



INTERMEDIATE STATE PERMIT TO OPERATE

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

Intermediate Operating Permit Number: OP2010-072
Expiration Date: JUL 05 2015
Installation ID: 035-0004
Project Number: 2009-03-063

Installation Name and Address

Royal Oak Enterprises, LLC-Ellsinore Plant
Highway 60
Ellsinore, MO 63937
Carter County

Parent Company's Name and Address

Royal Oak Enterprises, LLC
P.O. Box 549
Salem, MO 65560

Installation Description:

Royal Oak-Ellsinore manufactures charcoal using Missouri-type batch kilns. There are four distinct operation lines at the plant: the charcoal kilns system, the lump charcoal screening and bagging operation, the lump charcoal plant, and the brix plant. The installation has accepted a voluntary limit on PM₁₀ emissions to qualify for this Intermediate Operating Permit.

JUL - 6 2010

Effective Date

Director or Designee
Department of Natural Resources

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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

Royal Oak-Ellsinore manufactures charcoal using Missouri-type batch kilns. There are four distinct operation lines at the plant: the charcoal kilns system, the lump charcoal screening and bagging operation, the lump charcoal plant, and the brix plant. The installation has accepted a voluntary limit on PM₁₀ emissions to qualify for this Intermediate Operating Permit.

Prior to 2008, the charcoal kilns system had a separate plant number from the other operations. During the technical review of Construction Permit 102008-003, it was determined that all operations at this site should be considered as one installation and site 035-0021 was retired.

Starting with 2008 emissions data, all reporting has been submitted under site 035-0004. The last five years of emissions is presented below:

For Site 035-0004

Reported Air Pollutant Emissions, tons per year							
Year	Particulate Matter ≤ Ten Microns (PM-10)	Sulfur Oxides (SO _x)	Nitrogen Oxides (NO _x)	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Lead (Pb)	Hazardous Air Pollutants (HAPs)
2008	18.04	0	64.17	1.99	13.5	0	0
2007	13.5	0	69.43	3.55	24.62	0	0
2006	14.74	0	71.13	1.44	9.42	0	0
2005	250.83	0	62.44	574.00	1148.27	0	22.43
2004	725.08	0	59.68	1711.82	3423.54	0	0

For Site #035-0021

Reported Air Pollutant Emissions, tons per year							
Year	Particulate Matter ≤ Ten Microns (PM-10)	Sulfur Oxides (SO _x)	Nitrogen Oxides (NO _x)	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Lead (Pb)	Hazardous Air Pollutants (HAPs)
2006	8.51	0	0.06	0.01	0.01	0	0
2005	8.56	0	0.02	0	0	0	0
2004	11.80	0	0.03	0	0.01	0	0

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

Charcoal Kilns Systems			
Emission Unit#	Emission Point#	Unit Description	Control Devices
EU002K	EP-02K	Unload kilns/Load trucks	none
EU005K	EP-05K	Haul road for wood slabs	none
EU006K	EP-06K	Haul road for charcoal	none
EU008K	EP-08K	Charcoal Kilns #1A-8A	Thermal Oxidizer (AB-1)
EU009K	EP-09K	Charcoal Kilns #9A-16A	Thermal Oxidizer (AB-2)
EU012K	EP-12K	Charcoal Kilns #17A-24A	Thermal Oxidizer (AB-3)
EU013K	EP-13K	Charcoal Kilns #24A-32A	Thermal Oxidizer (AB-4)

Lump Charcoal Screening and Bagging Operation, Constructed 2008			
Emission Unit#	Emission Point#	Unit Description	Control Devices
EU022	EP-22	Raw Charcoal Hauling	none
EU023	EP-23	Charcoal Storage Pile	none
EU024/26	EP-24/26	Hopper Loading/Unloading; Mfr: Camcorp	Baghouse (E-1)
EU025/27	EP-25-27	Hopper Loading/Unloading; Mfr: Camcorp	Baghouse (E-1)
EU028	EP-28	Conveyor; Mfr: L&R Industries	Baghouse (E-1)
EU029	EP-29	Conveyor; Mfr: L&R Industries	Baghouse (E-1)
EU030	EP-30	Conveyor; Mfr: L&R Industries	Baghouse (E-1)
EU031	EP-31	Conveyor; Mfr: L&R Industries	Baghouse (E-1)
EU032	EP-32	Disc Screen; Mfr: L&R Industries	Baghouse (W-1)
EU033	EP-33	Disc Screen; Mfr: L&R Industries	Baghouse (W-1)
EU034	EP-34	Fines Discharge Conveyor; Mfr: L&R Industries	Baghouse (W-1)
EU035	EP-35	Fines Discharge Conveyor; Mfr: L&R Industries	Baghouse (W-1)
EU036	EP-36	Lump Discharge Conveyor; Mfr: L&R Industries	Baghouse (W-1)
EU037	EP-37	Lump Discharge Conveyor; Mfr: L&R Industries	Baghouse (W-1)
EU038	EP-38	Lump Bagging; Mfr: WW Fabricating	Baghouse (W-1)
EU039	EP-39	Lump Bagging; Mfr: WW Fabricating	Baghouse (W-1)
EU040	EP-40	Fines Storage Pile	none
EU041	EP-41	Fines Truck Loading	none
EU042	EP-42	Product Handling Haul Road	none

Lump charcoal plant			
Emission Unit#	Emission Point#	Unit Description	Control Devices
EU002	EP-02	Feed Hopper	partial enclosure
EU002B	EP-02	Conveyor #1	partial enclosure
EU003	EP-03	Screening	partial enclosure
EU004	EP-04	Conveyor #4 Lump charcoal	partial enclosure
EU004A	EP-04	Conveyor	partial enclosure
EU004B	EP-04	Conveyor #2 Lump	partial enclosure
EU004C	EP-04	Conveyor #3 Lump	partial enclosure
EU004D	EP-04	Lump bin	partial enclosure
EU004E	EP-04	Conveyor	partial enclosure
EU004F	EP-04	Conveyor	partial enclosure
EU004G	EP-04	Conveyor #5	partial enclosure
EU005	EP-05	Bagging of lump charcoal	Baghouse (S-1)
EU008	EP-08	Boiler, Mfr: Scotch Marine; 2.4 MMBTU/hr, propane fired	none

Brix Plant			
Emission Unit#	Emission Point#	Unit Description	Control Devices
EU010A	EP-10	Storage-Coal	partial enclosure
EU010B	EP-10	Storage-Charcoal	partial enclosure
EU010C	EP-10	Storage-Sawdust	partial enclosure
EU010D	EP-10	Storage-Lime	partial enclosure
EU011	EP-11	Feed Hoppers (4)	baghouse (S-2)
EU012	EP-12	Belt Conveyor	baghouse (S-2)
EU013	EP-13	Hammermill/Screen	baghouse (S-2)
EU014	EP-14	Bucket Elevator	baghouse (S-2)
EU015	EP-15	Dry Raw Material Holding Tank	baghouse (S-2)
EU016	EP-16	Belt Conveyor	baghouse (S-2)
EU017	EP-17	Nitrile Surge Hopper	baghouse (S-2)
EU018	EP-18	Mixer	baghouse (S-2)
EU018A	EP-18	Extruder	baghouse (S-2)
EU019	EP-19	Conveyor	baghouse (S-2)
EU020	EP-20	Dryer/Cooler; propane fired	none
EU021	EP-21	Boiler; Mfr: Hurst Scotch, Model 3: Series 300; 2.1 MMBTU/hr; Constructed 1998	none

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

Lump charcoal plant		
Emission Point#	Unit Description	Control Devices
EP-01	Raw Charcoal Storage	none
EP-04	Waxing process	none
EP-06	Transfer fines to truck	none
EP-06	Conveyor #6 fines	none
EP-06	Transfer fines to truck	none
EP-06	Product Haul road	none
EP-07	Haul Road-Charcoal product	none
EP 6 & 7	Diesel Storage Tank	none
EP 8 & 9	Gasoline Storage Tank	none

Brix Plant		
Emission Point#	Unit Description	Control Devices
EP-09	Unpaved haul road	none
none	Wax station	none
none	wax tank	none
none	shrink wrap	none
none	casing	none

DOCUMENTS INCORPORATED BY REFERENCE

This permit incorporates the following documents by reference:

1. Construction Permit 062003-004
2. Construction Permit 102003-009
3. Construction Permit 102008-003

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.

<p style="text-align: center;">PERMIT CONDITION PW001</p>
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<p style="text-align: center;">10 CSR 10-6.065(2)(C) and 10 CSR 10-6.065(5)(A) Voluntary Limitation(s)</p>

Emission Limitation:

The permittee shall emit less than 100 tons of particulate matter less than ten microns in diameter (PM₁₀) in any consecutive twelve-month period.

Monitoring:

The permittee shall monitor the PM₁₀ emissions.

Recordkeeping:

1. The permittee shall maintain an accurate record of the PM₁₀ emissions. Attachment A, or an equivalent shall be used to demonstrate compliance with the emission limit.
2. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
3. All records shall be maintained for five 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 ten days after any exceedance of any limitation established by this permit condition.

III. Emission Unit Specific Emission Limitations

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

Charcoal Kiln Systems	
Emission Unit	Description
EU002K	Unload kilns/Loading trucks
EU005K	Haul road for wood slabs
EU006K	Haul road for charcoal
EU008K	Charcoal Kilns #1A-8A, controlled by Thermal Oxidizer (AB-1), using propane as fuel
EU009K	Charcoal Kilns #9A-16A, controlled by Thermal Oxidizer (AB-2), using propane as fuel
EU012K	Charcoal Kilns #17A-24A, controlled by Thermal Oxidizer (AB-3), using propane as fuel
EU013K	Charcoal Kilns #24A-32A, controlled by Thermal Oxidizer (AB-4), using propane as fuel

Permit Condition (EU002K, EU005K, EU006K, EU008K, and EU009K)-001
10 CSR 10-6.060 Construction Permits Required
Construction Permit 062003-004, Issued June 3, 2003

Emission Limitations:

1. The permittee shall discharge into the atmosphere from EU008K and EU009K less than 40 tons of NO_x in any consecutive 12-month period. [Modified Special Condition 1A.]
2. The permittee shall emit less than 15 tons of PM₁₀ in any consecutive 12-month period from the EU008K, EU009K, EU002K, EU005K and EU006K combined. [Modified Special Condition 2A.]

Monitoring/Record Keeping:

1. The permittee shall maintain an accurate record of NO_x emitted from EU008K and EU009K. Attachment B or an equivalent form shall be used for this purpose. [Modified Special Condition 1B.]
2. The permittee shall maintain an accurate record of PM₁₀ emitted into the atmosphere from the emission points listed above. Attachment C or an equivalent form shall be used for this purpose. [Modified Special Condition 2B.]
3. The permittee shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. [Modified Special Conditions 1B. and 2B]

Reporting:

The permittee shall report to the Air Pollution Control Program's (APCP) Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (10) days after the end of the month during which the records required above indicate that the source exceeds the emission limitations. [Modified Special Conditions 1C. and 2C]

Permit Condition (EU002K, EU005K, EU006K)-002 and (EU0012K, and EU0013K)-001

**10 CSR 10-6.060 Construction Permits Required
Construction Permit #102003-009, Issued October 16, 2003**

Emission Limitations:

1. The permittee shall discharge into the atmosphere from EU0012K and EU0013K less than 40 tons of NO_x in any consecutive 12-month period. [Modified Special Condition 1A]
2. The permittee shall emit less than 15 tons of PM₁₀ in any consecutive 12 month period from EU002K, EU005K, EU006K, EU012K and EU013K combined.[Modified Special Condition 2A.]

Monitoring/Record Keeping:

1. The permittee shall maintain an accurate record of NO_x emitted from EU0012K and EU0013K. Attachment D or an equivalent form shall be used for this purpose. [Modified Special Condition 1B.]
2. The permittee shall maintain an accurate record of PM₁₀ emitted into the atmosphere from the emission points listed above. Attachment E or an equivalent form shall be used for this purpose. [Modified Special Condition 2B.]
3. The permittee shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. [Modified Special Conditions 1B. and 2B]

Reporting:

The permittee shall report to the Air Pollution Control Program's (APCP) Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (10) days after the end of the month during which the records required above indicate that the source exceeds the emission limitations. [Modified Special Conditions 1C. and 2C]

Permit Condition (EU008K through EU0013K)-002

10 CSR 10-6.330(3)(B), (3)(C), and (4)

Restriction of Emissions From Batch-Type Charcoal Kilns – Operating Requirements, and Reporting and Recordkeeping

Emission Limitation:

1. No charcoal kiln shall be operated without an emission control device installed and operated to meet the requirements of this rule and other applicable state and federal rules.
2. Each emission control device shall have a sight glass installed in the burning chamber such that the burn can be visually monitored.
3. All charcoal kiln emissions shall be ducted to an operating emission control device throughout the entire burn cycle.

4. Emission control devices shall be equipped with automatic temperature control systems which are set such that gas streams are heated and maintained at a nominal operating temperature of 1600 degrees Fahrenheit (1600°F), with a 1520 degree Fahrenheit (1520°F) minimum temperature allowed, for a minimum residence time of 1.7 seconds
5. All charcoal kiln control systems shall be operated using the same fuel(s) as used during performance testing.
6. No charcoal kiln shall burn treated wood at any time.
7. All charcoal kiln control systems that have been performance tested shall continuously display and record the emission control device operating temperature with the permanently installed temperature recording device at all times of operation.
8. Each charcoal kiln shall have a unique identification number permanently affixed to the exterior of the charcoal kiln structure.

Monitoring:

1. The installation shall monitor the emission control device temperature with the continuous recording device.
2. The installation shall monitor the start-up time(s), cool-down time(s), re-light time(s) for the charcoal kiln control system.
3. The installation shall monitor the fuel type and usage.

Record Keeping:

1. The installation shall maintain a file on each active charcoal kiln with the following information for a minimum of five years from the date the data is collected:
 - a) Average annual production (tons of charcoal per charcoal manufacturing installation per year divided by the number of charcoal kilns at the charcoal manufacturing installation);
 - b) Start-up time (hour and minute) for each burn cycle;
 - c) Emission control device temperature (in degrees Fahrenheit) throughout each burn cycle at a point in the emission control device where gas residence time is no less than 1.7 seconds;
 - d) The emission control device temperature shall be continuously displayed and recorded by a continuous recording device;
 - e) A daily log for each charcoal kiln control system that includes start-up time(s), cool-down time(s), re-light time(s) and inspections performed (e.g. burn chamber); (Attachment F)
 - f) A monthly log for each charcoal kiln control system that includes fuel usage and where more than one type of fuel is used, fuel types and times of usage; (Attachment G)
 - g) A malfunction log that includes a description of each malfunction cause, duration and actions taken to remedy the malfunction; and (Attachment H)
2. All information shall be made immediately available to Missouri Department of Natural Resources representatives upon request.

Reporting:

If the active status of any charcoal kiln changes, including the construction of new charcoal kilns, the permittee shall provide an update list to the Department no later than 30 days after the status change.

Permit Condition (EU008K through EU0013K)-003

10 CSR 10-6.330(3)(A)1. and (3)(A)3.

Restriction of Emissions from Batch-Type Charcoal Kilns – Opacity and Fugitive Emissions

Emission Limitation:

1. No charcoal kiln control system shall emit visible emissions greater than 10% opacity.
2. Charcoal kiln control systems shall be maintained to assure that no visible fugitive emissions result from equipment cracks or door seals.
3. Fugitive dust from all other installation operations shall comply with the requirements of 10 CSR 10-6.170, Restriction of Emission of Particulate Matter to the Ambient Air Beyond the Premises of Origin. This regulation is detailed in the Core Permit Requirements section of this Operating Permit.

Monitoring:

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

Record Keeping:

1. The permittee shall maintain records of all observation results (see Attachment I), noting:
 - a) Whether any air emissions (except for water vapor) were visible from the emission units,
 - b) All emission units from which visible emissions occurred, and
 - c) Whether the visible emissions were normal for the process.
2. The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment J)
3. The permittee shall maintain records of any equipment malfunctions. (see Attachment K)
4. The permittee shall document the following readings on Attachment L, or its equivalent:
 - a) Whether air emissions (except water vapor) remain visible in the ambient air beyond the property line of origin.
 - b) Whether the visible emissions were normal for the installation.
 - c) Whether equipment malfunctions contributed to an exceedance.
 - d) Any violations and any corrective actions undertaken to correct the violation.

5. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.

Reporting:

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of the opacity limit established by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation. 10 CSR 10-6.330(3)(A)2.A.

Permit Condition (EU008K through EU0013K)-004

10 CSR 10-6.330(3)(B)(8) and (3)(D)

Restriction of Emissions From Batch-Type Charcoal Kilns – Operating Procedures Manual

Emission Limitation:

All charcoal kiln control systems shall be operated and maintained in accordance with the Department approved standard operating procedures manual.

Monitoring/Record Keeping/Reporting:

The permittee shall develop, submit for Department approval and establish a standard operating procedures manual for each charcoal manufacturing installation. At a minimum, this manual shall describe:

1. Safe charcoal kiln operation
2. Bundle stacking (including adequate platform of logs to enhance combustion);
3. Use of properly seasoned wood (cover mixing of wood species, if applicable);
4. Control of fugitive emissions from each charcoal kiln (e.g. "mudding" cracks and doors) and each emission control device; and
5. Methods of reporting and recordkeeping required by Section (4) of this rule.

Permit Condition (EU008K through EU0013K)-005

10 CSR 10-6.330(3)(B)(8) and (3)(E)

Restriction of Emissions From Batch-Type Charcoal Kilns – Maintenance Practices Manual

Emission Limitation:

All charcoal kiln control systems shall be operated and maintained in accordance with the Department approved maintenance practices manual.

Monitoring/Record Keeping/Reporting:

The permittee shall develop, submit for Department approval and establish a maintenance practices manual for each charcoal kiln control system. This manual shall be maintained at each site for the specific emission control device(s) installed at the site. At a minimum, this manual shall include:

1. Maintenance of all equipment (e.g. proper cleaning of inlet ports);
2. Measures taken in the event of emission control device failure to minimize emissions (e.g. opening kiln caps and air vents to allow kiln wood to burn down to minimize smoking conditions or shutting all kiln inlets and outlets until all combustion in the chamber is extinguished);
3. Inspections performed and frequency (e.g. daily burner operation); and
4. Methods of reporting and recordkeeping required by Section (4) of this rule.

Permit Condition (EU008K through EU0013K)-006
10 CSR 10-6.330(3)(A)2.A.
Restriction of Emissions from Batch-Type Charcoal Kilns – Emissions Limitations

Emission Limitation:

1. No charcoal kiln control system shall emit more than 1.5 pounds per hour of particulate matter.
2. No charcoal kiln control system shall emit more than either 0.24 lbs./hr volatile organic compounds (VOC) or the emission rate equivalent to 99% VOC control efficiency, whichever results in a lower emission rate.
3. No charcoal kiln control system shall emit more than 1.75 lbs./hr of carbon monoxide (CO).

Monitoring/Record Keeping/Reporting:

The permittee shall keep performance test results for all emission control devices tested.

Lump Charcoal Screening and Bagging Operation, Constructed 2008		
Emission Unit	Description	Control Device
EU022	Raw Charcoal Hauling	none
EU023	Charcoal Storage Pile	none
EU024/26	Hopper Loading/Unloading; Mfr: Camcorp	Baghouse (E-1)
EU025/27	Hopper Loading/Unloading; Mfr: Camcorp	
EU028	Conveyor; Mfr: L&R Industries	
EU029	Conveyor; Mfr: L&R Industries	
EU030	Conveyor; Mfr: L&R Industries	
EU031	Conveyor; Mfr: L&R Industries	
EU032	Disc Screen; Mfr: L&R Industries	Baghouse (W-1)
EU033	Disc Screen; Mfr: L&R Industries	
EU034	Fines Discharge Conveyor; Mfr: L&R Industries	
EU035	Fines Discharge Conveyor; Mfr: L&R Industries	
EU036	Lump Discharge Conveyor; Mfr: L&R Industries	
EU037	Lump Discharge Conveyor; Mfr: L&R Industries	
EU038	Lump Bagging; Mfr: WW Fabricating	
EU039	Lump Bagging; Mfr: WW Fabricating	
EU040	Fines Storage Pile	none
EU041	Fines Truck Loading	none
EU042	Product Handling Haul Road	none

Permit Condition (EU022 through EU042)-001

10 CSR 10-6.060 Construction Permits Required

Construction Permit #102008-003, Issued October 16, 2008

Emission Limitations:

1. The permittee shall emit less than 15.0 tons of particulate matter less than ten (10) microns in diameter (PM₁₀) in any consecutive 12 month period from the lump charcoal screening and bagging operation. [Special Condition 1A.]
2. The permittee shall water the product haul road whenever conditions exist which would cause visible fugitive emissions to enter the ambient air beyond the property boundary. [Special Condition 2A]
3. The permittee shall pave the raw charcoal haul road and the raw charcoal vehicular activity area with material such as asphalt, concrete and/or other materials approved by the Air Pollution Control Program as specified in the permit application. Maintenance and/or repair of the road surface shall 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. The operators shall periodically water, wash or otherwise clean all of the paved portions of the haul road and vehicular activity area to achieve control of fugitive emissions while the plant is operating. [Special Condition 2B.]
4. The permittee shall control emissions from the equipment/activities listed in Table 1 using baghouses as specified in the permit application. [Special Condition 3A.]

Table 1: Equipment/Activities to be controlled by baghouses

EP-24	Hopper Loading
EP-25	Hopper Loading
EP-26	Hopper Discharge
EP-27	Hopper Discharge
EP-28	Conveyor
EP-29	Conveyor
EP-30	Conveyor
EP-31	Conveyor
EP-32	Disc Screen
EP-33	Disc Screen
EP-34	Fines Discharge Conveyor
EP-35	Fines Discharge Conveyor
EP-36	Lump Discharge Conveyor
EP-37	Lump Discharge Conveyor
EP-38	Lump Bagging
EP-39	Lump Bagging

Monitoring/Record Keeping:

1. The permittee shall maintain an accurate record of PM₁₀ emitted into the atmosphere from the lump charcoal screening and bagging operation. Attachment M, or equivalent form(s), shall be used for this purpose. [Special Condition 1B.]
2. The baghouses shall be operated and maintained in accordance with the manufacturer's specifications. The baghouse shall be equipped with a gauge or meter, which shall indicate the pressure drop across the control device. These gauges or meters shall be located such that the Department of Natural Resources' employees may easily observe them. Replacement filters for the baghouses shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance) [Special Condition 3A.]

3. The permittee shall monitor and record the operating pressure drop across the baghouses at least once every 24 hours while the equipment is in operation. (Attachment N) The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.
4. The permittee shall maintain an operating and maintenance log for the baghouses which shall include the following: [Special Condition 3B]
 - a) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
 - b) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.
5. The permittee shall maintain all records required by this permit condition for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the end of the month during which the records indicate that the source exceeds the emissions limitations.

Permit Condition (EU022 through EU042)-002

10 CSR 10-6.220

Restriction of Emissions of Visible Air Contaminants

Emission Limitation:

1. 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%.
2. 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%.

Monitoring:

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

- If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

Record Keeping:

- The permittee shall maintain records of all observation results (see Attachment I), noting:
 - Whether any air emissions (except for water vapor) were visible from the emission units,
 - All emission units from which visible emissions occurred, and
 - Whether the visible emissions were normal for the process.
- The permittee shall maintain records of any equipment malfunctions. (see Attachment K)
- The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment J)
- These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.
- These records shall be made available immediately for inspection to Department of Natural Resources' personnel upon request.
- All records shall be maintained for five 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 ten days after the permittee determined using the Method 9 test that the emission unit(s) exceeded the opacity limit.
- Reports of any deviations from monitoring, record keeping and reporting requirements of this permit condition shall be submitted semiannually, in the semi-annual monitoring report and annual compliance certification, as required by Section IV of this permit.

Lump charcoal plant		
Emission Unit	Description	Control Device
EU002	Feed Hopper	partial enclosure
EU002B	Conveyor #1	
EU003	Screening	
EU004	Conveyor #4 Lump charcoal	
EU004A	Conveyor	
EU004B	Conveyor #2 Lump	
EU004C	Conveyor #3 Lump	
EU004D	Lump bin	
EU004E	Conveyor	
EU004F	Conveyor	
EU004G	Conveyor #5	
EU005	Bagging of lump charcoal	Baghouse (S-1)
EU008	Boiler, Mfr: Scotch Marine; 2.4 MMBTU/hr, propane fired	none

Permit Condition (EU002 through EU008)-001

10 CSR 10-6.220

Restriction of Emissions of Visible Air Contaminants

Emission Limitation:

- 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%.

2. 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%.

Monitoring:

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

Record Keeping:

1. The permittee shall maintain records of all observation results (see Attachment I), noting:
 - a) Whether any air emissions (except for water vapor) were visible from the emission units,
 - b) All emission units from which visible emissions occurred, and
 - c) Whether the visible emissions were normal for the process.
2. The permittee shall maintain records of any equipment malfunctions. (see Attachment K)
3. The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment J)
4. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.
5. These records shall be made available immediately for inspection to Department of Natural Resources' personnel upon request.
6. All records shall be maintained for five years.

Reporting:

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

Brix Plant		
Emission Unit	Description	Control Device
EU010A	Storage-Coal	partial enclosure
EU010B	Storage-Charcoal	
EU010C	Storage-Sawdust	
EU010D	Storage-Lime	
EU011	Feed Hoppers (4)	baghouse (S-2)
EU012	Belt Conveyor	
EU013	Hammermill/Screen	
EU014	Bucket Elevator	
EU015	Dry Raw Material Holding Tank	
EU016	Belt Conveyor	
EU017	Nitrile Surge Hopper	
EU018	Mixer	
EU018A	Extruder	
EU019	Conveyor	
EU020	Dryer/Cooler; propane fired	none
EU021	Boiler; Mfr: Hurst Scotch, Model 3: Series 300; 2.1 MMBTU/hr; Constructed 1998	none

Permit Condition (EU010A through EU021)-001

10 CSR 10-6.220

Restriction of Emissions of Visible Air Contaminants

Emission Limitation:

1. 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%.
2. 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%.

Monitoring:

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

3. If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

Record Keeping:

1. The permittee shall maintain records of all observation results (see Attachment I), noting:
 - a) Whether any air emissions (except for water vapor) were visible from the emission units,
 - b) All emission units from which visible emissions occurred, and
 - c) Whether the visible emissions were normal for the process.
2. The permittee shall maintain records of any equipment malfunctions. (see Attachment K)
3. The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment J)
4. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.
5. These records shall be made available immediately for inspection to Department of Natural Resources' personnel upon request.
6. All records shall be maintained for five years.

Reporting:

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

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:
 1. 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;
 2. 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;
 3. 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
 4. St. Louis metropolitan area. The open burning of household refuse is prohibited;
 - (B) Yard waste, with the following exceptions:
 1. Kansas City metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation shall require an open burning permit;
 2. 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;
 3. 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:
 - A. 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;
 - B. 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;
 - C. The burning shall take place only between the daytime hours of 10:00 a.m. and 3:30 p.m.; and
 - D. 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

4. 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) Royal Oak Enterprises, LLC-Ellsinore Plant 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 Royal Oak Enterprises, LLC-Ellsinore Plant fails to comply with the provisions or any condition of the open burning permit.
 - (A) In a nonattainment area, as defined in 10 CSR 10-6.020, paragraph (2)(N)5., the Director shall not issue a permit under this section unless the owner or operator can demonstrate to the satisfaction of the Director that the emissions from the open burning of the specified material would be less than the emissions from any other waste management or disposal method.
- (5) Reporting and Record Keeping. New Source Performance Standard (NSPS) 40 CFR Part 60 Subpart CCCC establishes certain requirements for air curtain destructors or incinerators that burn wood trade waste. These requirements are established in 40 CFR 60.2245-60.2260. The provisions of 40 CFR Part 60 Subpart CCCC promulgated as of September 22, 2005 shall apply and are hereby incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401. To comply with NSPS 40 CFR 60.2245-60.2260, sources must conduct an annual Method 9 test. A copy of the annual Method 9 test results shall be submitted to the Director.
- (6) Test Methods. The visible emissions from air pollution sources shall be evaluated as specified by 40 CFR Part 60, Appendix A–Test Methods, Method 9–Visual Determination of the Opacity of Emissions from Stationary Sources. The provisions of 40 CFR Part 60, Appendix A, Method 9 promulgated as of December 23, 1971 is incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401.

10 CSR 10-6.050 Start-up, Shutdown and Malfunction Conditions
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- 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) 1) The permittee shall complete and submit an Emission Inventory Questionnaire (EIQ) in accordance with the requirements outlined in this rule.
- 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 pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079.
- 5) The fees shall be payable to the Department of Natural Resources and shall be accompanied by the Emissions Inventory Questionnaire (EIQ) form or equivalent approved by the Director.
- 6) The permittee shall complete required reports on state supplied EIQ forms or in a form satisfactory to the Director and the reports shall be submitted to the Director by June 1 after the end of each reporting period.
- 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 10-3.090 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 record keeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
 - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
 - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- 3) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, Production and Consumption Controls.
- 4) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.
- 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 Record Keeping and Reporting Requirements

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

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

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

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

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

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

- 1) The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
- 2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit
- 3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- 4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.
- 5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the Air Pollution Control Program copies of records required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted under this rule.
- 6) Failure to comply with the limitations and conditions that qualify the installation for an Intermediate permit make the installation subject to the provisions of 10 CSR 10-6.065(6) and enforcement action for operating without a valid part 70 operating permit.

10 CSR 10-6.065(5)(C)1.C Reasonably Anticipated Operating Scenarios

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 semiannually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
 - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
 - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.
- 4) The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and exceedances must be included in the compliance certifications. The compliance certification shall include the following:
 - a) The identification of each term or condition of the permit that is the basis of the certification;
 - b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;
 - c) Whether compliance was continuous or intermittent;
 - d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period; and
 - e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

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

- 1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7.A shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emissions

limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:

- a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
 - b) That the installation was being operated properly,
 - c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
 - d) That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
- 2) Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

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

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

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

The application utilized in the preparation of this permit was signed by Jim Hayes. 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

Plant wide PM₁₀ Compliance Worksheet

This recordkeeping sheet may be used to demonstrate compliance with Plant Wide Permit Condition PW001.

This sheet covers the period from _____ to _____.
 (month, year) (month, year)

Month	Processing System	Total Monthly emissions from each system	Plant Wide Monthly Emissions (tons PM ₁₀)	Plant Wide 12-Month Total Emissions (tons PM ₁₀)
Example	Kiln Systems	Sum total of Attachments C and E		
	Lump Screening & Bagging	Total from Attachment M		
	Lump Charcoal	Monthly total		
	Brix	Monthly total		
	Kiln Systems			
	Lump Screening & Bagging			
	Lump Charcoal			
	Brix			
	Kiln Systems			
	Lump Screening & Bagging			
	Lump Charcoal			
	Brix			
	Kiln Systems			
	Lump Screening & Bagging			
	Lump Charcoal			
	Brix			
	Kiln Systems			
	Lump Screening & Bagging			
	Lump Charcoal			
	Brix			

A total of less than 100 tons is necessary for compliance.

Attachment C

PM₁₀ Compliance Worksheet

This recordkeeping sheet may be used to demonstrate compliance with Permit Condition EU002K, EU005K, EU006K, EU008K, and EU009K)-001.

This sheet covers the period from _____ to _____.
 (month, year) (month, year)
 Copy as needed.

Column A	Column B	Column C	Column D	Column E
Month	Amount of Charcoal Produced (tons) (Note 1)	PM ₁₀ Emission Factor (lbs/Ton) (Note 2)	Monthly PM ₁₀ Emissions (Tons) (Note 3)	12-Month PM ₁₀ Emissions (Tons/Year) (Note 4)
Example Month	1,210	0.9578	0.5795	13.2
		0.8998	0.5444	

Note 1: Total amount of charcoal produced in kilns #49-64 during this month.
 Note 2: The Composite PM₁₀ emission factor for charcoal storage and haul roads is equal to **0.9578 lbs PM₁₀/ton** of charcoal produced in kilns #49-64. The PM₁₀ emission factor from the kilns #49-64 and associated control systems is equal to **0.0695 lbs PM₁₀/ton** of charcoal produced, and is based on the stack testing performed June 2005.
 Note 3: Multiply each emission factor by the amount of charcoal produced: Column B x Column C x 0.0005. Add the two emissions together in the second sub-column in Column D.
 Note 4: Sum of last 12-months of Column D. 12-Month Total PM₁₀ emissions less than 15 tons for Column E indicates compliance.

Attachment E

PM₁₀ Compliance Worksheet

This recordkeeping sheet may be used to demonstrate compliance with Permit Condition (EU002K, EU005K, EU006K)-002 and (EU0012K, and EU0013K)-001.

This sheet covers the period from _____ to _____.
 (month, year) (month, year)
 Copy as needed.

Column A	Column B	Column C	Column D	Column E
Month	Amount of Charcoal Produced (tons) (Note 1)	PM ₁₀ Emission Factor (lbs/Ton) (Note 2)	Monthly PM ₁₀ Emissions (Tons) (Note 3)	12-Month PM ₁₀ Emissions (Tons/Year) (Note 4)
Example Month	1,210	0.3851	0.2330	13.2
		0.8998	0.5444	

Note 1: Total amount of charcoal produced in kilns #65-80 during this month.
 Note 2: The Composite PM₁₀ emission factor for emissions from EU002K, EU005K, and EU006K is equal to **0.3851 lbs PM₁₀/ton** of charcoal produced in kilns #65-80. The PM₁₀ emission factor from the kilns #65-80 and associated control systems (EP-12 and EP-13) is to **0.0695 lbs PM₁₀/ton** of charcoal produced, and is based on the stack testing performed June 2005.
 Note 3: Multiply each emission factor by the amount of charcoal produced: Column B x Column C x 0.0005. Add the two emissions together in the second sub-column in Column D.
 Note 4: Sum of last 12-months of Column D. 12-Month Total PM₁₀ emissions less than 15 tons for Column E indicates compliance

Attachment H

Malfunction Log

This log, or its equivalent, shall be used to demonstrate compliance with the malfunction recordkeeping requirements of Permit Condition (EU008K through EU013K)-002.

Emission Unit	
Date	
Duration	
Description of Malfunction Cause	
Actions Taken to Remedy Malfunction	

Attachment J

Method 9 Observation Log

This log, or its equivalent, shall be used to demonstrate compliance with the Method 9 recordkeeping requirements of Permit Condition (EU008K through EU013K)-003; Permit Condition (EU024 through EU039)-002; Permit Condition (EU002 through EU008)-001, and Permit Condition (EU010A-EU021)-001.

Method 9 Opacity Emissions Observations								
Company					Observer			
Location					Observer Certification Date			
Date					Emission Unit			
Time					Control Device			
Hour	Minute	Seconds				Steam Plume (check if applicable)		Comments
		0	15	30	45	Attached	Detached	
	0							
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
SUMMARY OF AVERAGE OPACITY								
Set Number	Time				Opacity			
	Start	End	Sum	Average				

Readings ranged from _____ to _____ % opacity.

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

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 March 12 2009;
- 2) 2008 Emissions Inventory Questionnaire, received 5/27/2009 for site #035-0004; and 2006 Emissions Inventory Questionnaire, received 3/28/07 for site #035-0021; and
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition.

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.

None

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.

All rule applicability is detailed in Other Regulatory Requirements below.

Construction Permit History

The following Construction Permit were issued to this installation:

1. Construction Permit 0782-008 to 0782-009
This construction permit was issued on June 23, 1982, to authorize installation of a 25.83 MMBtu/hr wood sawdust fired boiler and a charcoal briquetting operation. There are no special conditions in this permit. This equipment has been removed from site.
2. Construction Permit 1297-014
This permit was issued December 2, 1997, to authorize construction of a Brix plant. This permit does not contain any special conditions.

3. Construction Permit 062003-004

This permit was issued June 3, 2003, to authorize installation of 16 new concrete charcoal kilns (kiln #s 49-64) and 2 new thermal oxidizers rated at 10 MMBtu/hr. This permit does contain special conditions, which have been incorporated into the Operating Permit. However, the stack testing requirements were not incorporated into this Operating Permit because they are one time requirements that have already been satisfied.

4. Construction Permit 072003-013

This permit was issued July 17, 2003, to authorize installation of a new portable concrete plant, a truck mix concrete batch plant with a rated capacity of 150 tons/hour. The temporary batch plant will supply the concrete necessary to construct the 16 new kilns permitted by Construction Permit 062003-004. The special conditions of this Construction Permit have not been incorporated into the Operating Permit because this plant was removed from site when construction of the new kilns was completed.

5. Construction Permit 102003-009

This permit was issued October 16, 2003, to authorize construction of 16 new concrete charcoal kilns (#65-80) and 2 new recuperative thermal oxidizers, which are rated at 2.5 MMBtu/hr and burn propane (EP12 and 13). This permit does contain special conditions, which have been incorporated into the Operating Permit. However, the stack testing requirements were not incorporated into this Operating Permit because they are one time requirements that have already been satisfied.

6. Construction Permit 102008-003

This permit was issued October 16, 2008 to authorize installation of a new lump charcoal screening and bagging operation. This permit does contain special conditions, which have been incorporated into the Operating Permit.

New Source Performance Standards (NSPS) Applicability

None

Maximum Available Control Technology (MACT) Applicability

None

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

None

Other Regulatory Determinations

10 CSR 10-3.060, *Maximum Allowable Emissions of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating*

This regulation applies to the boilers. The potential emissions of these units are less than the emission limit established by the rule as shown below. It is expected that these units will always be in compliance with the emission limitation, therefore this rule is not included in the Operating Permit.

EU#	MHDR (Mgal/hr)	Emission factor (lb/1000 gal) SCC 10201002, WebFIRE	PTE (lb/MMBTU)	Emission Limit (lb/MMBTU)
EU008	0.0255	0.06	0.001	0.6
EU021	0.0223	0.06	0.001	0.6

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

This regulation does not appear in the Operating Permit because the all emission units meet at least one of the exemptions in the rule.

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:

Nicole Weidenbenner, P.E.
Environmental Engineer