any deviations from the monitoring/recordkeeping and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION (EU0190 and EU0192)-002**

10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds

**Emission Limitations:**

- a) Emissions from any new source operation shall not contain more than five hundred parts per million by volume (500 ppmv) of sulfur dioxide.
- b) Stack gasses shall not contain more than thirty-five milligrams (35 mg) per cubic meter of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three hour time period.
- c) 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 10-6.01 0 Ambient Air Quality Standards.

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

**Operational Limitation/Monitoring/Recordkeeping/Reporting:**

Compliance with the sulfur compound emission limitations of this rule is assured when the permittee is in compliance with the Fuel Requirements of Permit Condition (EU0190-EU0192)-002.

**PERMIT CONDITION (EU0190 and EU0191)-003**

10 CSR 10-6.060 Construction Permits Required  
 Construction Permit No. 042009-008, Issued April 15, 2009

**Emission Limitations:**

The operator(s) shall ensure that the permittee's two diesel engines on rock crushing plants #1 and #2 emit less than 40.0 tons of nitrous oxides (NO<sub>x</sub>) into the atmosphere in any 12 month period from: (Special Condition #3)

- EU0190 Diesel Engine on Rock Crushing Plant Number 2 EP-12E
- EU0191 Diesel Engine on Rock Crushing Plant Number 1 EP-30A

**Monitoring/Recordkeeping:**

- a) The permittee shall maintain an accurate record of the monthly throughput for each engine.
- b) The monthly emissions of NO<sub>x</sub> from each engine shall be calculated as demonstrated in Attachment G or an equivalent form generated by the permittee.
- c) The permittee shall calculate their annual emission of NO<sub>x</sub> by summing the monthly emissions of each engine for the last twelve months. The annual emission will be calculated each month using the most recent twelve months' worth of monthly emission totals.
- d) All records shall be kept for no less than five years and be made available immediately to any Missouri Department of Natural Resources' personnel upon request.

**Reporting:**

- a) If at any time the yearly NO<sub>x</sub> emission limit of 40 tons should be exceeded or a malfunction occur which could possibly cause exceedance 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 (10) days after the exceedance.

- b) The permittee shall report any deviations from the monitoring/recordkeeping and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

<b>EU0200 through EU0240 – Asphalt Plant</b>			
<b>Emission Unit</b>	<b>Description</b>	<b>Manufacturer /Model #</b>	<b>2008 EIQ Reference #</b>
EU0200	Asphalt Plant Cold Bins	Homemade	EP-1
EU0210	Drum Dryer	Cedarapids/7224B	EP-2
EU0220	Elevators, Screens, Bins, and Mixer	Cedarapids/H340	EP-4
EU0230	Hot Asphalt Silo Loading	Cedarapids/H340	EP-7
EU0240	Hot Asphalt Loadout	Cedarapids/H340	EP-8

**PERMIT CONDITION (EU0220 through EU0240)-001**  
 10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants

**Emission Limitation:**

- a) 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 40 percent. The Drum Dryer (EU0210); Elevators, Screens, Bins, and Mixer (EU0220); Hot Asphalt Silo Loading (EU0230); and Hot Asphalt Loadout (EU0240) are existing sources for the purpose of this regulation.
- b) 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. The Asphalt Plant Cold Bins (EU0200) is a new source for the purposes of this regulation.
- c) Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any 60 minutes air contaminants with an opacity up to 60 percent.

**Monitoring:**

- a) The permittee shall conduct opacity readings on these emission units using the procedures contained in U.S. EPA Test Method 22. Readings are only required when the emission unit 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.
- b) The following monitoring schedule must be maintained:
  - 1) Weekly observations shall be conducted for a minimum of eight (8) consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then
  - 2) Observations must be made once every two weeks for a period of eight (8) weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then

- 3) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
- c) If the source reverts to daily monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

**Recordkeeping:**

- a) The permittee shall maintain records, using Attachment N and O or equivalent forms generated by the permit, of all observation results, 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.
- b) The permittee shall maintain records of any equipment malfunctions (see Attachment P).
- c) The permittee shall maintain records of any U.S. EPA Method 9 opacity test performed in accordance with this permit condition.
- d) These records shall be made available immediately for inspection to the Department of Natural Resources personnel upon request.
- e) All records must be maintained for five (5) years.

**Reporting:**

- a) The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than fifteen (15) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.
- b) The permittee shall report any deviations from the monitoring and recordkeeping requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION (EU0210 and EU0220)-002**

10 CSR 10-6.060 Construction Permits Required  
Construction Permit No. 082005-023, Issued August 29, 2005

**Operational Limitations:**

- a) The permittee shall control particulate matter emissions from the Drum Dryer (EU0210) and the hot Elevators (EU0220) with a cyclone and wet scrubber. (Special Condition #6.)
- b) The cyclone and wet scrubber shall be operated and maintained in accordance with the manufacturers' specifications. The wet scrubber shall be maintained at its calculated efficiency of 98 percent. (Special Condition # 6.)
- c) The cyclone and wet scrubber shall be in use at all times that the asphalt plant is producing asphalt concrete. (Special Condition #6.A.)

**Monitoring:**

- a) The wet scrubber shall have affixed to it a plate inscribed with the manufacturer's design flow rate to the scrubber. (Special Condition #6.B.)
- b) The wet scrubber shall be fitted with a device which will provide an easily read indication of the flow rate to the scrubber. This device shall be located near the plate required in monitoring requirement a) above, and shall read in the same units. (Special Condition #6.C.)

**Recordkeeping:**

- a) The permittee shall maintain records of all inspections and maintenance on the cyclone and wet scrubber.
- b) Attachment P contains a log including these recordkeeping requirements. This log, or an equivalent form created by the permittee, must be used to certify compliance with this requirement.
- c) All records shall be maintained for five (5) years. They shall be kept onsite for at least two (2) years. They may be kept in either hard-copy form or on computer media.
- d) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon their verbal request and presentation of identification.

**Reporting:**

The permittee shall report any deviations from the monitoring and recordkeeping requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION (EU0210 through EU0220)-003**  
 10 CSR 10-6.400 Restriction of Emission of Particulate Matter From Industrial Processes

**Emission Limitation:**

- a) Particulate matter shall not be emitted from EU0210 and EU0220 in excess of 56.8 lb/h .
- b) This emission rate was calculated using the following equation:  
 For process weight rates of 60,000 lb/h or more:  

$$E = 55.0(P)^{0.11} - 40$$
 Where:  
  
 E = rate of emission in lb/h  
 P = process weight rate in ton/h
- c) The concentration of particulate matter in the exhaust gases shall not exceed 0.30 grain per standard cubic feet of exhaust gases.

**Monitoring/Recordkeeping/Reporting:**

The permittee is assumed always to be in compliance with this regulation. Calculations demonstrating compliance are in Attachment Q. The permittee shall keep this attachment with this permit. No monitoring, additional recordkeeping or reporting is required for this permit condition.

<b>EU0250 through EU0270 – Stockpiles</b>		
<b>Emission Unit</b>	<b>Description</b>	<b>2008 EIQ Reference #</b>
EU0250	Rock Crushing Plant Number 1 Stockpile	EP-13A
EU0260	Rock Crushing Plant Number 2 Stockpile	EP-9E
EU0270	Pugmill Stockpile	EP-2B

**PERMIT CONDITION (EU0250 through EU0270)-001**  
 10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants

**Emission Limitation:**

- a) 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 40 percent.
- b) Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any 60 minutes air contaminants with an opacity up to 60 percent.

**Monitoring:**

- a) The permittee shall conduct opacity readings on these emission units using the procedures contained in U.S. EPA Test Method 22. Readings are only required when the emission unit 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.
- b) The following monitoring schedule must be maintained:
  - 1) Weekly observations shall be conducted for a minimum of eight (8) consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then
  - 2) Observations must be made once every two weeks for a period of eight (8) weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then
  - 3) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
- c) If the source reverts to daily monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

**Recordkeeping:**

- a) The permittee shall maintain records, using Attachment G and H or equivalent forms generated by the permit, of all observation results, 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.
- b) The permittee shall maintain records of any equipment malfunctions.
- c) The permittee shall maintain records of any U.S. EPA Method 9 opacity test performed in accordance with this permit condition.
- d) These records shall be made available immediately for inspection to the Department of Natural Resources personnel upon request.
- e) All records must be maintained for five (5) years.

**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 fifteen (15) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.

**PERMIT CONDITION (EU0250 through EU0270)-002**

10 CSR 10-6.060 Construction Permits Required  
Construction Permit No. 082005-023, Issued August 29, 2005

**Moisture Content Testing of Stockpiles Requirement:**

Particulate emissions will be controlled by the moisture content of the stockpiled rock, which has been tested at greater than or equal to 2.0 percent by weight. The permittee shall conduct periodic moisture content tests to demonstrate continued compliance with the above moisture content of the stockpiled rock. (Special Condition # 8)

**Monitoring:**

- a) The permittee shall conduct moisture content tests 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.
- b) This testing shall be done at least once per year on each stockpile existing during that year.
- c) Rock samples shall be obtained from the stockpiles.
- d) If any test indicates that the moisture content of the stockpiled rock is less than 2.0 percent by weight, a second test must be done within 30 days. If this second test also indicates that the moisture content of the stockpiled rock is less than 2.0 percent by weight, then the permittee will immediately submit a request to amend this permit to account for the revised information.

**Recordkeeping:**

- a) The permittee shall maintain records of all test results, including the following data:
  - 1) Wet weight, dry weight, drying time, and moisture content of each rock sample;
  - 2) Test date; and
  - 3) Name and title of the individual performing the moisture content analysis.
- b) All records shall be maintained for five (5) years. They shall be kept onsite for at least two (2) years. They may be kept in either hard-copy form or on computer media.
- c) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon their verbal request and presentation of identification.

**Reporting:**

- a) 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 (10) days after obtaining a second set of test results indicating a moisture content less than 2.0 percent in any stockpiled rock.
- b) The permittee shall include copies of all test results for the year with this site's annual Emission Inventory Questionnaire.
- c) Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted annually, in the annual monitoring report and compliance certification, as required by Section V of this permit.

**PERMIT CONDITION (EU0250 through EU0270)-003**

10 CSR 10-6.060 Construction Permits Required  
Construction Permit No. 042009-008, Issued April 15, 2009

**Best Management Practices:**

- a) The permittee shall control fugitive emissions from all of the haul roads and for vehicle activity areas around open stockpiles at this site by performing *Best Management Practices*. Options for Best Management Control Practices are at least one of the following: (Special Condition # 1)

- 
- b) Pavement of Stockpile Vehicle Activity Surfaces –
- 1) The operator(s) may pave all or any portion of the vehicle activity areas around the storage piles with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve control of fugitive emissions while the plant is operating.
  - 2) Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
  - 3) The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
- c) Usage of Chemical Dust Suppressants –
- 1) The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the vehicle activity areas around the open storage piles. The suppressant will be applied in accordance with the manufacturer's suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
  - 2) The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
  - 3) The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.
- d) Usage of Documented Watering –
- 1) The operator(s) shall control the fugitive emissions from all the vehicle activity areas around the storage piles at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating. (Refer to example for documented watering of haul roads.)
  - 2) The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operations (e.g., meteorological situations, precipitation events, freezing, etc.)
  - 3) Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
  - 4) 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. The operator(s) shall record a brief description of such events in the same log as the documented watering.
  - 5) The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

<b>EU0280 through EU0380 – Haul Roads</b>		
<i>Shorter Unpaved Haul Roads</i>		
<b>Emission Unit</b>	<b>Description</b>	<b>2008 EIQ Reference #</b>
EU0280	Asphalt Plant Unpaved Haul Road	EP-6
EU0290	Pit to Rock Crushing Plant Number 1 Unpaved Haul Road	EP-16A
EU0300	Rock Crushing Plant Number 1 to Stockpile Unpaved Haul Road	EP-16A1
EU0310	Pit to Rock Crushing Plant Number 2 Unpaved Haul Road	EP-10E
EU0320	Rock Crushing Plant Number 2 to Stockpile Unpaved Haul Road	EP-10E1
<i>Longer Unpaved Haul Roads</i>		
<b>Emission Unit</b>	<b>Description</b>	<b>2008 EIQ Reference #</b>
EU0330	Rock Crushing Plant Number 1 Sales Unpaved Haul Road	EP-16A2
EU0340	Rock Crushing Plant Number 2 Sales Unpaved Haul Road	EP-10E2
<i>Paved Haul Roads</i>		
<b>Emission Unit</b>	<b>Description</b>	<b>2008 EIQ Reference #</b>
EU0350	Asphalt Plant Paved Haul Road	EP-6A1
EU0360	Rock Crushing Plant Number 1 Sales Paved Haul Road	EP-16A3
EU0370	Rock Crushing Plant Number 1 Sales Paved Haul Road	EP-10E3
EU0380	Pugmill Paved Haul Road	EP-3B

<b>PERMIT CONDITION (EU0280 through EU0380)-001</b>
10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants

**Emission Limitation:**

- a) 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 40 percent.
- b) Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any 60 minutes air contaminants with an opacity up to 60 percent.

**Monitoring:**

- a) The permittee shall conduct opacity readings on these emission units using the procedures contained in U.S. EPA Test Method 22. Readings are only required when the emission unit 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.
- b) The following monitoring schedule must be maintained:
  - 1) Weekly observations shall be conducted for a minimum of eight (8) consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then
  - 2) Observations must be made once every two weeks for a period of eight (8) weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then

- 3) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
- c) If the source reverts to daily monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

**Recordkeeping:**

- a) The permittee shall maintain records, using Attachment N and O or equivalent forms generated by the permit, of all observation results, 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.
- b) The permittee shall maintain records of any equipment malfunctions (See Attachment P).
- c) The permittee shall maintain records of any USEPA Method 9 opacity test performed in accordance with this permit condition.
- d) These records shall be made available immediately for inspection to the Department of Natural Resources personnel upon request.
- e) All records must be maintained for five (5) years.

**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 fifteen (15) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.

**PERMIT CONDITION (EU0280 through EU0380)-002**

10 CSR 10-6.060 Construction Permits Required  
Construction Permit No. 042009-008, Issued April 15, 2009

**Best Management Practices:**

- a) The permittee shall control fugitive emissions from all of the haul roads and stockpiles at this site by performing *Best Management Practices*. Options for Best Management Control Practices are at least one of the following: (Special Condition # 1)
- b) Pavement of Road Surfaces –
  - 1) The operator(s) may pave all or any portion of the haul roads with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve "Control of Fugitive Emissions I" while the plant is operating.
  - 2) Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
  - 3) The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the haul road(s) as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
- c) Usage of Chemical Dust Suppressants –

- 1) The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the unpaved portions of the haul roads. The suppressant will be applied in accordance with the manufacturer's suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
  - 2) The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
  - 3) The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.
- d) Usage of Documented Watering –
- 1) The operator(s) shall control the fugitive emissions from all the unpaved portions of the haul roads at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating. For example, the operator(s) shall calculate the total square feet of unpaved vehicle activity area requiring control on any particular day, divide that product by 1,000, and multiply the quotient by 100 gallons for that day.
  - 2) The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operation (e.g., meteorological situations, precipitation events, freezing, etc.)
  - 3) Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
  - 4) 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. The operator(s) shall record a brief description of such events in the same log as the documented watering.
  - 5) The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

## 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. The following is only an excerpt from the regulation or code, and is provided for summary purposes only

### **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) Lead Belt Materials Co., Inc. 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 Lead Belt Materials Co., Inc. 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 Recordkeeping. 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 10-6.050 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 10-6.080 Emission Standards for Hazardous Air Pollutants and 40 CFR Part 61 Subpart M National Emission Standard for Asbestos**

- 1) The permittee shall follow the procedures and requirements of 40 CFR Part 61, Subpart M for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos.

- 2) The permittee shall conduct monitoring to demonstrate compliance with registration, certification, notification, and Abatement Procedures and Practices standards as specified in 40 CFR Part 61, Subpart M.

#### **10 CSR 10-6.100 Alternate Emission Limits**

Proposals for alternate emission limitations shall be submitted on Alternate Emission Limits Permit forms provided by the department. An installation owner or operator must obtain an Alternate Emission Limits Permit in accordance with 10 CSR 10-6.100 before alternate emission limits may become effective.

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

- 1) The permittee shall submit full emissions report either electronically via MoEIS, which requires Form 1.0 signed by an authorized company representative, or on Emission Inventory Questionnaire (EIQ) paper forms on the frequency specified in this rule and in accordance with the requirements outlined in this rule. Alternate methods of reporting the emissions, such as spreadsheet file, can be submitted for approval by the Director.
- 2) The permittee may be required by the Director to file additional reports.
- 3) Public Availability of Emission Data and Process Information. Any information obtained pursuant to the rule(s) of the Missouri Air Conservation Commission that would not be entitled to confidential treatment under 10 CSR 10-6.210 shall be made available to any member of the public upon request.
- 4) The permittee shall submit a full EIQ for the 2011, 2014, 2017, and 2020 reporting years. In the interim years the installation may submit a Reduced Reporting Form; however, if the installation's emissions increase or decrease by more than five tons when compared to their last submitted full EIQ, the installation shall submit a full EIQ rather than a Reduced Reporting Form.
- 5) The fees shall be payable to the Department of Natural Resources and shall be accompanied by the emissions report.
- 6) The permittee shall complete required reports on state supplied EIQ forms or electronically via MoEIS. Alternate methods of reporting the emissions can be submitted for approval by the Director. The reports shall be submitted to the Director by April 1 after the end of each reporting year. If the full emissions report is filed electronically via MoEIS, this due date is extended to May 1.
- 7) The reporting period shall end on December 31 of each calendar year. Each report shall contain the required information for each emission unit for the twelve (12)-month period immediately preceding the end of the reporting period.
- 8) The permittee shall collect, record and maintain the information necessary to complete the required forms during each year of operation of the installation.

#### **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**

**Emission Limitation:**

- 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.

**Monitoring:**

The permittee shall conduct inspections of its facilities sufficient to determine compliance with this regulation. If the permittee discovers a violation, the permittee shall undertake corrective action to eliminate the violation.

The permittee shall maintain the following monitoring schedule:

- 1) The permittee shall conduct weekly observations for a minimum of eight (8) consecutive weeks after permit issuance.
- 2) Should no violation of this regulation be observed during this period then-
  - a) The permittee may observe once every two (2) weeks for a period of eight (8) weeks.
  - b) If a violation is noted, monitoring reverts to weekly.
  - c) Should no violation of this regulation be observed during this period then-
    - i) The permittee may observe once per month.
    - ii) If a violation is noted, monitoring reverts to weekly.
- 3) If the permittee reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner to the initial monitoring frequency.

**Recordkeeping:**

The permittee shall document all readings on Attachment A, or its equivalent, noting the following:

- 1) Whether air emissions (except water vapor) remain visible in the ambient air beyond the property line of origin.
- 2) Whether the visible emissions were normal for the installation.
- 3) Whether equipment malfunctions contributed to an exceedance.
- 4) Any violations and any corrective actions undertaken to correct the violation.

**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 10-6.165 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.

**10 CSR 10-6.250 Asbestos Abatement Projects – Certification, Accreditation, and Business Exemption Requirements**

The permittee shall conduct all asbestos abatement projects within the procedures established for certification and accreditation by 10 CSR 10-6.250. This rule requires individuals who work in asbestos abatement projects to be certified by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires persons who hold exemption status from certain requirements of this rule to allow the department to monitor training provided to employees. Each individual who works in asbestos abatement projects must first obtain certification for the appropriate occupation from the department. Each person who offers training for asbestos abatement occupations must first obtain accreditation from the department. Certain business entities that meet the requirements for state-approved exemption status must allow the department to monitor training classes provided to employees who perform asbestos abatement.

**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 recordkeeping 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.
- 5) 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**

- 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)(E)2 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 Recordkeeping and Reporting Requirements**

- 1) Recordkeeping
  - 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, recordkeeping, 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**

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**

- 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 semi-annually (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 April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to the Air Pollution Control Program, 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 recordkeeping 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, 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 Josh Baker, Estimator/ QC Manager. 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 A**

Daily Ambient PM<sub>10</sub> Impact Tracking Record  
 (Solitary and Concurrent Same-Owner Operations)

<b>Date</b>								
<b>Rock Crushing Plant #1</b>	Daily Production (tons)							
	Ambient Impact Factor (µg/m <sup>3</sup> ton)	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228
	Daily Impact PM <sub>10</sub> Impact (µg/m <sup>3</sup> )							
<b>Rock Crushing Plant #2</b>	Daily Production (tons)							
	Ambient Impact Factor (µg/m <sup>3</sup> ton)	0.0135	0.0135	0.0135	0.0135	0.0135	0.0135	0.0135
	Daily Impact PM <sub>10</sub> Impact (µg/m <sup>3</sup> )							
<b>Asphalt Plant</b>	Daily Production (tons)							
	Ambient Impact Factor (µg/m <sup>3</sup> ton)	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435
	Daily Impact PM <sub>10</sub> Impact (µg/m <sup>3</sup> )							
<b>Pugmill</b>	Daily Production (tons)							
	Ambient Impact Factor (µg/m <sup>3</sup> ton)	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
	Daily Impact PM <sub>10</sub> Impact (µg/m <sup>3</sup> )							
Installation Daily PM <sub>10</sub> Impact								
Background PM <sub>10</sub> Level (µg/m <sup>3</sup> )		20	20	20	20	20	20	20
<b>Total PM<sub>10</sub> Level (µg/m<sup>3</sup>)</b>								

Daily Impact PM<sub>10</sub> Impact (µg/m<sup>3</sup>) = Daily Production (tons) x Ambient Impact Factor (µg/m<sup>3</sup>ton)

Installation Daily PM<sub>10</sub> Impact (µg/m<sup>3</sup>) = Daily Impact PM<sub>10</sub> Impact (µg/m<sup>3</sup>) of (Rock Crushing Plant #1 + Rock Crushing Plant #2 + Asphalt Plant + Pugmill)

Total PM<sub>10</sub> Level (µg/m<sup>3</sup>) = Installation Daily PM<sub>10</sub> Impact (µg/m<sup>3</sup>) + Background PM<sub>10</sub> Level (µg/m<sup>3</sup>)

\*Total PM<sub>10</sub> Level (µg/m<sup>3</sup>) must be less than 150 (µg/m<sup>3</sup>) in any 24-hour period to demonstrate compliance.

**ATTACHMENT B**

Daily Ambient PM<sub>10</sub> Impact Tracking Record  
 (Concurrent Separate-Owner and Same-and-Separate-Owner Operations)

<b>Date</b>								
<b>Rock Crushing Plant #1</b>	Daily Production (tons)							
	Ambient Impact Factor (µg/m <sup>3</sup> ton)	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228
	Daily Impact PM <sub>10</sub> Impact (µg/m <sup>3</sup> )							
<b>Rock Crushing Plant #2</b>	Daily Production (tons)							
	Ambient Impact Factor (µg/m <sup>3</sup> ton)	0.0135	0.0135	0.0135	0.0135	0.0135	0.0135	0.0135
	Daily Impact PM <sub>10</sub> Impact (µg/m <sup>3</sup> )							
<b>Asphalt Plant</b>	Daily Production (tons)							
	Ambient Impact Factor (µg/m <sup>3</sup> ton)	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435
	Daily Impact PM <sub>10</sub> Impact (µg/m <sup>3</sup> )							
<b>Pugmill</b>	Daily Production (tons)							
	Ambient Impact Factor (µg/m <sup>3</sup> ton)	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
	Daily Impact PM <sub>10</sub> Impact (µg/m <sup>3</sup> )							
Installation Daily PM <sub>10</sub> Impact								
Background PM <sub>10</sub> Level (µg/m <sup>3</sup> )		42.5	42.5	42.5	42.5	42.5	42.5	42.5
<b>Total PM<sub>10</sub> Level (µg/m<sup>3</sup>)</b>								

Daily Impact PM<sub>10</sub> Impact (µg/m<sup>3</sup>) = Daily Production (tons) x Ambient Impact Factor (µg/m<sup>3</sup>ton)

Installation Daily PM<sub>10</sub> Impact (µg/m<sup>3</sup>) = Daily Impact PM<sub>10</sub> Impact (µg/m<sup>3</sup>) of (Rock Crushing Plant #1 + Rock Crushing Plant #2 + Asphalt Plant + Pugmill)

Total PM<sub>10</sub> Level (µg/m<sup>3</sup>) = Installation Daily PM<sub>10</sub> Impact (µg/m<sup>3</sup>) + Background PM<sub>10</sub> Level (µg/m<sup>3</sup>)

\*Total PM<sub>10</sub> Level (µg/m<sup>3</sup>) must be less than 150 (µg/m<sup>3</sup>) in any 24-hour period to demonstrate compliance.





**ATTACHMENT E**

Table 2 to Subpart 000-Stack Emission Limits for Affected Facilities with Capture Systems

For....	The owner or operator must meet a PM limit of....	And the owner or operator must meet an opacity limit of...	The owner or operator must demonstrate compliance with these limits by conducting....
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	0.05 g/dscm (0.022 gr/dscf) <sup>A</sup>	7 percent for dry control devices <sup>B</sup>	An initial performance test according to §60.8 of this part and §60.675 of this subpart; and Monitoring of wet scrubber parameters according to §60.674(a) and §60.676(c), (d), and (e).
Affected facilities (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction after April 22, 2008	0.032 g/dscm (0.014 gr/dscf) <sup>A</sup>	Not applicable (except for individual enclosed storage bins) 7 percent for dry control devices on individual enclosed storage bins	An initial performance test according to §60.8 of this part and §60.675 of this subpart; and Monitoring of wet scrubber parameters according to §60.674(a) and §60.676(c), (d), and (e);and Monitoring of baghouse according to §60.6749c), (d), or (e) and §60.676(b).

<sup>A</sup> Exceptions to the PM limit apply for individual enclosed storage bins and other equipment. See §60.672(d) through (f).

<sup>B</sup> The stack opacity limit and associated opacity testing requirements do not apply for affected facilities using wet scrubbers.

**ATTACHMENT F**

Table 3 to Subpart 000-Fugitive Emission Limits

For...	The owner or operator must meet the following fugitive emission limit for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §§60.670 and 60.671)....	The owner or operator must meet the following fugitive emissions limit for crushers at which a capture system is used....	The owner or operator must demonstrate compliance with these limits by conducting....
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	10 percent opacity	15 percent opacity	An initial performance test according to §60.11 of this part and §60.675 of this subpart.
Affected facilities (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction after April 22, 2008	7 percent opacity	12 percent opacity	An initial performance test according to §60.11 of this part and §60.675 of this subpart; and Periodic inspections of water sprays according to §60.674(b) and §60.676(b); and A repeat performance test according to §60.11 of this part and §60.675 of this subpart within 5 years from the previous performance test for fugitive emissions from affected facilities without water sprays. Affected facilities controlled by water carryover from upstream water sprays that are inspected according to the requirements in §60.674(b) and §60.676(b) are exempt from this 5-year repeat testing requirement.



**ATTACHMENT H**

Table 4 to Subpart ZZZZ of Part 63—Requirements for Performance Tests

(This table has been modified from the original. This table only contains requirements that apply to Lead Belt Materials Co., Inc.)

For each...	Complying with the requirement to..	You must...	Using...	According to the following requirements...
1. CI Stationary RICE	a. Reduce CO emissions	i. Measure the O <sub>2</sub> at the inlet and outlet of the control device; and	(1) Portable CO and O <sub>2</sub> analyzer	(a) Using ASTM D6522-00 (2005) <sup>a</sup> (incorporated by reference, see §63.14). Measurements to determine O <sub>2</sub> must be made at the same time as the measurements for CO concentration.
		ii. Measure the CO at the inlet and the outlet of the control device	(1) Portable CO and O <sub>2</sub> analyzer	(a) Using ASTM D6522-00 (2005) <sup>ab</sup> (incorporated by reference, see §63.14) or Method 10 of 40 CFR appendix A.. The CO concentration must be at 15 percent O <sub>2</sub> , dry basis.
2. Stationary RICE	a. Limit the concentration of CO in the stationary RICE exhaust	i. Select the sampling port location and the number of traverse points; and	(1) Method 1 or 1A of 40 CFR Part 60, appendix A §63.7(d)(1)(i).	(a) If using a control device, the sampling site must be located at the outlet of the control device.
		ii. Determine the O <sub>2</sub> concentration of the stationary RICE exhaust at the sampling port location; and	(1) Method 3 or 3A or 3B of 40 CFR Part 60, appendix A, or ASTM Method D6522-00 (2005).	
		iii. Measure moisture content of the stationary RICE exhaust at the sampling port location; and	(1) Method 4 of 40 CFR Part 60, appendix A, or Test Method 320 of 40 CFR Part 63, appendix A, or ASTM D6348-03	
		iv. Measure CO at the exhaust of the stationary RICE	(1) Method 10 of 40 CFR Part 60, appendix A,, ASTM Method D6522-00 (2005) <sup>a</sup> , Method 320 of 40 CFR Part 63, appendix A, or ASTM D6348-03	(a) CO concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour runs.

<sup>a</sup>You may also use Methods 3A and 10 as options to ASTM–D6522–00 (2005). You may obtain a copy of ASTM–D6522–00 (2005) from at least one of the following addresses: American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428–2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106. ASTM–D6522–00 (2005) may be used to test both CI and SI stationary RICE.

<sup>b</sup>You may also use Method 320 of 40 CFR Part 63, appendix A, or ASTM D6348–03.

**ATTACHMENT I**

Table 8 to Subpart ZZZZ of Part 63—Applicability of General Provisions to Subpart ZZZZ.

As stated in §63.6665, you must comply with the following applicable general provisions.

General Provisions Citation	Subject of Citation	Applies to Subpart	Explanation
§63.1	General applicability of the General Provisions	Yes.	
§63.2	Definitions	Yes	Additional terms defined in §63.6675.
§63.3	Units and abbreviations	Yes.	
§63.4	Prohibited activities and circumvention	Yes.	
§63.5	Construction and Reconstruction	Yes.	
§63.6(a)	Applicability	Yes.	
§63.6(b)(1)-(4)	Compliance dates for new and reconstructed sources	Yes.	
§63.6(b)(5)	Notification	Yes.	
§63.6(b)(6)	[Reserved]		
§63.6(b)(7)	Compliance dates for new and reconstructed sources	Yes.	
§63.6(c)(1)-(2)	Compliance dates for existing sources	Yes.	
§63.6(c)(3)-(4)	[Reserved]		
§63.6(c)(5)	Compliance dates from existing area sources that become major sources	Yes.	
§63.6(d)	[Reserved]		
§63.6(e)	Operation and Maintenance	No.	
§63.6(f)(1)	Applicability of Standards	No.	
§63.6(f)(2)	Methods for determining compliance	Yes.	
§63.6(f)(3)	Finding of compliance	Yes.	
§63.6(g)(1)-(3)	Use of alternate standard	Yes.	
§63.6(h)	Opacity and visible emission standards	No	Subpart ZZZZ does not contain opacity or visible emission standards.
§63.6(i)	Compliance extension procedures and criteria	Yes.	
§63.6(j)	Presidential compliance exemption	Yes.	
§63.7(a)(1)-(2)	Performance test dates	Yes.	Subpart ZZZZ contains performance test dates at §§63.6610, 63.6611, and 63.6612.
§63.7(a)(3)	CAA Section 114 authority	Yes.	
§63.7(b)(1)	Notification of performance test	Yes.	Except that §63.7(b)(1) only applies as specified in §63.6645.
§63.7(b)(2)	Notification of rescheduling	Yes.	Except that §63.7(b)(2) only applies as specified in §63.6645.
§63.7(c)	Quality assurance/test plan	Yes	Except that §63.7(c) only applies as specified in §63.6645.
§63.7(d)	Testing facilities	Yes	
§63.7(e)(1)	Conditions for conducting performance tests	No.	Subpart ZZZZ specifies conditions for conducting performance tests at §63.6620.
§63.7(e)(2)	Conduct of performance tests and reduction of data	Yes.	Subpart ZZZZ specifies test methods at §63.6620.
§63.7(e)(3)	Test run duration	Yes.	
§63.7(e)(4)	Administrator may require other testing under Section 114 of the CAA	Yes.	
§63.7(f)	Alternative test method provisions	Yes.	

**ATTACHMENT I (con't)**

General Provisions Citation	Subject of Citation	Applies to Subpart	Explanation
§63.7(g)	Performance test data analysis, recordkeeping, and reporting	Yes.	
§63.7(h)	Waiver of tests	Yes.	
§63.8(a)(1)	Applicability of monitoring requirements	Yes.	Subpart ZZZZ contains specific requirements for monitoring at §63.6625.
§63.8(a)(2)	Performance specifications	Yes.	
§63.8(a)(3)	[Reserved]		
§63.8(a)(4)	Monitoring for control devices	No.	
§63.8(b)(1)	Monitoring	Yes.	
§63.8(b)(2)-(3)	Multiple effluents and multiple monitoring systems	Yes.	
§63.8(c)(1)	Monitoring system operations and maintenance	Yes.	
§63.8(c)(1)(i)	Routine and predictable SSM	Yes.	
§63.8(c)(1)(ii)	SSM not in Startup Shutdown Malfunction Plan	Yes.	
§63.8(c)(1)(iii)	Compliance with operations and maintenance requirements	Yes.	
§63.8(c)(2)-(3)	Monitoring system installation	Yes.	
§63.8(c)(4)	Continuous monitoring system (CMS) requirements	Yes.	Except that Subpart ZZZZ does not require Continuous Opacity Monitoring System (COMS)
§63.8(c)(5)	COMS minimum procedures	No	Subpart ZZZZ does not require COMS
§63.8(c)(6)-(8)	CMS requirements	Yes	Except that Subpart ZZZZ does not require COMS.
§63.8(d)	CMS quality control	Yes.	
§63.8(e)	CMS performance evaluation	Yes	Except for §63.8(e)(5)(ii), which applies to COMS
			Except that §63.8(e) only applies as specified in §63.6645.
§63.8(f)(1)-(5)	Alternative monitoring method	Yes	Except that §63.8(f)(4) only applies as specified in §63.6645.
§63.8(f)(6)	Alternative to relative accuracy test	Yes	Except that §63.8(f)(6) only applies as specified in §63.6645.
§63.8(g)	Data reduction	Yes	Except that provisions for COMS are not applicable. Averaging periods for demonstrating compliance are specified at §§63.6635 and 63.6640.
§63.9(a)	Applicability and State delegation of notification requirements	Yes	
§63.9(b)(1)-(5)	Initial notifications	Yes	Except that §63.9(b)(3) is reserved.
			Except that §63.9(b) only applies as specified in §63.6645.
§63.9(c)	Request for compliance extension	Yes	Except that §63.9(c) only applies as specified in §63.6645.
§63.9(d)	Notification of special compliance requirements for new sources	Yes	Except that §63.9(d) only applies as specified in §63.6645.
§63.9(e)	Notification of performance test	Yes	Except that §63.9(e) only applies as specified in §63.6645.
§63.9(f)	Notification of visible emission(VE)/opacity test	No	Subpart ZZZZ does not contain opacity or VE standards.
§63.9(g)(1)	Notification of performance evaluation	Yes	Except that §63.9(g) only applies as specified in §63.6645.

**ATTACHMENT I (con't)**

General Provisions Citation	Subject of Citation	Applies to Subpart	Explanation
§63.9(g)(2)	Notification of use of COMS data	No	Subpart ZZZZ does not contain opacity or VE standards.
§63.9(g)(3)	Notification that criterion for alternative RATA is exceeded	Yes	If alternative is in use.
			Except that §63.9(h) only applies as specified in §63.6645.
§63.9(h)(1)-(6)	Notification of compliance status	Yes	Except that notifications for sources using a CEMS are due 30 days after completion of performance evaluations. §63.9(h) is reserved.
			Except that §63.9(h) only applies as specified in §63.6645.
§63.9(i)	Adjustment of submittal deadlines	Yes.	
§63.9(j)	Change in previous information	Yes.	
§63.10(a)	Administrative provisions for recordkeeping/reporting	Yes.	
§63.10(b)(1)	Record retention	Yes.	
§63.10(b)(2)(i)-(v)	Records related to SSM	No.	
§63.10(b)(2)(vi)-(xi)	Records	Yes.	
§63.10(b)(2)(xii)	Records when using alternative to RATA	Yes.	For CO standard if using RATA alternative
§63.10(b)(2)(xiv)	Records of supporting documentation	Yes.	
§63.10(b)(3)	Records of applicability determination	Yes.	
§63.10(c)	Additional records for sources using CEMS	Yes.	Except that §63.10(c)(2)-(4) and (9) are reserved.
§63.10(d)(1)	General reporting requirements	Yes.	
§63.10(d)(2)	Report of performance test results	Yes.	
§63.10(d)(3)	Reporting opacity or VE observations	No.	Subpart ZZZZ does not contain opacity or VE standards.
§63.10(d)(4)	Progress reports	Yes.	
§63.10(d)(5)	Startup, shutdown, and malfunction reports	No.	
§63.10(e)(1) and (2)(i)	Additional CMS reports	Yes.	
§63.10(e)(2)(ii)	COMS-related report	No	Subpart ZZZZ does not require COMS.
§63.10(e)(3)	Excess emission and parameter exceedances reports	Yes.	Except that §63.10(e)(3)(i)(C) is reserved.
§63.10(e)(4)	Reporting COMS data	No	Subpart ZZZZ does not require COMS
§63.10(f)	Waiver for recordkeeping/reporting	Yes.	
§63.11	Flares	No.	
§63.12	State authority and delegations	Yes.	
§63.13	Addresses	Yes.	
§63.14	Incorporation by reference	Yes.	
§63.15	Availability of information	Yes.	

**ATTACHMENT J**

Table 7 to Subpart ZZZZ of Part 63—Requirements for Reports

As stated in §63.6650, you must comply with the following requirements

This table only includes the provisions that apply to Lead Belt Materials Co., Inc.

For each...	You must submit a...	The report must contain..	You must submit the report...
Existing none-emergency, non-black start stationary CI RICE>300 hp located at an area source of HAPs	Compliance Report	a. If there are no deviations from any emission limitations or operating limitations, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CMS, including CEMS and COMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were not periods during which the CMS was out-of-control during the reporting period; or	i. Semi-annually according to the requirements in §63.6650(b)(1)(5) for engines that are not limited use stationary RICE subject to numerical emission limitations.
		b. If you had a deviation from any emission limitation or operating limitation during the reporting period, the information in §63.6650(d). If there were periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), the information in §63.6650(e); or	ii. Semi-annually according to the requirements in §63.6650(b).
		c. If you had a malfunction during the reporting period, the information in §63.6650(c)(4).	iii. Semi-annually according to the requirements in §63.6650(b).

**ATTACHMENT K**

Table 1 to Subpart IIII of Part 60

Emission Standards for Stationary Pre-2007 Model Year Engines With a Displacement of <10 Liters per Cylinder and 2007–2010 Model Year Engines >2,237 KW (3,000 HP) and With a Displacement of <10 Liters per Cylinder

[As stated in §§60.4201(b), 60.4202(b), 60.4204(a), and 60.4205(a), you must comply with the following emission standards]

Maximum engine power	Emission standards for stationary pre-2007 model year engines with a displacement of <10 Liters per cylinder and 2007-2010 model year engines <2,237 KW (3,000 HP) and with a displacement of <10 Liters per cylinder in g/KW-hr (g/HP-hr)				
	NMHC + NO <sub>x</sub>	HC	NO <sub>x</sub>	CO	PM
KW<8 (HP<11)	10.5 (7.8)			8.0 (6.0)	1.0 (0.75)
8≤KW<19 (11≤HP<25)	9.5 (7.1)			6.6 (4.9)	0.80 (0.60)
19≤KW<37 (25≤HP<50)	9.5 (7.1)			5.5 (4.1)	0.80 (0.60)
37≤KW<56 (50≤HP<75)			9.2 (6.9)		
56≤KW<75 (75≤HP<100)			9.2 (6.9)		
75≤KW<130 (100≤HP<175)			9.2 (6.9)		
130≤KW<225 (175≤HP<300)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
225≤KW<450 (300≤HP<600)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
450≤KW≤560 (600≤HP≤750)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
KW>560 (HP>750)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)

**ATTACHMENT L**

Table 7 to Subpart IIII of Part 60

Requirements for Performance Tests for Stationary CI ICE With a Displacement of  $\geq 30$  Liters per Cylinder

[As stated in §60.4213, you must comply with the following requirements for performance tests for stationary CI ICE with a displacement of  $\geq 30$  liters per cylinder:]

For each..	Complying with the requirement to..	You must..	Using..	According to the following requirements..
1. Stationary CI internal combustion engine with a displacement of $\geq 30$ liters per cylinder	a. Reduce NO <sub>x</sub> emissions by 90 percent or more	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR Part 60, appendix A	(a) Sampling sites must be located at the inlet and outlet of the control device.
		ii. Measure O <sub>2</sub> at the inlet and outlet of the control device;	(2) Method 3, 3A, or 3B of 40 CFR Part 60, appendix A	(b) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurements for NO <sub>x</sub> concentration.
		iii. If necessary, measure moisture content at the inlet and outlet of the control device; and,	(3) Method 4 of 40 CFR Part 60, appendix A, Method 320 of 40 CFR Part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see §60.17)	(c) Measurements to determine moisture content must be made at the same time as the measurements for NO <sub>x</sub> concentration.
		iv. Measure NO <sub>x</sub> at the inlet and outlet of the control device	(4) Method 7E of 40 CFR Part 60, appendix A, Method 320 of 40 CFR Part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see §60.17)	(d) NO <sub>x</sub> concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	b. Limit the concentration of NO <sub>x</sub> in the stationary CI internal combustion engine exhaust.	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR Part 60, appendix A	(a) If using a control device, the sampling site must be located at the outlet of the control device.
		ii. Determine the O <sub>2</sub> concentration of the stationary internal combustion engine exhaust at the sampling port location; and	(2) Method 3, 3A, or 3B of 40 CFR Part 60, appendix A	(b) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurements for NO <sub>x</sub> concentration.
		iii. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and.	(3) Method 4 of 40 CFR Part 60, appendix A, Method 320 of 40 CFR Part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see §60.17)	(c) Measurements to determine moisture content must be made at the same time as the measurements for NO <sub>x</sub> concentration.
		iv. Measure NO <sub>x</sub> at the exhaust of the stationary internal combustion engine	(4) Method 7E of 40 CFR Part 60, appendix A, Method 320 of 40 CFR Part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see §60.17)	(d) NO <sub>x</sub> concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

**ATTACHMENT L (con't)**

Table 7 to Subpart IIII of Part 60—Requirements for Performance Tests for Stationary CI ICE With a Displacement of  $\geq 30$  Liters per Cylinder (con't)

[As stated in §60.4213, you must comply with the following requirements for performance tests for stationary CI ICE with a displacement of  $\geq 30$  liters per cylinder:]

For each..	Complying with the requirement to..	You must..	Using..	According to the following requirements..
	(c) Reduce PM emissions by 60 percent or more	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR Part 60, appendix A	(a) Sampling sites must be located at the inlet and outlet of the control device.
		ii. Measure O <sub>2</sub> at the inlet and outlet of the control device;	(2) Method 3, 3A, or 3B of 40 CFR Part 60, appendix A	(b) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurements for PM concentration.
		iii. If necessary, measure moisture content at the inlet and outlet of the control device; and,	(3) Method 4 of 40 CFR Part 60, appendix A	(c) Measurements to determine moisture content must be made at the same time as the measurements for PM concentration.
		iv. Measure PM at the inlet and outlet of the control device	(4) Method 5 of 40 CFR Part 60, appendix A	(d) PM concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	(d) Limit the concentration of PM in the stationary CI internal combustion engine exhaust	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR Part 60, appendix A	(a) If using a control device, the sampling site must be located at the outlet of the control device.
		ii. Determine the O <sub>2</sub> concentration of the stationary internal combustion engine exhaust at the sampling port location; and	(2) Method 3, 3A, or 3B of 40 CFR Part 60, appendix A	(b) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurements for PM concentration.
		iii. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and.	(3) Method 4 of 40 CFR Part 60, appendix A	(c) Measurements to determine moisture content must be made at the same time as the measurements for PM concentration.
		iv. Measure NO <sub>x</sub> at the exhaust of the stationary internal combustion engine	(4) Method 5 of 40 CFR Part 60, appendix A	(d) PM concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

**ATTACHMENT M**

Table 8 to Subpart IIII of Part 60

Applicability of General Provisions to Subpart IIII

[As stated in §60.4218, you must comply with the following applicable General Provisions:]

General Provisions citation	Subject of citation	Applies to subpart	Explanation
§60.1	General applicability of the General Provisions	Yes	
§60.2	Definitions	Yes	Additional terms defined in §60.4219.
§60.3	Units and abbreviations	Yes	
§60.4	Address	Yes	
§60.5	Determination of construction or modification	Yes	
§60.6	Review of plans	Yes	
§60.7	Notification and Recordkeeping	Yes	Except that §60.7 only applies as specified in §60.4214(a).
§60.8	Performance tests	Yes	Except that §60.8 only applies to stationary CI ICE with a displacement of $\geq 30$ liters per cylinder and engines that are not certified.
§60.9	Availability of information	Yes	
§60.10	State Authority	Yes	
§60.11	Compliance with standards and maintenance requirements	No	Requirements are specified in subpart IIII.
§60.12	Circumvention	Yes	
§60.13	Monitoring requirements	Yes	Except that §60.13 only applies to stationary CI ICE with a displacement of $\geq 30$ liters per cylinder.
§60.14	Modification	Yes	
§60.15	Reconstruction	Yes	
§60.16	Priority list	Yes	
§60.17	Incorporations by reference	Yes	
§60.18	General control device requirements	No	
§60.19	General notification and reporting requirements	Yes	

**ATTACHMENT N**

Method 9 Opacity 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 \_\_\_\_\_ % opacity.

Was the emission unit in compliance at the time of evaluation? \_\_\_\_\_  
 YES NO Signature of Observer \_\_\_\_\_





**ATTACHMENT Q**

10 CSR 10-6.400 Compliance Demonstration

$$\begin{aligned} \text{Maximum Allowable PM Emissions} &= E \text{ (lb/hr)} = 4.1(P)^{0.67} && \text{if } P \leq 30 \text{ tons/hr} \\ &= E \text{ (lb/hr)} = 55(P)^{0.11} - 40 && \text{if } P > 30 \text{ tons/hr} \end{aligned}$$

P = Process weight rate (tons/hr)

E = Allowable emission rate limit (lb/hr)

Potential PM Emission Rate =

$$\text{MHDR(tons/hr)} * \text{Emission Factor(lb/ton)} * (1 - \text{Control Efficiency}/100)$$

These emission units have low enough potential particulate matter emission rates without control devices that CAM does not apply. Particulate Matter Emissions Factor taken from FIRE.

<b>Emission Unit</b>	<b>Maximum Hourly Design Rate (tons/hr)</b>	<b>PM Emission Factor (lb/ton)</b>	<b>Control Device Efficiency (%)</b>	<b>Potential Particulate Matter Emission Rate (lb/hr)</b>	<b>Allowable Particulate Matter Emission Rate (lb/hr)</b>
EU0210 Drum Dryer	170	0.14	0	23.8	56.8
EU0220 Elevators, Screens, Bins, and Mixer	170	0.14	0	23.8	56.8

## 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 August 15, 2011;
- 2) 2010 Emissions Inventory Questionnaire, received March 10, 2011; and
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition; and
- 4) WebFIRE; and
- 5) Construction Permit 0295-002, issued January 11, 1995; and
- 6) Construction Permit 122002-005, issued November 25, 2002.

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

In the operating permit application, the installation indicated they were not subject to the following regulation(s). However, in the review of the application, the agency has determined that the installation is subject to the following regulation(s) for the reasons stated.

### **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.

None

### **Construction Permit History**

The following construction permits were issued to this installation:

- 1) Construction Permit 0295-002  
This permit authorizes the installation of one Peerless 24" pugmill. This Construction Permit was superseded by Construction Permit 122002-005.
- 2) Construction Permit 122002-005  
This permit authorizes replacement of the primary crusher and grizzly feeder, with allowances for three additional concurrent operations on site, all owned by the site owner. Additionally, this project reclassifies the portable plant as stationary. This Construction Permit was superseded by Construction Permit 082005-023.

3) Construction Permit 082005-023

This permit authorizes the operation of a non-site owner's portable plant concurrent with the multiple plants from the site owner. This permit contains special conditions that were divided into two portions: Scenario 1-multi plant operation with all plants owned by the site owner, and Scenario 2-multi plant operation with non site owner portable plant. Many, but not all, of the special conditions were superseded by Construction Permit 042009-008. Those that were not superseded are: Scenario 1: Special Condition # 6 which requires the use of a wet scrubber on the drum dryer and hot elevators, Special Condition # 7 which requires moisture content testing for inherent moisture control, Special Condition # 8 which requires moisture content testing of the stockpiles, Special Condition # 9 which requires performance testing to demonstrate compliance with 40 CFR Part 60 Subparts OOO and I, and Special Condition # 10 which requires the permittee to amend their Operating Permit, Special Condition # 13 supersedes previous permits, and Special Condition # 14 which prohibits the use of contaminated nonmetallic minerals. For Scenario 2: Special Condition # 6, 7, 8, and 9, which contain the same requirements as in Scenario 1, and Special Condition # 12, which requires the permittee to amend their operating permit, and Special Condition # 13 and 14, which are the same as in Scenario 1.

4) Construction Permit 042009-008

This permit authorizes the addition of new equipment and accounts for some equipment that was not accounted for in previous permits.

**New Source Performance Standards (NSPS) Applicability**

40 CFR Part 60 Subpart I, *Standards of Performance for Hot Mix Asphalt Facilities* is not applicable because all the equipment that falls under this subpart was installed prior to the regulatory date of June 11, 1973.

40 CFR Part 60 Subparts K, Ka, and Kb, *Standards of Performance for Storage Vessels for Petroleum Liquids* is not applicable. Only one tank at this installation is large enough to be subject to this standard, at 25,000 gallons, but it is used to store asphalt, which falls below the true vapor threshold of 15 kPa, making it exempt from the regulation.

40 CFR Part 60 Subpart LL, *Standards of Performance for Metallic Mineral Processing Plants* is not applicable because the facility does not process metallic minerals.

40 CFR Part 60 Subpart UU, *Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture* is not applicable because the subpart only applies to asphalt roofing plants (plants which produce asphalt roofing products, asphalt processing plants (plants which blow asphalt for use in the manufacture of asphalt products, and petroleum refineries.

40 CFR Part 60 Subpart OOO, *Standards of Performance for Nonmetallic Mineral Processing* is applicable and has been incorporated into this operating permit.

40 CFR Part 60 Subpart IIII, *Stationary Compression Ignition Internal Combustion Engines* is applicable and has been incorporated into this operating permit.

### **Maximum Achievable Control Technology (MACT) Applicability**

40 CFR Part 63 Subpart ZZZZ, *National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines* applies to the compression-ignitions engines.

### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

None

### **Other Regulatory Determinations**

In the previous operating permit 10 CSR 10-6.260 *Restriction of Emission of Sulfur Compounds* was applied to the Drum Dryer and Elevators, Screens, Bins, and Mixers. The Drum Dryer runs on pipeline grade natural gas and is exempt from this rule. The Elevators, Screens, Bins, and Mixers are not sulfur emission sources. This rule does apply to the diesel engines.

10 CSR 10-6.405, *Restriction of Particulate Matter Emissions From Fuel Burning Equipment Used for Indirect Heating*.

The asphalt heater is exempt from this regulation per 6.405(1)(E). The unit meets this exemption by burning natural gas or propane.

### **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:

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Nicole Weidenbenner, P.E.  
Environmental Engineer

CERTIFIED MAIL: 70093410000193530364  
RETURN RECEIPT REQUESTED

Mr. Josh Baker  
Lead Belt Materials Co., Inc.  
P.O. Box 607  
Park Hills, MO 63601

Re: Lead Belt Materials Co., Inc., 187-0001  
Permit Number: **OP2012-007**

Dear Mr. Baker:

Enclosed with this letter is your intermediate operating permit. Please review this document carefully. Operation of your installation in accordance with the rules and regulations cited in this document is necessary for continued compliance. It is very important that you read and understand the requirements contained in your permit.

You may appeal this permit to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.078.16 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within thirty (30) days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If you send your appeal by registered or certified mail, we will deem it filed on the date you mailed it. If you send your appeal by a method other than registered or certified mail, we will deem it filed on the date the AHC receives it.

If you have any questions or need additional information regarding this permit, please do not hesitate to contact Nicole Weidenbenner, P.E., at the Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102, or by telephone at (573) 751-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Michael J. Stansfield, P.E.  
Operating Permit Unit Chief

MJS/nwk

Enclosures

c: Southeast Regional Office  
PAMS File: 2011-08-038