

# INTERMEDIATE STATE PERMIT TO OPERATE

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

**Intermediate Operating Permit Number:** OP2009-039

**Expiration Date:** NOV 30 2014

**Installation ID:** 203-0005

**Project Number:** 2007-06-062

**Installation Name and Address**

Missouri Hardwood Flooring Company  
Highway 99 North  
Birch Tree, MO 65438  
Shannon County

**Parent Company's Name and Address**

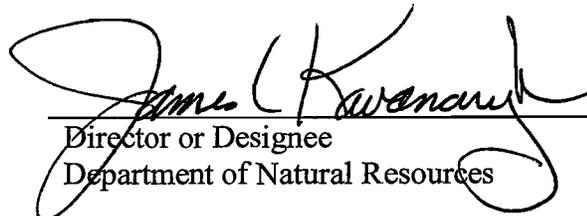
Missouri Hardwood Flooring Company  
P.O. Box 117  
Birch Tree, Missouri 65438

**Installation Description:**

Missouri Hardwood Flooring Company operates a flooring manufacturing plant in Birch Tree, Missouri.

DEC 01 2009

Effective Date

  
Director or Designee  
Department of Natural Resources

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# I. Installation Description and Equipment Listing

## INSTALLATION DESCRIPTION

Missouri Hardwood Flooring Company operates a flooring manufacturing plant in Birch Tree, Missouri.

Reported Air Pollutant Emissions, tons per year							
Year	Particulate Matter ≤ Ten Microns (PM-10)	Sulfur Oxides (SO <sub>x</sub> )	Nitrogen Oxides (NO <sub>x</sub> )	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Lead (Pb)	Hazardous Air Pollutants (HAPs)
2007	15.94	1.15	22.62	0.78	27.70	0.002	1.13
2006	23.09	1.14	22.36	0.78	27.38	0.002	---
2005	29.49	1.06	20.85	0.72	25.54	---	1.04
2004	15.75	0.80	7.02	1.21	19.16	---	0.78
2003	21.94	0.65	5.76	1.02	15.72	---	0.64

## 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
EU0010	Gang Rip Saw EP#1
EU0020	Strip Floor Saw EP#1
EU0030	Rough Knot Saws (5) EP#1
EU0040	Planer Saws (2) EP#1
EU0050	Finish Knot Saws (5) EP#1
EU0060	End Matcher Saws (2) EP#1
EU0070	Wood Hog EP#1
EU0080	Gang Rip Saw EP#2
EU0090	Strip Floor Saw EP#2
EU0100	Slash Saw (Cut-offs) EP#2
EU0110	Rough Knot Saws (2) EP#2
EU0120	Planer EP#2
EU0130	Finish Knot Saws (3) EP#2
EU0140	End Matcher Saws (2) EP#2
EU0150	Wood Hog EP#2
EU0160	Surfacer Saw EP#3
EU0170	Gang Rip Saw EP#3
EU0180	Cut Up Saw EP#3
EU0190	Rough Knot Saws (4) EP#3
EU0200	Planer EP#3
EU0210	Finish Knot Saws (4) EP#3
EU0220	End Matcher Saws (2) EP#3
EU0230	Wood Hog EP#3
EU0240	Boiler EP#5
EU0250	Silo Storage EP#7

EU0260	Storage Bin EP#8
EU0270	Haul Road Rough Lumber EP#9
EU0280	Haul Road/Moving Finished Lumber with Fork Lifts EP#10
EU0290	Haul Road for Sawdust EP#11
EU0300	Haul Road for Finished Lumber EP#12

### **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

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None.

### **DOCUMENTS INCORPORATED BY REFERENCE**

This permit incorporates the following documents by reference:

Construction Permit No. 0184-012  
Construction Permit No. 0192-005  
Construction Permit No. 0387-009  
Construction Permit No. 0797-020  
Construction Permit No. 112000-009

## 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;"><b>PERMIT CONDITION PW001</b></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>
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**Emission Limitation:**

The permittee shall not cause or allow the emission of particulate matter of a diameter of less than or equal to 10 microns (PM<sub>10</sub>) in excess of 100 tons in any consecutive 12 month period.

**Monitoring/Record Keeping:**

1. The permittee shall maintain an accurate record of average monthly throughput for emission units: EU0010 through EU0260.
2. The monthly emissions of particulate matter of a diameter of less than 10 microns for each emission unit shall be calculated as demonstrated in Attachment J or an equivalent form generated by the permittee.
3. The permittee shall calculate their annual emission of particulate matter of size 10 microns or less 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.
4. 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:**

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 65101, no later than fifteen (15) days after the exceedance.

### 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 EU0070, EU0260, and EU0290) – Process Line #1</b>		
<b>Emission Unit</b>	<b>Description</b>	<b>2007 EIQ Reference #</b>
EU0010	Gang Rip Saw	EP#1
EU0020	Strip Floor Saw	EP#1
EU0030	Rough Knot Saws (5)	EP#1
EU0040	Planer Saws (2)	EP#1
EU0050	Finish Knot Saws (5)	EP#1
EU0060	End Matcher Saws (2)	EP#1
EU0070	Wood Hog	EP#1
EU0260	Storage Bin	EP#8
EU0290	Haul Road for Sawdust	EP#11

**PERMIT CONDITION (EU0010 through EU0070, EU0260, and EU0290) -001**  
 10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants

**Emission Limitation:**

1. No owner or other person shall cause or permit to be discharged into the atmosphere from any 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 sixty (60) minutes air contaminants with an opacity up to 60%.

**Monitoring:**

1. 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.
2. The following monitoring schedule must be maintained:
  - a) 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
  - b) 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
  - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
3. If the source reverts to daily 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 A & B), 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.
3. The permittee shall maintain records of any U.S. EPA Method 9 opacity test performed in accordance with this permit condition.
4. These records shall be made available immediately for inspection to the Department of Natural Resource' personnel upon request.
5. 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 65101, 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>PERMIT CONDITION (EU0010 through EU0060)-002</b>
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10 CSR 10-6.400 Restriction of Emission of Particulate Matter from Industrial Processes
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**Emission Limitation:**

1. The permittee shall not emit particulate matter in excess of 41.62 lbs/hr from these emission units.
2. No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grain per standard cubic foot of exhaust gases.

**Monitoring/Record Keeping:**

1. The permittee shall retain the potential to emit calculations in Attachment C which demonstrate that the above emission limitation will never be exceeded. No further record keeping shall be required to demonstrate compliance with the emission limitations.
2. The calculation shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
3. All records shall be kept for a period of five (5) years.

**Reporting:**

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65101, 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 EU0070-002**

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

**Emission Limitation:**

1. The permittee shall not emit particulate matter in excess of 19.18 pounds per hour from this emission unit.
2. No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grains per standard cubic foot of exhaust gases.

**Monitoring/Record Keeping:**

1. The permittee shall retain the potential to emit calculations in Attachment C which demonstrate that the above emission limitation will never be exceeded. No further record keeping shall be required to demonstrate compliance with the emission limitations.
2. The calculation shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
3. All records shall be kept for a period of five (5) years.

**Reporting:**

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65101, 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 EU0260-002**

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

**Emission Limitation:**

1. The permittee shall not emit particulate matter in excess of 12.05 pounds per hour from this emission unit.
2. No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grains per standard cubic foot of exhaust gases.

**Monitoring/Record Keeping:**

1. The permittee shall retain the potential to emit calculations in Attachment C which demonstrate that the above emission limitation will never be exceeded. No further record keeping shall be required to demonstrate compliance with the emission limitations.
2. The calculation shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
3. All records shall be kept for a period of five (5) years.

**Reporting:**

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65101, 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 (EU0070, EU0260, and EU0290)-003**

10 CSR 10-6.060 Construction Permits Required  
Construction Permit No. 112000-009, Issued November 3, 2000

**Emission Limitation:**

Missouri Hardwood Flooring Co. shall not discharge into the atmosphere from the Williams Crusher (Emission Point, EP#1), the Storage Bin (EP#8), and the Haul Road (EP#11) particulate matter less than ten (10) micron (PM<sub>10</sub>) in excess of 15 tons in any consecutive 12 month period.

**Monitoring/Record Keeping:**

Attachment D or an equivalent form approved by the Air Pollution Control Program (APCP) shall be used for this purpose. Missouri Hardwood Flooring Co. 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' (DNR) personnel upon request.

**Reporting:**

Missouri Hardwood Flooring Co. 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 from Permit Condition EU0070-004 indicate that the source exceeds the limitation of Permit Condition EU0070-003.

**PERMIT CONDITION EU0070-004**

10 CSR 10-6.060 Construction Permits Required  
Construction Permit No. 112000-009, Issued November 3, 2000

**Special Condition:**

Missouri Hardwood Flooring Co. shall control emissions from the Williams Crusher (EP#1) using baghouses as specified in the permit application. 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 indicates 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 and drum filters 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).

**Monitoring/Record Keeping:**

1. Missouri Hardwood Flooring Co. shall monitor and record the operating pressure drop across the baghouses and drum filters at least once every 24 hours. Attachment D or an equivalent form approved by the Air Pollution Control Program can be used for this purpose. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.
2. Missouri Hardwood Flooring Co. shall maintain an operating and maintenance log for the baghouses and drum filters. An example operating and maintenance log is shown in Attachment E or an equivalent form may be generated and approved by the Air Pollution Control Program which shall include the following:

- 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.
3. All records shall be kept for a period of five (5) years and shall be available immediately to any Missouri Department of Natural Resources' (DNR) personnel upon request.

**Reporting:**

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65101, 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>(EU0080 through EU0150) – Process Line #2</b>		
Emission Unit	Description	2007 EIQ Reference #
EU0080	Gang Rip Saw	EP#2
EU0090	Strip Floor Saw	EP#2
EU0100	Slash Saw (Cut-offs)	EP#2
EU0110	Rough Knot Saws (2)	EP#2
EU0120	Planer	EP#2
EU0130	Finish Knot Saws (3)	EP#2
EU0140	End Matcher Saws (2)	EP#2
EU0150	Wood Hog	EP#2

<p><b>PERMIT CONDITION (EU0080 through EU0150)-001</b>          10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants</p>
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**Emission Limitation:**

- 1. No owner or other person shall cause or permit to be discharged into the atmosphere from any 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 sixty (60) minutes air contaminants with an opacity up to 60%.

**Monitoring:**

- 1. 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.
- 2. The following monitoring schedule must be maintained:
  - a) 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
  - b) 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

- c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
3. If the source reverts to daily 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 A & B), 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.
3. The permittee shall maintain records of any U.S. EPA Method 9 opacity test performed in accordance with this permit condition.
4. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
5. 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 65101, 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.

<p><b>PERMIT CONDITION (EU0080 and EU0100 through EU0150)-002</b> 10 CSR 10-6.400 Restriction of Emission of Particulate Matter from Industrial Processes</p>
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**Emission Limitation:**

1. The permittee shall not emit particulate matter in excess of 41.62 pounds per hour from this emission unit.
2. No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grains per standard cubic foot of exhaust gases.

**Monitoring/Record Keeping:**

1. The permittee shall retain the potential to emit calculations in Attachment C which demonstrate that the above emission limitation will never be exceeded. No further record keeping shall be required to demonstrate compliance with the emission limitations.
2. The calculation shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
3. All records shall be kept for a period of five (5) years.

**Reporting:**

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65101, 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 EU0090-002**

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

**Emission Limitation:**

1. The permittee shall not emit particulate matter in excess of 30.82 lbs/hr from this emission unit.
2. No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grain per standard cubic foot of exhaust gases.

**Monitoring/Record Keeping:**

1. The permittee shall retain the potential to emit calculations in Attachment C which demonstrate that the above emission limitation will never be exceeded. No further record keeping shall be required to demonstrate compliance with the emission limitations.
2. The calculation shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
3. All records shall be kept for a period of five (5) years.

**Reporting:**

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65101, 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>(EU0160 through EU0230) – Process Line #3</b>		
<b>Emission Unit</b>	<b>Description</b>	<b>2007 EIQ Reference #</b>
EU0160	Surfacer Saw	EP#3
EU0170	Gang Rip Saw	EP#3
EU0180	Cut Up Saw	EP#3
EU0190	Rough Knot Saws (4)	EP#3
EU0200	Planer	EP#3
EU0210	Finish Knot Saws (4)	EP#3
EU0220	End Matcher Saws (2)	EP#3
EU0230	Wood Hog	EP#3

**PERMIT CONDITION (EU0160 through EU0230)-001**

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

**Emission Limitation:**

1. No owner or other person shall cause or permit to be discharged into the atmosphere from any 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 sixty (60) minutes air contaminants with an opacity up to 60%.

**Monitoring:**

1. 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.
2. The following monitoring schedule must be maintained:
  - a) 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
  - b) 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
  - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
3. If the source reverts to daily 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 A & B), 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.
3. The permittee shall maintain records of any U. S. EPA Method 9 opacity test performed in accordance with this permit condition.
4. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
5. 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 65101, 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.

<p><b>PERMIT CONDITION (EU0160 and EU0190 through EU0220)-002</b> 10 CSR 10-6.400 Restriction of Emission of Particulate Matter from Industrial Processes</p>
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**Emission Limitation:**

1. The permittee shall not emit particulate matter in excess of 41.62 pounds per hour from this emission unit.
2. No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grains per standard cubic foot of exhaust gases.

**Monitoring/Record Keeping:**

1. The permittee shall retain the potential to emit calculations in Attachment C which demonstrate that the above emission limitation will never be exceeded. No further record keeping shall be required to demonstrate compliance with the emission limitations.
2. The calculation shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
3. All records shall be kept for a period of five (5) years.

**Reporting:**

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65101, 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 EU0170-002**

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

**Emission Limitation:**

1. The permittee shall not emit particulate matter in excess of 30.2 pounds per hour from this emission unit.
2. No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grains per standard cubic foot of exhaust gases.

**Monitoring/Record Keeping:**

1. The permittee shall retain the potential to emit calculations in Attachment C which demonstrate that the above emission limitation will never be exceeded. No further record keeping shall be required to demonstrate compliance with the emission limitations.
2. The calculation shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
3. All records shall be kept for a period of five (5) years.

**Reporting:**

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65101, 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 EU0180-002**

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

**Emission Limitation:**

1. The permittee shall not emit particulate matter in excess of 27.9 pounds per hour from this emission unit.
2. No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grains per standard cubic foot of exhaust gases.

**Monitoring/Record Keeping:**

1. The permittee shall retain the potential to emit calculations in Attachment C which demonstrate that the above emission limitation will never be exceeded. No further record keeping shall be required to demonstrate compliance with the emission limitations.
2. The calculation shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
3. All records shall be kept for a period of five (5) years.

**Reporting:**

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65101, 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 EU0230-002**

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

**Emission Limitation:**

1. The permittee shall not emit particulate matter in excess of 19.18 pounds per hour from this emission unit.
2. No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grains per standard cubic foot of exhaust gases.

**Monitoring/Record Keeping:**

1. The permittee shall retain the potential to emit calculations in Attachment C which demonstrate that the above emission limitation will never be exceeded. No further record keeping shall be required to demonstrate compliance with the emission limitations.
2. The calculation shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
3. All records shall be kept for a period of five (5) years.

**Reporting:**

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65101, 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 (EU0160, EU0170, and EU0190 through EU0220)-003**

10 CSR 10-6.060 Construction Permits Required

Construction Permit No. 0192-005, Issued January 22, 1992

**Special Condition:**

1. An adequate supply of replacement bags for the baghouse shall be kept on site at all times.
2. A copy of the permit shall be kept on site and shall be made available to Department of Natural Resources' personnel upon verbal request.

**PERMIT CONDITION (EU0180 and EU0230)-003**

10 CSR 10-6.060 Construction Permits Required  
 Construction Permit No. 0797-020, Issued July 7, 1997

**Special Condition:**

Baghouses shall be in use at all times when the cut-off saw and Williams hog are in operation, and shall be operated and maintained in accordance with the manufacturer's specifications. The baghouses shall be equipped with a gauge or meter which indicates the pressure drop across them. This gauge or meter shall be located such that it may be easily observed by the Department of Natural Resources' employees. Replacement bags 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).

**EU0240 – Boiler**

Emission Unit	Description	Manufacturer/Model #	2007 EIQ Reference #
EU0240	Wood Burning Boiler installed 1987 – 15.1 MMBtu/hr - Multiclone	Energy Systems Limited ABCO Industries	EP#5

**PERMIT CONDITION EU0240-001**

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

**Emission Limitation:**

1. No owner or other person shall cause or permit to be discharged into the atmosphere from any 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 sixty (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. 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 (8) 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 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
  - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
3. If the source reverts to daily 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 Attachments A & B), 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.
3. The permittee shall maintain records of any U.S. EPA Method 9 opacity test performed in accordance with this permit condition.
4. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
5. 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 65101, 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 EU0240-002**

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

**Emission Limitation:**

The permittee shall not emit particulate matter in excess of 0.56 pounds per million BTU of heat input.

**Operation and Equipment Parameters:**

The permittee shall calibrate, maintain and operate the instrumentation and cyclone according to the manufacturer's specifications and recommendations.

**Monitoring:**

1. Check the air flow rate and the total static pressure drop across the multiclone once per working day when the process is in operation. If the pressure drop is less than 2 inches of water head, corrective action shall be taken within eight (8) hours to return the pressure drop above the minimum allowable.
2. Inspect the solids discharge valve for proper operation weekly.
3. Inspect the structural components including the multiclone ductwork and hoods for leaks and component failure quarterly. Maintain a written record of the observations, deficiencies and any action resulting from the inspection.

4. Check for leaks in the system to ensure air from the dirty side does not infiltrate the clean side annually.
5. Verify that the inlet and outlet ductwork is in proper operating condition annually.
6. Check the barrel and collecting tube for deposits and/or excess wear annually. Clean and repair as needed.
7. Maintain a written record of the observations, deficiencies and any action resulting from the inspection.
8. If leaks or abnormal conditions are detected, the appropriate measures for remediation shall be implemented within eight (8) hours.
9. All instruments and control equipment shall be calibrated, maintained and operated according to the manufacturer's specifications.
10. The permittee shall monitor the throughput of coal on a monthly basis.

**Record Keeping:**

1. The permittee shall maintain an accurate record of throughput, emission factors and actual emissions of particulate matter emitted into the atmosphere from this emission unit. Attachment F contains a log including these recordkeeping requirements. This log, or an equivalent log created by the permittee, must be used to certify compliance with this requirement.
2. The permittee shall maintain a record of air flow rate and pressure drop across the multiclone daily.
3. All weekly, quarterly and annual inspections, corrective actions, and instrument calibration shall be recorded.
4. Records may be kept in either written or electronic form.
5. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
6. 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 65101, 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>PERMIT CONDITION EU0240-003</b>
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10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds
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**Emission Limitation:**

1. No person shall cause or allow emissions of sulfur dioxide into the atmosphere from any indirect heating source in excess of eight (8) pounds of sulfur dioxide per million BTUs actual heat input averaged on any consecutive three hour time period.
2. No person shall cause or permit the emission of sulfur compounds from any source which causes or contributes to concentrations exceeding those specified in 10 CSR 10-6.010 Ambient Air Quality Standards.

**Monitoring/Record Keeping:**

1. The permittee shall maintain an accurate record of the sulfur content of fuel as fired.

2. The permittee shall maintain a record of the monthly emission calculations for sulfur dioxide that demonstrates compliance with the limitations of this regulation.
3. The permittee shall monitor the sulfur content of each delivery of fuel. The following analysis shall be performed on a representative sample: weighted average sulfur (%) and weighted average BTU/lb.
4. The permittee shall keep a log noting the coal delivery analysis consisting of the weighted average sulfur and the weighted average BTU/lb.
5. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
6. All records shall 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 65101, 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 EU0240-004**

10 CSR 10-6.060 Construction Permits Required  
Construction Permit No. 0387-009A, Issued March 23, 1987

**Special Condition:**

Missouri Hardwood Flooring shall operate a particulate matter control system which shall be at least 70 percent efficient at removing the particulate emissions generated by the operation of the proposed wood fired boiler. This control device shall be operated at any time that the boiler is in operation.

<b>EU0250 – Silo Storage</b>			
Emission Unit	Description	Manufacturer/Model #	2007 EIQ Reference #
EU0250	Silo Storage	Mast-Lepcey Silo, Inc.	EP#7

**PERMIT CONDITION EU0250-001**

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

**Emission Limitation:**

1. No owner or other person shall cause or permit to be discharged into the atmosphere from any 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 sixty (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. 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 (8) 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 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
  - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
3. If the source reverts to daily 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 Attachments A & B), 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.
3. The permittee shall maintain records of any U.S. EPA Method 9 opacity test performed in accordance with this permit condition.
4. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
5. 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 65101, 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 EU0250-002**

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

**Emission Limitation:**

1. The permittee shall not emit particulate matter in excess of 12.05 pounds per hour from this emission unit.
2. No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grains per standard cubic foot of exhaust gases.

**Monitoring/Record Keeping:**

1. The permittee shall retain the potential to emit calculations in Attachment C which demonstrate that the above emission limitation will never be exceeded. No further record keeping shall be required to demonstrate compliance with the emission limitations.
2. The calculation shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
3. All records shall be kept for a period of five (5) years.

**Reporting:**

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65101, 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>EU0270 through EU0280 – Haul Road</b>		
<b>Emission Unit</b>	<b>Description</b>	<b>2007 EIQ Reference #</b>
EU0270	Haul Road Rough Lumber	EP#9
EU0280	Haul Road/Moving Finished Lumber with Fork Lifts	EP#10

<p align="center"><b>PERMIT CONDITION (EU0270 through EU0280)-001</b> 10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants</p>
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**Emission Limitation:**

1. No owner or other person shall cause or permit to be discharged into the atmosphere from any 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 sixty (60) minutes air contaminants with an opacity up to 60%.

**Monitoring:**

1. 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.
2. The following monitoring schedule must be maintained:
  - a) 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
  - b) 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
  - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
3. If the source reverts to daily 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 A & B), 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.
3. The permittee shall maintain records of any U.S. EPA Method 9 opacity test performed in accordance with this permit condition.
4. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
5. 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 65101, 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>EU0300 – Haul Road for Finished Lumber</b>		
Emission Unit	Description	2007 EIQ Reference #
EU0300	Haul Road for Finished Lumber	EP#12

**PERMIT CONDITION EU0300-001**  
 10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants

**Emission Limitation:**

1. No owner or other person shall cause or permit to be discharged into the atmosphere from any 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 sixty (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. 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 (8) 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 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
  - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.

3. If the source reverts to daily 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 A & B), 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.
3. The permittee shall maintain records of any U.S. EPA Method 9 opacity test performed in accordance with this permit condition.
4. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
5. 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 65101, 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.

## 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.

<b>10 CSR 10-6.050 Start-up, Shutdown and Malfunction Conditions</b>
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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 10-6.110 Submission of Emission Data, Emission Fees and Process Information**

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

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

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

### **10 CSR 10-6.150 Circumvention**

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

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

- 1) The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line of origin. The nature or origin of the particulate matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the Director.
- 2) The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.
- 3) Should it be determined that noncompliance has occurred, the Director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:

- a) Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
- b) Paving or frequent cleaning of roads, driveways and parking lots;
- c) Application of dust-free surfaces;
- d) Application of water; and
- e) Planting and maintenance of vegetative ground cover.

#### **10 CSR 10-6.180 Measurement of Emissions of Air Contaminants**

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

#### **10 CSR 10-6.045 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) Missouri Hardwood Flooring Company may be issued an annually renewable open burning permit for open burning provided that an air curtain destructor or incinerator is utilized and only tree trunks, tree limbs, vegetation or untreated wood waste are burned. Open burning shall occur at least two hundred (200) yards from the nearest occupied structure unless the owner or operator of the occupied structure provides a written waiver of this requirement. Any waiver shall accompany the open burning permit application. The permit may be revoked if Missouri Hardwood Flooring Company fails to comply with the provisions or any condition of the open burning permit.
    - (A) In a nonattainment area, as defined in 10 CSR 10-6.020, paragraph (2)(N)5., the Director shall not issue a permit under this section unless the owner or operator can demonstrate to the satisfaction of the Director that the emissions from the open burning of the specified material would be less than the emissions from any other waste management or disposal method.
  - (5) Reporting and Record Keeping. New Source Performance Standard (NSPS) 40 CFR Part 60 Subpart CCCC establishes certain requirements for air curtain destructors or incinerators that burn wood trade waste. These requirements are established in 40 CFR 60.2245-60.2260. The provisions of 40 CFR Part 60 Subpart CCCC promulgated as of September 22, 2005 shall apply and are hereby incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401. To comply with NSPS 40 CFR 60.2245-60.2260, sources must conduct an annual Method 9 test. A copy of the annual Method 9 test results shall be submitted to the Director.
  - (6) Test Methods. The visible emissions from air pollution sources shall be evaluated as specified by 40 CFR Part 60, Appendix A–Test Methods, Method 9–Visual Determination of the Opacity of Emissions from Stationary Sources. The provisions of 40 CFR Part 60, Appendix A, Method 9 promulgated as of December 23, 1971 is incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401.

**10 CSR 10-3.090 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 10-6.080 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 10-6.250 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.

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)(C)1 and §(6)(C)1.B Permit Duration**

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

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

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

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

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

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

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

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

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

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

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 June 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and exceedances must be included in the compliance certifications. The compliance certification shall include the following:
  - a) The identification of each term or condition of the permit that is the basis of the certification;
  - b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;
  - c) Whether compliance was continuous or intermittent;
  - d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period; and
  - e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

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

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

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

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

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

The application utilized in the preparation of this permit was signed by Mr. Brian Reese, Plant Superintendent. 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**  
 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



**ATTACHMENT C**  
 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 that CAM does not apply. Particulate Matter Emissions Factor taken from FIRE.

Emission Unit	Maximum Hourly Design Rate (tons/hr)	PM Emission Factor (lb/ton)	Control Device Efficiency (%)	Potential Particulate Matter Emission Rate (lb/hr)	Allowable Particulate Matter Emission Rate (lb/hr)
EU0010 Gang Rip Saw	36.2	0.20	49.5	3.66	41.62
EU0020 Strip Floor Saw	36.2	0.20	49.5	3.66	41.62
EU0030 Rough Knot Saws (5)	36.2	0.20	49.5	3.66	41.62
EU0040 Planer Saws (2)	36.2	0.20	49.5	3.66	41.62
EU0050 Finish Knot Saws (5)	36.2	0.20	49.5	3.66	41.62
EU0060 End Matcher Saws (2)	36.2	0.20	49.5	3.66	41.62
EU0070 Wood Hog	10.0	0.20	49.5	1.01	19.18
EU0080 Gang Rip Saw	36.2	0.20	49.5	3.66	41.62
EU0090 Strip Floor Saw	20.3	0.20	49.5	2.05	30.82
EU0100 Slash Saw (Cut-Offs)	36.2	0.20	49.5	3.66	41.62
EU0110 Rough Knot Saws (2)	36.2	0.20	49.5	3.66	41.62
EU0120 Planer Saw	36.2	0.20	49.5	3.66	41.62
EU0130 Finish Knot Saws (3)	36.2	0.20	49.5	3.66	41.62
EU0140 End Matcher Saw (2)	36.2	0.20	49.5	3.66	41.62
EU0150 Wood Hog	36.2	0.20	49.5	3.66	41.62
EU0160 Surfacers Saw	36.2	0.20	49.5	3.66	41.62
EU0170 Gang Rip Saw	19.7	0.20	49.5	1.99	30.20
EU0180 Cut Up Saw	17.5	0.20	49.5	1.77	27.90
EU0190 Rough Knot Saws (4)	36.2	0.20	49.5	3.66	41.62
EU0200 Planer Saw	36.2	0.20	49.5	3.66	41.62
EU0210 Finish Knot Saws (4)	36.2	0.20	49.5	3.66	41.62
EU0220 End Matcher Saws (2)	36.2	0.20	49.5	3.66	41.62
EU0230 Wood Hog	10.0	0.20	49.5	1.01	19.18
EU0250 Silo Storage	5.0	0.58	90.0	0.29	12.05
EU0260 Storage Bin	5.0	1.20	50.0	3.00	12.05







**Attachment G**  
 10 CSR 10-3.060 Compliance Demonstration

This attachment may be used to demonstrate that the listed emission units are in compliance with 10 CSR 10-3.060, *Restriction of Emission of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating*. Installation's Total Heat Input (Q) in MMBtu/hr:

<b>Emission Unit ID #</b>	<b>MHDR (MMBtu/hr)</b>	<b>2008 EIQ Reference #</b>
EU0240 Boiler	15.10	EP#5
<b>Total Q</b>	15.10	

Allowable particulate matter emission limitation for existing indirect heating sources having an intermediate capacity between 10 MMBtu and 10,000 MMBtu:

$$E = 0.9(Q)^{-0.174}$$

$$E = 0.9(15.1)^{-0.174} = 0.56 \text{ lb/MMBtu}$$

<b>Emission Unit</b>	<b>Fuel</b>	<b>Emission Factor (lb/ton)</b>	<b>Source</b>	<b>Potential to Emit (lb/hr)</b>	<b>Conversion Factors (MMBtu/ton)</b>	<b>Calculated Emissions (lb/MMBtu)</b>	<b>Emission Limit (lb/MMBtu)</b>	<b>Is the Emission Unit in compliance?</b>
EU0240 Boiler	Wood	6.4	AP-42	3.47	27.779	0.23	0.56	Yes

These calculations are for a wood boiler with no control. The calculations show that no further monitoring or record keeping is necessary because the emission units worst-case emissions are substantially lower than the applicable limit. CAM is not applicable.

**Attachment H**  
10 CSR 10-6.260 Compliance Demonstration

For the boiler EU0240 the following table demonstrates that the unit will always be in compliance with **10 CSR 10-6.260(3)(C)A** when wood is the fuel burned in the boiler..

<b>Emission Unit</b>	<b>Fuel</b>	<b>SO<sub>2</sub> Emissions Factor</b>	<b>SO<sub>2</sub> Emissions Limit</b>	<b>Is the Emission Unit in Compliance?</b>
Boiler EU0240	Wood	0.025 lb/MMBtu	8 lb/MMBtu	Yes

Emission Factors were taken from AP-42. The calculations show that no further monitoring or record keeping is necessary because the emission units worst-case emissions are substantially lower than the applicable limit.

**Attachment I**

Plantwide Potential Emissions for Particulate Matter of 10 microns or less

Emission Unit	Potential Particulate Matter Emission Rate (lb/hr)
EU0010 Gang Rip Saw	3.66
EU0020 Strip Floor Saw	3.66
EU0030 Rough Knot Saws (5)	3.66
EU0040 Planer Saws (2)	3.66
EU0050 Finish Knot Saws (5)	3.66
EU0060 End Matcher Saws (2)	3.66
EU0070 Wood Hog	1.01
EU0080 Gang Rip Saw	3.66
EU0090 Strip Floor Saw	2.05
EU0100 Slash Saw (Cut-Offs)	3.66
EU0110 Rough Knot Saws (2)	3.66
EU0120 Planer Saw	3.66
EU0130 Finish Knot Saws (3)	3.66
EU0140 End Matcher Saw (2)	3.66
EU0150 Wood Hog	3.66
EU0160 Surfacers Saw	3.66
EU0170 Gang Rip Saw	1.99
EU0180 Cut Up Saw	1.77
EU0190 Rough Knot Saws (4)	3.66
EU0200 Planer Saw	3.66
EU0210 Finish Knot Saws (4)	3.66
EU0220 End Matcher Saws (2)	3.66
EU0230 Wood Hog	1.01
EU0240 Boiler	0.35
EU0250 Silo Storage	0.29
EU0260 Storage Bin	3.00
Total (lb/hr)	77.28
<b>Total (tons/yr)</b>	<b>338.48</b>

Missouri Hardwood Flooring Company’s Potential to Emit Particulate Matter is in excess of the 100 ton/yr intermediate threshold. In order to maintain intermediate status the permittee must complete the emissions tracking worksheet, Attachment J.



# 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 June 21, 2007;
- 2) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition.
- 3) Construction Permit No. 0497-022.

## **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.

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

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

## **Construction Permit Revisions**

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

EU0250 now uses a cyclone particulate control device rather than a baghouse so Construction Permit No. 0192-005 Special Conditions are no longer applicable to this unit.

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

None.

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

40 CFR Part 63 Subpart DDDD does not apply because oak plywood is only be cut, not manufactured.

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

None.

**Other Regulatory Determinations**

An update PTE was performed showing that the facility only need voluntary limitations on particulate matter in order to be intermediate. The PTE in Construction Permit No. 112000-009 was out of date.

Pollutant	Potential Emissions (tons/yr)
CO	7.63
HAP	0.31
Pb	---
NO <sub>x</sub>	6.23
PM <sub>10</sub>	353.13
PM <sub>25</sub>	2.25
SO <sub>x</sub>	0.32
VOC	0.22

**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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Alana L. Rugen  
Environmental Engineer

CERTIFIED MAIL: 70073020000315697114  
RETURN RECEIPT REQUESTED

Mr. Brian Reese  
Missouri Hardwood Flooring Company  
P.O. Box 117  
Birch Tree, MO 65438

Re: Missouri Hardwood Flooring Company, 203-0005  
Permit Number: OP2009-039

Dear Mr. Reese:

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 643.075.6 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 Alana Rugen at the Department's 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/ark

Enclosures

c: Ms. Tamara Freeman, U.S. EPA Region VII  
Southeast Regional Office  
PAMS File: 2007-06-062