



## PART 70 PERMIT TO OPERATE

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

**Operating Permit Number:** OP2014-028  
**Expiration Date:** SEP 22 2019  
**Installation ID:** 091-0038  
**Project Number:** 2011-12-071

**Installation Name and Address**

Garnett Wood Products – Char Plant  
11400 County Road 9890  
Brandsville, MO 65688  
Howell County

**Installation Description:**

The installation produces wood char from a raw material which is primarily sawdust, but also includes hog fuel and wood chips. The raw material is received and stored onsite in storage piles until needed. The raw material is conveyed to a pyrolysis furnace where char is produced. Char is stored onsite in storage piles prior to shipping. The installation is a major source of CO, GHG, NO<sub>x</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, and VOC.

SEP 23 2014

Effective Date

Director or Designee  
Department of Natural Resources

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## Table of Contents

<b>I. INSTALLATION DESCRIPTION AND EQUIPMENT LISTING .....</b>	<b>3</b>
<b>II. PLANT WIDE EMISSION LIMITATIONS.....</b>	<b>5</b>
<b>III. EMISSION UNIT SPECIFIC EMISSION LIMITATIONS .....</b>	<b>6</b>
PERMIT CONDITION 001 .....	6
10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants .....	6
PERMIT CONDITION 002.....	7
10 CSR 10-6.400 Restriction of Emission of Particulate Matter From Industrial Processes.....	7
PERMIT CONDITION 003.....	8
10 CSR 10-6.065 Voluntary Limitation(s).....	8
<b>IV. CORE PERMIT REQUIREMENTS .....</b>	<b>9</b>
<b>V. GENERAL PERMIT REQUIREMENTS.....</b>	<b>16</b>
<b>VI. ATTACHMENTS .....</b>	<b>21</b>
ATTACHMENT A .....	22
Fugitive Emission Observations .....	22
ATTACHMENT B .....	23
Opacity Emission Observations .....	23
ATTACHMENT C .....	24
Method 9 Opacity Emissions Observations .....	24
ATTACHMENT D .....	25
Inspection/Maintenance/Repair/Malfunction Log.....	25
ATTACHMENT E.....	26
Abbreviations and Acronyms.....	26

## I. Installation Description and Equipment Listing

### INSTALLATION DESCRIPTION

The installation produces wood char from a raw material which is primarily sawdust, but also includes hog fuel and wood chips. The raw material is received and stored onsite in storage piles until needed. The raw material is conveyed to a pyrolysis furnace where char is produced. Char is stored onsite in storage piles prior to shipping. The installation is a major source of CO, GHG, NO<sub>x</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, and VOC.

The installation is on the List of Named Installations found at 10 CSR 10-6.020(3)(B) Table 2. The installation is classified as item number 25; therefore, fugitive emissions count towards major source applicability.

Reported Air Pollutant Emissions, tons per year					
Pollutants	2013	2012	2011	2010	2009
PM <sub>10</sub>	81.76	79.82	106.77	46.19	25.86
PM <sub>2.5</sub>	72.85	76.39	68.32	0.04	0.09
SO <sub>x</sub>	-	0.0001	-	0.001	0.002
NO <sub>x</sub>	91.91	113.59	142.85	65.09	37.74
VOC	601.22	742.57	934.40	421.53	237.32
CO	1,553.20	1,918.40	2,413.94	1,089.25	613.29
HAP	1.05	1.29	1.63	0.73	0.41
Methanol (67-56-1)	1.05	1.29	1.63	0.73	0.41

### EMISSION UNITS WITH LIMITATIONS

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

Emission Unit	Description	Applicable Requirements
EP01	Char Furnace, 11 tph feed, 2.23 tph char, 5.6 MMBtu/hr propane	10 CSR 10-6.220, 10 CSR 10-6.400, and a Voluntary Condition
EP04	Shaker, 25 tph	10 CSR 10-6.220 & 10 CSR 10-6.400
EP05	Conveyor, 25 tph	
EP06	Conveyor, 25 tph	
EP07	Conveyor, 25 tph	
EP08	Sawdust Hopper Loading, 11 tph	
EP09	Conveyor, 11 tph	
EP11	Sawdust Hopper Loading, 25 tph	
EP12	Hopper Loadout, 25 tph	
EP13	Conveyor, 25 tph	

**EMISSION UNITS WITHOUT LIMITATIONS**

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

<b>Emission Unit</b>	<b>Description</b>
EP03	Pallet Mill Conveyor, 1.6 tph
EP10	Char Loadout, 2.23 tph
EP14	Boiler, 8.369 MMBtu/hr propane
SP01	Long Term Storage Pile, 5.0 acres
SP02	Short Term Storage Pile, 7.9 acres
EP15	Haul Road East, 0.1 miles
EP16	Char Storage Pile, 1.5 acres
EP17A	Sawdust Haul Road, 0.19 miles
EP17B	Char Haul Road, 0.12 miles

## **II. Plant Wide Emission Limitations**

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the CFR and 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.

None.

### III. Emission Unit Specific Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the CFR and 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.

<b>PERMIT CONDITION 001</b>	
10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants	
<b>Emission Unit</b>	<b>Description</b>
EP01	Char Furnace
EP04	Shaker
EP05	Conveyor
EP06	Conveyor
EP07	Conveyor
EP08	Sawdust Hopper Loading
EP09	Conveyor
EP11	Sawdust Hopper Loading
EP12	Hopper Loadout
EP13	Conveyor

**Emission Limitation:**

1. The permittee shall not cause or permit to be discharged into the atmosphere from these emission units any visible emissions with an opacity greater than 20 percent.
2. Exception: The permittee may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six minutes in any 60 minutes air contaminants with an opacity up to 60 percent.

**Monitoring:**

1. The permittee shall conduct opacity readings on these emission units using the procedures contained in EPA Test Method 22. Readings are only required when the emission units are operating and when the weather conditions allow. If no visible emissions are observed using Method 22, then no further observations would be required. For emission units with visible emissions, the permittee representative would then conduct a Method 9 observation.
2. The following monitoring schedule shall be maintained:
  - a) Weekly observations shall be conducted for a minimum of eight consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then-
  - b) Observations must be made once every two weeks for a period of eight weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then-
  - c) Observations shall be made once per month. If a violation is noted, monitoring reverts to weekly.
  - d) If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

**Recordkeeping:**

1. The permittee shall maintain records of all observation results using Attachments B & C, or equivalent forms approved by the Air Pollution Control Program, noting:
  - a) Whether any air emissions (except for water vapor) were visible from the emission units and

- b) All emission units from which visible emissions occurred.
2. The permittee shall maintain records of any equipment malfunctions and maintenance using Attachment D or an equivalent form approved by the Air Pollution Control Program.
3. The permittee shall maintain records of any 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 shall be maintained for five years.

**Reporting:**

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

<b>PERMIT CONDITION 002</b>	
10 CSR 10-6.400 Restriction of Emission of Particulate Matter From Industrial Processes	
<b>Emission Unit</b>	<b>Description</b>
EP01	Char Furnace
EP04	Shaker
EP05	Conveyor
EP06	Conveyor
EP07	Conveyor
EP08	Sawdust Hopper Loading
EP09	Conveyor
EP11	Sawdust Hopper Loading
EP12	Hopper Loadout
EP13	Conveyor

**Emission Limitation:**

The permittee shall not emit PM in excess of the limits given in the following table:

<b>Emission Unit</b>	<b>Description</b>	<b>PM Emission Limit (lb/hr)</b>
EP01	Char Furnace	20.62
EP04	Shaker	35.43
EP05	Conveyor	35.43
EP06	Conveyor	35.43
EP07	Conveyor	35.43
EP08	Sawdust Hopper Loading	20.62
EP09	Conveyor	20.62
EP11	Sawdust Hopper Loading	35.43
EP12	Hopper Loadout	35.43
EP13	Conveyor	35.43

**Compliance Demonstration:**

The following table demonstrates that the emission sources are in compliance with the regulation:

Emission Unit	MHDR (tph)	PM Emission Factor (lb/ton)	Emission Factor Source	Potential Uncontrolled PM Emission Rate (lb/hr)	PM Emission Limit (lb/hr)
EP01	11	1.78	Calculated <sup>1</sup>	19.84	20.62
EP04	25	0.36	FIRE 30700803 <sup>2</sup>	9.00	35.43
EP05	25	0.18	FIRE 30501607 <sup>3</sup>	4.33 <sup>4</sup>	35.43
EP06	25	0.18	FIRE 30501607 <sup>3</sup>	4.33 <sup>4</sup>	35.43
EP07	25	0.18	FIRE 30501607 <sup>3</sup>	4.33 <sup>4</sup>	35.43
EP08	11	0.36	FIRE 30700803 <sup>2</sup>	4.01	20.62
EP09	11	0.18	FIRE 30501607 <sup>3</sup>	1.93 <sup>4</sup>	20.62
EP11	25	0.36	FIRE 30700803 <sup>2</sup>	9.00	35.43
EP12	25	0.18	FIRE 30501607 <sup>3</sup>	4.33 <sup>4</sup>	35.43
EP13	25	0.18	FIRE 30501607 <sup>3</sup>	4.33 <sup>4</sup>	35.43

<sup>1</sup>The emission factor is based upon testing conducted on a similar Hershoff Furnace producing wood char at Royal Oak Enterprises, LLC in Monterey, TN which achieved a PM emission rate of 15.7 lb/hr and has a limited MHDR of 11 tph sawdust. In order to account for variances in the number of hearths between the two furnaces and differences in stack parameters, a 25 percent safety factor was included. The installation is limited to exclusively pyrolyzing the feed materials listed in Permit Condition 003; therefore, no additional safety factor was deemed necessary for feed constituent variances.

<sup>2</sup>The emission factor was revoked in January of 2002; however, no other representative emission factor was available.

<sup>3</sup>No emission factors were available for this source; therefore, emissions were estimated using emission factors for raw material transfer and conveying in the lime manufacturing industry.

<sup>4</sup>These sources are enclosed; therefore, the calculated PM emission rate includes 3.75% enclosure control. The control efficiency for process enclosure was obtained from AP-42 Table B.2-3.

**Monitoring/Recordkeeping/Reporting:**

The compliance demonstration shows that the emission sources are in compliance with this regulation without the aid of a control device; therefore, no additional monitoring, recordkeeping, or reporting is required at this time.

<b>PERMIT CONDITION 003</b>	
10 CSR 10-6.065 Voluntary Limitation(s)	
Emission Unit	Description
EP01	Char Furnace

**Operational Limitation:**

1. The permittee shall exclusively pyrolyze sawdust, wood dust, wood chips, and/or hog fuel in EP01 Char Furnace. Where sawdust, wood dust, hog fuel, and wood chips are defined as follows:
  - a) *Sawdust* and/or *wood dust* – a byproduct of cutting, grinding, drilling, sanding, or otherwise pulverizing wood with a saw or other tool; consisting of fine particles of wood.
  - b) *Hog fuel* – wood residue consisting of pieces ranging in size from two to five inches.
  - c) *Wood chips* – medium-sized solid material made by cutting or chopping larger pieces of wood.
2. The permittee shall not exclusively pyrolyze bark in EP01 Char Furnace. Where bark is defined as: the outermost layer of trees.

**Reporting:**

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

## IV. Core Permit Requirements

The installation shall comply with each of the following regulations or codes. Consult the appropriate sections in the CFR, the CSR, and local ordinances 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. The following is only an excerpt from the regulation or code, and is provided for summary purposes only.

### **10 CSR 10-6.045 Open Burning Requirements**

1. General Provisions. The open burning of tires, petroleum-based products, asbestos containing materials, and trade waste is prohibited, except as allowed below. Nothing in this rule may be construed as to allow open burning which causes or constitutes a public health hazard, nuisance, a hazard to vehicular or air traffic, nor which violates any other rule or statute.
2. Refer to the regulation for a complete list of allowances. The following is a listing of exceptions to the allowances:
  - a) Burning of household or domestic refuse. Burning of household or domestic refuse is limited to open burning on residential premises having not more than four dwelling units, provided that the refuse originates on the same premises.
  - b) Yard waste.
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 permittee fails to comply with the conditions or any provisions of the permit.
4. The permittee 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 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 the permittee 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(2)(N)10, the director shall not issue an open burning permit unless the permittee can demonstrate to the satisfaction of the director that the emissions from the open burning of the specified material would be less than the emissions from any other waste management or disposal method.
5. Reporting and Recordkeeping. NSPS CCCC establishes certain requirements for air curtain destructors or incinerators that burn wood trade waste. These requirements are established in §60.2245 - §60.2260. The provisions of NSPS 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 CCCC, sources shall 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 NSPS Appendix A–Test Methods, Method 9–Visual Determination of the Opacity of Emissions from Stationary Sources. The provisions of NSPS Appendix A, Method 9 promulgated as of December 23, 1971 is incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401.

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

1. In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the director within two business days, in writing, the following information:
  - a) Name and location of installation;
  - b) Name and telephone number of person responsible for the installation;
  - c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
  - d) Identity of the equipment causing the excess emissions;
  - e) Time and duration of the period of excess emissions;
  - f) Cause of the excess emissions;
  - g) Air pollutants involved;
  - h) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;
  - i) Measures taken to mitigate the extent and duration of the excess emissions; and
  - j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
2. The permittee shall submit the paragraph 1 information list to the director in writing at least ten days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within ten working days.
3. Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under §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 §§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 §§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 18 months. [10 CSR 10-

6.065(6)(B)1.A(V)] The permittee shall retain the most current operating permit issued to this installation on-site. [10 CSR 10-6.065(6)(C)1.C(II)] The permittee shall make such permit available to any Missouri Department of Natural Resources' personnel upon request. [10 CSR 10-6.065(6)(C)3.B]

**10 CSR 10-6.080 Emission Standards for Hazardous Air Pollutants and  
40 CFR Part 61 Subpart M - National Emission Standard for Asbestos**

1. The permittee shall follow the procedures and requirements of 40 CFR Part 61, Subpart M for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart M - National Emission Standard for Asbestos.
2. The permittee shall conduct monitoring to demonstrate compliance with registration, certification, notification, and Abatement Procedures and Practices standards as specified in 40 CFR Part 61, Subpart M.

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

1. The permittee shall submit full emissions report either electronically via MoEIS, which requires Form 1.0 signed by an authorized company representative, or on EIQ paper forms on the frequency specified in this rule and in accordance with the requirements outlined in this rule. Alternate methods of reporting the emissions, such as spreadsheet file, can be submitted for approval by the director.
2. The permittee may be required by the director to file additional reports.
3. Public Availability of Emission Data and Process Information. Any information obtained pursuant to the rule(s) of the Missouri Air Conservation Commission that would not be entitled to confidential treatment under 10 CSR 10-6.210 shall be made available to any member of the public upon request.
4. The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079.
5. The fees shall be payable to the Department of Natural Resources and shall be accompanied by the emissions report.
6. The permittee shall complete required reports on state supplied EIQ forms or electronically via MoEIS. Alternate methods of reporting the emissions can be submitted for approval by the director. The reports shall be submitted to the director by April 1 after the end of each reporting year. If the full emissions report is filed electronically via MoEIS, this due date is extended to May 1.
7. The reporting period shall end on December 31 of each calendar year. Each report shall contain the required information for each emission unit for the 12-month period immediately preceding the end of the reporting period.
8. The permittee shall collect, record, and maintain the information necessary to complete the required forms during each year of operation of the installation.

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

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

**10 CSR 10-6.150 Circumvention**

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

**10 CSR 10-6.170 Restriction of PM to the Ambient Air Beyond the Premises of Origin**

**Emission Limitation:**

1. The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive PM emissions to go beyond the premises of origin in quantities that the PM may be found on surfaces beyond the property line of origin. The nature or origin of the PM 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 PM emissions to remain visible in the ambient air beyond the property line of origin.
3. Should it be determined that noncompliance has occurred, the director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:
  - a) Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
  - b) Paving or frequent cleaning of roads, driveways and parking lots;
  - c) Application of dust-free surfaces;
  - d) Application of water; and
  - e) Planting and maintenance of vegetative ground cover.

**Monitoring:**

1. The permittee shall conduct inspections of its facilities sufficient to determine compliance with this regulation. If the permittee discovers a violation, the permittee shall undertake corrective action to eliminate the violation.
2. The permittee shall maintain the following monitoring schedule:
  - a) The permittee shall conduct weekly observations for a minimum of eight consecutive weeks after permit issuance.
  - b) Should no violation of this regulation be observed during this period then-
    - i) The permittee may observe once every two weeks for a period of eight weeks.
    - ii) If a violation is noted, monitoring reverts to weekly.
    - iii) Should no violation of this regulation be observed during this period then-
      - (1) The permittee may observe once per month.
      - (2) If a violation is noted, monitoring reverts to weekly.
  - c) If the permittee reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner to the initial monitoring frequency.

**Recordkeeping:**

1. The permittee shall document all readings on Attachment A, or an equivalent form approved by the Air Pollution Control Program, noting the following:
  - a) Whether air emissions (except water vapor) remain visible in the ambient air beyond the property line of origin.
  - b) Whether equipment malfunctions contributed to an exceedance.
  - c) Any violations and any corrective actions undertaken to correct the violation.

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

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

### **10 CSR 10-6.165 Restriction of Emission of Odors**

#### **This requirement is not federally enforceable.**

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour. This odor evaluation shall be taken at a location outside of the installation's property boundary.

### **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 Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the 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 40 CFR Part 82, Subpart B:
  - a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
  - b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
  - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
  - d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
  - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
  - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A - Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the MVAC, the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B - Servicing of MVACs. The term "motor vehicle" as used in 40 CFR Part 82, Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in 40 CFR Part 82, Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.
5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G - Significant New Alternatives Policy Program. *40 CFR Part 82 is Federally Enforceable Only*

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

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

## V. General Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the CFR and 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(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(6)(C)1.C General Recordkeeping and Reporting Requirements**

1. Recordkeeping
  - a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
  - b) Copies of all current operating and construction permits issued to this installation shall be kept on-site for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources' personnel upon request.
2. Reporting
  - a) All reports shall be submitted to the Air Pollution Control Program's Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
  - b) The permittee shall submit a report of all required monitoring by:
    - i) October 1st for monitoring which covers the January through June time period, and
    - ii) April 1st for monitoring which covers the July through December time period.
    - iii) Exception. Monitoring requirements which require reporting more frequently than semi-annually shall report no later than 30 days after the end of the calendar quarter in which the measurements were taken.
  - c) Each report shall identify any deviations from emission limitations, monitoring, recordkeeping, reporting, or any other requirements of the permit, this includes deviations or CAM exceedances.
  - 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 10 CSR 10-6.065(6)(C)7.A 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 semi-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(6)(C)1.D Risk Management Plan Under §112(r)**

1. 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 §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:
  - a) June 21, 1999;
  - b) Three years after the date on which a regulated substance is first listed under §68.130; or
  - c) The date on which a regulated substance is first present above a threshold quantity in a process.

#### **10 CSR 10-6.065(6)(C)1.F Severability Clause**

In the event of a successful challenge to any part of this permit, all uncontested permit conditions shall continue to be in force. All terms and conditions of this permit remain in effect pending any administrative or judicial challenge to any portion of the permit. If any provision of this permit is invalidated, the permittee shall comply with all other provisions of the permit.

#### **10 CSR 10-6.065(6)(C)1.G 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 pursuant to 10 CSR 10-6.065(6)(C)1.

**10 CSR 10-6.065(6)(C)1.H Incentive Programs Not Requiring Permit Revisions**

No permit revision will be required for any installation changes made under any approved economic incentive, marketable permit, emissions trading, or other similar programs or processes provided for in this permit.

**10 CSR 10-6.065(6)(C)1.I Reasonably Anticipated Operating Scenarios**

None.

**10 CSR 10-6.065(6)(C)3 Compliance Requirements**

1. Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
2. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation's right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
  - a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
  - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
  - d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
3. All progress reports required under an applicable schedule of compliance shall be submitted semi-annually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
  - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
  - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.
4. The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, as well as the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and Part 64 exceedances and excursions 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(6)(C)6 Permit Shield**

1. Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements as of the date that this permit is issued, provided that:
  - a) The applicable requirements are included and specifically identified in this permit, or
  - b) The permitting authority, in acting on the permit revision or permit application, determines in writing that other requirements, as specifically identified in the permit, are not applicable to the installation, and this permit expressly includes that determination or a concise summary of it.
2. Be aware that there are exceptions to this permit protection. The permit shield does not affect the following:
  - a) The provisions of §303 of the Act or §643.090, RSMo concerning emergency orders,
  - b) Liability for any violation of an applicable requirement which occurred prior to, or was existing at, the time of permit issuance,
  - c) The applicable requirements of the acid rain program,
  - d) The authority of EPA and the Air Pollution Control Program to obtain information, or
  - e) Any other permit or extra-permit provisions, terms or conditions expressly excluded from the permit shield provisions.

#### **10 CSR 10-6.065(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(6)(C)8 Operational Flexibility**

1. An installation that has been issued a Part 70 operating permit is not required to apply for or obtain a permit revision in order to make any of the changes to the permitted installation described below if the changes are not Title I modifications, the changes do not cause emissions to exceed emissions allowable under the permit, and the changes do not result in the emission of any air contaminant not previously emitted. The permittee shall notify the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, at least seven days in advance of these changes, except as allowed for emergency or upset conditions. Emissions allowable under the permit means a federally enforceable

permit term or condition determined at issuance to be required by an applicable requirement that establishes an emissions limit (including a work practice standard) or a federally enforceable emissions cap that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject.

2. §502(b)(10) changes. Changes that, under §502(b)(10) of the Act, contravene an express permit term may be made without a permit revision, except for changes that would violate applicable requirements of the Act or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting or compliance requirements of the permit.
  - a) Before making a change under this provision, the permittee shall provide advance written notice to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, describing the changes to be made, the date on which the change will occur, and any changes in emission and any permit terms and conditions that are affected. The permittee shall maintain a copy of the notice with the permit, and the Air Pollution Control Program shall place a copy with the permit in the public file. Written notice shall be provided to the EPA and the Air Pollution Control Program as above at least seven days before the change is to be made. If less than seven days notice is provided because of a need to respond more quickly to these unanticipated conditions, the permittee shall provide notice to the EPA and the Air Pollution Control Program as soon as possible after learning of the need to make the change.
  - b) The permit shield shall not apply to these changes.

#### **10 CSR 10-6.065(6)(C)9 Off-Permit Changes**

1. Except as noted below, the permittee may make any change in its permitted operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Insignificant activities listed in the application, but not otherwise addressed in or prohibited by this permit, shall not be considered to be constrained by this permit for purposes of the off-permit provisions of this section. 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 subject to any requirements under Title IV of the Act or is a Title I modification;
  - 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, 11201 Renner Blvd., Lenexa, KS 66219, no later than the next annual emissions report. This notice shall not be required for changes that are insignificant activities under 10 CSR 10-6.065(6)(B)3. 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.
  - 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; and
  - d) The permit shield shall not apply to these changes.

#### **10 CSR 10-6.020(2)(R)39 Responsible Official**

The application utilized in the preparation of this permit was signed by Mark Garnett, President. 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 permittee 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 permittee 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(6)(E)6 Reopening-Permit for Cause**

1. This permit may be reopened for cause if:
  - a) The Missouri Department of Natural Resources receives notice from EPA that a petition for disapproval of a permit pursuant to §70.8(d) has been granted, provided that the reopening may be stayed pending judicial review of that determination,
  - b) The Missouri Department of Natural Resources 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,
  - c) Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if—:
    - i) The permit has a remaining term of less than three years;
    - ii) The effective date of the requirement is later than the date on which the permit is due to expire; or
    - iii) 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,
  - d) The installation is an affected source under the acid rain program and additional requirements (including excess emissions requirements), become applicable to that source, provided that, upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the permit; or
  - e) 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(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 E contains a list of abbreviations and acronyms used throughout this permit.





**Attachment C**

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 E**  
Abbreviations and Acronyms

<b>°C</b> .....degrees Celsius	<b>Mgal</b> ..... 1,000 gallons
<b>°F</b> ..... degrees Fahrenheit	<b>MW</b> ..... megawatt
<b>AAQIA</b> ..... ambient air quality impact analysis	<b>MHDR</b> ..... maximum hourly design rate
<b>acfm</b> ..... actual cubic feet per minute	<b>MMBtu</b> .... Million British thermal units
<b>BACT</b> ..... Best Available Control Technology	<b>mmHg</b> .....millimeters mercury
<b>BMPs</b> ..... Best Management Practices	<b>MMscf</b> ..... Million standard cubic feet
<b>Btu</b> ..... British thermal unit	<b>MSDS</b> ..... Material Safety Data Sheet
<b>CAM</b> ..... Compliance Assurance Monitoring	<b>NAAQS</b> .... National Ambient Air Quality Standards
<b>CAS</b> ..... Chemical Abstracts Service	<b>NESHAPs</b> National Emissions Standards for Hazardous Air Pollutants
<b>CEMS</b> ..... Continuous Emission Monitor System	<b>NO<sub>x</sub></b> ..... nitrogen oxides
<b>CFR</b> ..... Code of Federal Regulations	<b>NSPS</b> ..... New Source Performance Standards
<b>CO</b> ..... carbon monoxide	<b>NSR</b> ..... New Source Review
<b>CO<sub>2</sub></b> ..... carbon dioxide	<b>PM</b> ..... particulate matter
<b>CO<sub>2e</sub></b> ..... carbon dioxide equivalent	<b>PM<sub>2.5</sub></b> ..... particulate matter less than 2.5 microns in aerodynamic diameter
<b>COMS</b> ..... Continuous Opacity Monitoring System	<b>PM<sub>10</sub></b> ..... particulate matter less than 10 microns in aerodynamic diameter
<b>CSR</b> ..... Code of State Regulations	<b>ppm</b> ..... parts per million
<b>dscf</b> ..... dry standard cubic feet	<b>PSD</b> ..... Prevention of Significant Deterioration
<b>dscm</b> .....dry standard cubic meter	<b>psi</b> .....pounds per square inch
<b>EIQ</b> ..... Emission Inventory Questionnaire	<b>PTE</b> ..... potential to emit
<b>EP</b> ..... Emission Point	<b>RACT</b> ..... Reasonable Available Control Technology
<b>EPA</b> ..... Environmental Protection Agency	<b>RAL</b> ..... Risk Assessment Level
<b>EU</b> ..... Emission Unit	<b>SCC</b> ..... Source Classification Code
<b>FGD</b> ..... flue gas desulfurization	<b>scfm</b> ..... standard cubic feet per minute
<b>FIRE</b> .....EPA’s Factor Information Retrieval System	<b>SCR</b> ..... selective catalytic reduction
<b>fps</b> ..... feet per second	<b>SIC</b> ..... Standard Industrial Classification
<b>ft</b> ..... feet	<b>SIP</b> ..... State Implementation Plan
<b>GACT</b> ..... Generally Available Control Technology	<b>SMAL</b> ..... Screening Model Action Levels
<b>GHG</b> ..... Greenhouse Gas	<b>SO<sub>x</sub></b> ..... sulfur oxides
<b>gpm</b> ..... gallons per minute	<b>SO<sub>2</sub></b> ..... sulfur dioxide
<b>gr</b> ..... grains	<b>tph</b> ..... tons per hour
<b>GWP</b> ..... Global Warming Potential	<b>tpy</b> ..... tons per year
<b>HAP</b> ..... Hazardous Air Pollutant	<b>VMT</b> ..... vehicle miles traveled
<b>hr</b> ..... hour	<b>VOC</b> ..... Volatile Organic Compounds
<b>HP</b> ..... horsepower	
<b>lb</b> ..... pound	
<b>lb/hr</b> ..... pounds per hour	
<b>MACT</b> ..... Maximum Achievable Control Technology	
<b>µg/m<sup>3</sup></b> ..... micrograms per cubic meter	
<b>m/s</b> ..... meters per second	
<b>mg</b> .....milligrams	

## STATEMENT OF BASIS

### 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. Part 70 Operating Permit Application, received December 23, 2011
2. 2013, 2012, 2011, 2010, and 2009 Emissions Inventory Questionnaires
3. U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition
4. WebFIRE: <http://cfpub.epa.gov/webfire/index.cfm?action=fire.SearchEmissionFactors>
5. Construction Permit 0979-001

### Other Air Regulations Determined Not to Apply to the Operating Permit

The Air Pollution Control Program has determined the following requirements to not be applicable to this installation at this time for the reasons stated.

10 CSR 10-6.100 *Alternate Emission Limits* is not applicable to the installation and has not been applied within this permit. The installation is located in an ozone attainment area.

10 CSR 10-6.260 *Restriction of Emission of Sulfur Compounds* is not applicable to the installation and has not been applied within this permit. 10 CSR 10-6.260(1)(A)2 exempts combustion equipment that exclusively uses liquefied petroleum gas.

### Construction Permits

Construction Permit 0979-001, Issued September 1, 1979:

- ♦ This construction permit was for the installation of EP01 Char Furnace.
- ♦ This permit required representative samples of the material being pyrolyzed and the char being produced be tested for ash content within 90 days of startup of EP01. This testing was completed in 1979.

### NSPS Applicability

40 CFR Part 60, Subpart Dc – *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units* is not applicable to the installation and has not been applied within this permit. §60.40c(a) states that this regulation applies to boilers greater than or equal to 10 MMBtu/hr. EP14 Boiler is rated at 8.369 MMBtu/hr.

### MACT Applicability

40 CFR Part 63, Subpart JJJJJ – *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources* is not applicable to the installation and has not been applied within this permit. Propane is included in the definition of natural gas at §63.11237. §63.11195(e) exempts gas-fired boilers.

### National Emission Standards for Hazardous Air Pollutants Applicability

40 CFR Part 61, Subpart M – *National Emission Standards for Asbestos* is applicable to the installation and has been applied within this permit (see Section IV. Core Permit Requirements).

### CAM Applicability

40 CFR Part 64 - *Compliance Assurance Monitoring* applies to each pollutant specific emission unit that:

- Is subject to an emission limitation or standard, and
- Uses a control device to achieve compliance, and
- Has pre-control emissions that exceed or are equivalent to the major source threshold.

CAM is not applicable because none of the pollutant-specific emission units uses a control device to achieve compliance with a relevant standard.

### Greenhouse Gas Emissions

No greenhouse gas emission factors were available for the pyrolysis of wood to produce char; therefore, the installation is conservatively being labeled a major source.

### Updated Potential to Emit for the Installation

Pollutant	Potential to Emit (tpy) <sup>1</sup>
CO	2,178.30
CO <sub>2</sub> e	Major
NO <sub>x</sub>	137.34
PM <sub>10</sub>	301.71
PM <sub>2.5</sub>	290.04
SO <sub>x</sub>	1.89
VOC	842.19
HAP	4.89
Methanol (67-56-1)	4.88

<sup>1</sup>Each emission unit was evaluated at 8,760 hours of uncontrolled annual operation unless otherwise noted:

- The following emission units were given 3.75% PM<sub>10</sub> and PM<sub>2.5</sub> control efficiencies for being enclosed: EP03 Pallet Mill Conveyor, EP05 Conveyor, EP06 Conveyor, EP07 Conveyor, EP09 Conveyor, EP12 Hopper Loadout, and EP13 Conveyor.

### Other Regulatory Determinations

10 CSR 10-6.220 *Restriction of Emission of Visible Air Contaminants* is applicable to the installation and has been applied in Permit Condition 001. The following emission units are subject to this regulation, but were not included in Permit Condition 001 for the following reasons:

- EP03 Pallet Mill Conveyor, EP10 Char Loadout, and EP14 Boiler each have potential PM<sub>10</sub> emissions of less than 0.5 lb/hr; therefore, no monitoring, recordkeeping, or reporting is required for these emission units at this time.
- SP01 Long Term Storage Pile, SP02 Short Term Storage Pile, EP15 Haul Road East, EP16 Char Storage Pile, EP17A Sawdust Haul Road, and EP17B Char Haul Road are fugitive emission sources. Fugitive emission sources are regulated by 10 CSR 10-6.170.

10 CSR 10-6.400 *Restriction of Emission of Particulate Matter From Industrial Processes* is applicable to the installation and has been applied in Permit Condition 002. The following emission units are exempt from this regulation:

- EP03 Pallet Mill Conveyor, EP10 Char Loadout, and EP14 Boiler each have potential PM<sub>10</sub> emissions of less than 0.5 lb/hr and are exempt per 10 CSR 10-6.400(1)(B)12.

- ◆ SP01 Long Term Storage Pile, SP02 Short Term Storage Pile, EP15 Haul Road East, EP16 Char Storage Pile, EP17A Sawdust Haul Road, and EP17B Char Haul Road are fugitive emission sources and are exempt per 10 CSR 10-6.400(1)(B)7.

#### Permit Condition 003

This voluntary condition has been included in the permit to ensure the validity of using the Royal Oak Enterprises, LLC Monterey, TN particulate performance test data. If the installation chooses to conduct their own stack testing using other materials, this condition may be revised. The installation is prohibited from exclusively pyrolyzing bark as the TN facility does not exclusively pyrolyze bark and AP-42 Section 1.6 indicates bark results in higher particulate emissions than other forms of wood. The Air Pollution Control Program is aware that sawdust, wood dust, hog fuel, and wood chips may contain a small quantity of bark (less than six percent); therefore, Operational Limitation 2 should be interpreted as limiting the installation from pyrolyzing material containing greater than 10 percent bark.

#### Response to Public Comments

The draft Part 70 Operating Permit, Project 2011-12-071, for Garnett Wood Products – Char Plant (091-0038) was placed on public notice as of July 22, 2014, for a 30-day comment period. The public notice was published on the Department of Natural Resources' Air Pollution Control Program's web page at: <http://www.dnr.mo.gov/env/apcp/PermitPublicNotices.htm> on Tuesday, July 22, 2014. The draft permit did received one comment from R. L. Cheever, EPA Region 7 Air Permitting and Compliance Branch Environmental Engineer, during its public notice period.

#### Comment:

The Statement of Basis includes a discussion on Permit Condition 003 (Statement of Basis page 3) which contains reference to specific conditions and definitions. In order for these conditions to be practically enforceable, they must appear in the body of the permit. The Statement of Basis provides the legal and factual basis for the permit and is not an enforceable.

Therefore, EPA suggests that MDNR consider including the discussion in the Statement of Basis for Permit Condition 003 within Permit Condition 003.

#### Missouri Air Pollution Control Program Response to Comment:

The permit has been modified as suggested.

#### 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, P.E.  
Environmental Engineer III

Mr. Mark Garnett  
Garnett Wood Products – Char Plant  
P.O. Box 525  
Brandsville, MO 65688

Re: Garnett Wood Products – Char Plant, 091-0038  
Permit Number: **OP2014-028**

Dear Mr. Garnett:

Enclosed with this letter is your Part 70 operating permit. Please review this document carefully. Operation of your installation in accordance with the rules and regulations cited in this document is necessary for continued compliance. It is very important that you read and understand the requirements contained in your permit.

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

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

Sincerely,

**AIR POLLUTION CONTROL PROGRAM**

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

MJS:ahk

Enclosures

c: Southeast Regional Office  
PAMS File: 2011-12-071