



# INTERMEDIATE STATE PERMIT TO OPERATE

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

**Intermediate Operating Permit Number:** OP2014-004  
**Expiration Date:** FEB 25 2019  
**Installation ID:** 071-0087  
**Project Number:** 2013-06-016

**Installation Name and Address**

Bull Moose Tube Company  
406 E. Industrial Drive  
Gerald, MO 63037-1622  
Franklin County

**Parent Company's Name and Address**

Bull Moose Tube Company  
1819 Clarkson Road  
Chesterfield, MO 63017

**Installation Description:**

Bull Moose Tube Company produces fusion welded steel tubing from purchased material. The installation is a synthetic minor source of VOC and HAP.

**FEB 26 2014**

Effective Date

  
Director or Designee  
Department of Natural Resources

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## I. Installation Description and Equipment Listing

### INSTALLATION DESCRIPTION

Bull Moose Tube Company produces fusion welded steel tubing from purchased material.

The installation has accepted voluntary limitations on VOC and HAP to obtain this Intermediate Operating Permit.

The installation is not on the List of Named Installations found at 10 CSR 10-6.020(3)(B) Table 2; therefore, fugitive emissions are not counted toward major source applicability.

Reported Air Pollutant Emissions (tpy)					
Pollutants	2012	2011	2010	2009	2008
PM <sub>10</sub>	0.64	0.64	0.31	0.31	0.35
PM <sub>2.5</sub>	0.09	0.09	0.05	0.05	0.06
SO <sub>x</sub>	0.004	0.004	0.002	0.002	0.004
NO <sub>x</sub>	0.48	0.48	0.31	0.31	0.55
VOC	26.06	26.06	21.19	21.19	18.70
CO	0.28	0.28	0.18	0.18	0.32
HAP	-	-	-	-	-

### EMISSION UNITS WITH LIMITATIONS

The following list provides a description of the emission sources at this installation which emit air pollutants and are identified as having emission source-specific emission limitations. These emission sources are also subject to the plantwide emission limitations.

Emission Unit #	Description of Emission Unit
EP2	Tube coating process
EP6	Rust Preventative Application
EP4	Parts Washers

### EMISSION UNITS WITHOUT LIMITATIONS

The following list provides a description of the emission sources at the installation which do not have emission source-specific limitations at the time of permit issuance. These emission sources are subject to the plantwide emission limitations.

#### Description of Emission Source

Cold Cleaning of Slit Coils (EP1)  
 Haul Roads (EP5)  
 Space Heating and Fork Lifts Using Propane, 5.64 MMBtu/hr total (EP7)  
 Two Table Saws (Whirlwind)  
 One Radial Arm Saw (DeWalt)  
 Dado Saw for making grooves

## 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 on the date of permit issuance.

### PERMIT CONDITION PW001

10 CSR 10-6.020(2)(I)23 and 10 CSR 10-6.065(5)(C)2 Voluntary Limitation(s)

#### Emission Limitations:

1. The permittee shall emit less than 10.0 tons of any HAP and less than 25.0 tons of any combination of HAPs from the entire installation in any consecutive 12-month period.
2. The permittee shall emit less than 100.0 tons of VOC from the entire installation in any consecutive 12-month period.

#### Alternative Materials:

1. When considering using a new material that is different than the material(s) currently in use, the permittee shall calculate the potential emissions of VOC and each individual HAP from the use of the new material
2. The permittee shall apply for and obtain a construction permit prior to using any new material that:
  - a) Increases potential emissions of VOC by 2.75 lb/hr or more.
  - b) Increases potential emissions of an individual HAP by more than the individual HAP's screening model action level (SMAL), available at: <http://www.dnr.mo.gov/env/apcp/docs/cp-hapsmaltbl6.pdf>.

#### Monitoring/Recordkeeping:

1. The permittee shall maintain accurate records of monthly and 12-month rolling total VOC and HAP emissions. Attachments E, F, and G, or equivalent forms approved by the Air Pollution Control Program shall be used to demonstrate compliance with the emission limit.
2. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
3. All records shall be maintained for five years.

#### Reporting:

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 limitation established by this permit condition.
2. Reports of any deviations from the requirements of this permit condition shall be submitted in the annual monitoring report and compliance certification required by Section V of this permit.

### III. Emission Unit Specific Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the CFR and 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>PERMIT CONDITION 001</b>		
10 CSR 10-6.060 Construction Permits Required Construction Permit 112001-027, Issued November 29, 2001		
Emission Unit	Description	Manufacturer/Model #
EP2	Automatic spray unit equipped with six spray guns, a diaphragm pump, and paint reservoir, constructed 2001; controlled by a fabric filter	Dubois/UVSP-6

**Emission Limitations:**

1. The permittee shall not discharge into the atmosphere from this tube coating process (EP2) VOC in excess of 40.0 tons in any consecutive 12-month period. [Special Condition 1.A.]
2. The permittee shall control particulate emissions from the tube coating process (EP2) using fabric filters as specified in the permit application. These filters shall be maintained in accordance with the manufacturer’s specifications. Replacement filters shall be kept on hand at all times. [Special Condition 2]

**Monitoring/Recordkeeping:**

1. The permittee shall maintain an accurate record of VOC emitted into the atmosphere from the tube coating process (EP2). The permittee shall record the monthly and rolling 12-month totals of VOC emissions from this tube coating process. [Special Condition 1.B.]
2. Attachment H or an equivalent form approved by the Air Pollution Control Program shall be used for this purpose. The permittee shall maintain all records required by this permit for not less than five years and shall make them available immediately to any Missouri Department of Natural Resources’ personnel upon request. [Special Condition 1.C.]

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

<b>PERMIT CONDITION 002</b>		
10 CSR 10-6.220 Restriction of Visible Air Contaminants		
Emission Unit	Description	Manufacturer/Model #
EP2	Automatic spray unit equipped with six spray guns, a diaphragm pump, and paint reservoir, constructed 2001; controlled by a fabric filter	Dubois/UVSP-6

**Emission Limitations:**

1. The permittee shall not cause or permit emissions to be discharged into the atmosphere from any new source any visible emissions with an opacity greater than 20 percent.

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

**Monitoring:**

1. The permittee shall conduct visible emissions readings on this emission unit using the procedures contained in U.S. EPA Test Method 22. The permittee is only required to take readings when the emission unit is operating and when the weather conditions allow. If the permittee observes no visible emissions using these procedures, then no further observations are required. For emission units with visible emissions, the source representative would then conduct a Method 9 observation.
2. The permittee must maintain the following monitoring schedule:
  - a) The permittee shall conduct weekly observations for a minimum of eight consecutive weeks after permit issuance.
  - b) Should the permittee observe no violations of this regulation 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.
3. If at the time of this operating permit issuance the permittee has already progressed to conducting observations once every two weeks or once per month, the permittee may continue from that point forward in the established monitoring schedule; however, if a violation is noted the permittee shall revert back to weekly monitoring.
4. 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 Attachment B (or an equivalent form 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, which may contribute to visible emissions using Attachment D or an equivalent form approved by the Air Pollution Control Program.
3. The permittee shall maintain records of all U.S. EPA Method 9 opacity tests performed using Attachment C or an equivalent form approved by the Air Pollution Control Program.

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

<b>PERMIT CONDITION 003</b>		
10 CSR 10-5.330 Control of Emissions From Industrial Surface Coating Operations		
Emission Unit	Description	Manufacturer/Model #
EP2	Automatic spray unit equipped with six spray guns, a diaphragm pump, and paint reservoir, constructed 2001; controlled by a fabric filter	Dubois/UVSP-6
EP6	Rust preventative application, Flow coat	Unknown

**Emission Limitation**

The permittee shall not cause, allow, or permit the discharge into the ambient air of any VOCs in excess of the following, as delivered to the coating applicator(s): [10 CSR 10-5.330(3)(J)2.B]

<b>Metal Parts and Products Coatings</b>		
Coating Category	Emission Limit in pounds of VOC per gallon of coating (minus water and exempt compounds)	
	Air Dried	Baked
General, One Component	2.8	2.3
General, Multi Component	2.8	2.3
Camouflage	3.5	3.5
Clear Coat	4.3	4.3
Electric-Insulating Varnish	3.5	3.5
Etching Filler	3.5	3.5
Extreme High Gloss	3.5	3.0
Extreme Performance	3.5	3.0
Heat Resistant	3.5	3.0
High Performance Architectural	6.2	6.2
High Temperature	3.5	3.5
Metallic	3.5	3.5
Military Specification	2.8	2.3
Mold Seal	3.5	3.5
Pan Backing	3.5	3.5
Prefabricated Architectural	3.5	2.3
Pretreatment Coatings	3.5	3.5
Repair and Touch Up	3.5	3.0
Silicone Release	3.5	3.5
Solar Absorbent	3.5	3.0
Vacuum Metalizing	3.5	3.5
Drum, New, Exterior	2.8	2.8
Drum, New, Interior	3.5	3.5
Drum, Reconditioned, Exterior	3.5	3.5
Drum, Reconditioned, Interior	4.2	4.2

Note: At the time of permit issuance the permittee used a Valspar WLA2079 coating which would fall under general, one component category and a Valspar WLC0129 coating which is a clear coat. Only one of these two coatings is applied at a time. Both are air dried. The rust preventative coating is a clear coat which is air dried.

**Operational Limitations:**

1. The permittee shall use one or a combination of the following equipment for coating application:  
 [10 CSR 10-5.330(3)(J)4]

- a) Electrostatic equipment
- b) HVLP spray equipment
- c) Flow coating
- d) Roller coating
- e) Dip coating, including electrode-position
- f) Airless spray
- g) Air-assisted airless spray
- h) Ink jet technology
- i) Other coating application method capable of achieving a transfer efficiency equivalent or better than achieved by HVLP spraying.

**Work Practice Standards:**

1. The permittee shall use work practices to minimize VOC emissions from solvent storage, mixing operations, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not be limited to, the following: [10 CSR 10-5.330(3)(J)5]
  - a) Store all VOC-containing coatings, thinners, and cleaning materials in closed containers
  - b) Ensure that mixing and storage containers used for VOC-containing coatings, thinners, coating related waste, and cleaning materials are kept closed at all times except when depositing or removing these materials
  - c) Minimize spills of VOC-containing coatings, thinners, and cleaning materials
  - d) Clean up spills immediately
  - e) Convey any coatings, thinners, and cleaning materials in closed containers or pipes from one location to another
  - f) Minimize VOC emissions from the cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers

**Monitoring:**

The permittee shall demonstrate compliance with the emission limitation by using compliant materials. The permittee shall maintain a MSDS or product specification sheet for each material indicating the VOC content of the material, expressed as pounds of VOC per gallon of coating (minus water and exempt compounds). If the MSDS or product specification sheet does not list the VOC content in pounds of VOC per gallon of coating (minus water and exempt compounds), the permittee shall use the equation at 10 CSR 10-5.330(5)(C)1.A to determine the VOC content in pounds of VOC per gallon of coating (minus water and exempt compounds).

**Recordkeeping:**

1. The permittee shall keep the following records: [10 CSR 10-5.330(4)(A)]
  - a) Current list of coatings used and the VOC content as applied.
  - b) Annual VOC emissions from surface coating equipment cleaning.
2. Records such as daily production rates may be substituted for actual daily coating use measurements provided the permittee submits a demonstration, approved by the director, that these records are adequate for the purposes of 10 CSR 10-5.330. [10 CSR 10-5.330(4)(B)]
3. All records shall be maintained for a minimum of five years.
4. These records shall be made available to Department of Natural Resources' personnel upon request.

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

<b>PERMIT CONDITION 004</b>		
10 CSR 10-5.300 Control of Emissions From Solvent Metal Cleaning		
<b>Emission Unit</b>	<b>Description</b>	<b>Manufacturer/Model #</b>
EP4	Cold Cleaning in Parts Washers	Dubois/UVSP-6

**Emission Limitations:**

1. The permittee shall not operate a cold cleaner using a solvent with a vapor pressure greater than 1.0 mm Hg at 20°C.
2. Exception: The permittee may use an alternative method for reducing cold cleaning emissions if the level of emission control is equivalent to or greater than the requirements listed above. The director must approve the alternative method.

**Operational Limitation/Equipment Specifications:**

1. Each cold cleaner shall have a cover which prevents the escape of solvent vapors from the solvent bath while in the closed position, or an enclosed reservoir which limits the escape of solvent vapors from the solvent bath whenever parts are not being processed in the cleaner.
2. When one or more of the following conditions exist, the design of the cover shall be such that it can be easily operated with one hand such that minimal disturbing of the solvent vapors in the tank occurs. (For covers larger than ten square feet, this shall be accomplished by either mechanical assistance such as spring loading or counter weighing or by power systems):
  - a) The solvent vapor pressure is greater than 0.3 psi measure at 37.8°C (100°F), such as in mineral spirits.
  - b) The solvent is agitated; or
  - c) The solvent is heated.
3. Each cold cleaner shall have a drainage facility which will be internal so that parts are enclosed under the cover while draining.
4. If an internal drainage facility cannot fit into the cleaning system and the solvent vapor pressure is less than 0.6 psi measured at 37.8°C (100°F), then the cold cleaner shall have an external drainage facility which provides for the solvent to drain back into the solvent bath.
5. Solvent sprays, if used, shall be a solid fluid stream (not a fine, atomized or shower-type spray) and at a pressure which does not cause splashing above or beyond the freeboard.
6. A permanent conspicuous label summarizing the operating procedures shall be affixed to the equipment or in a location readily visible during operation of the equipment.
7. Any cold cleaner which uses a solvent that has a solvent vapor pressure greater than 0.6 psi measured at 37.8°C (100°F) or is heated above 48.9°C (120°F), must use one of the following control devices:
  - a) A freeboard ratio of at least 0.75;
  - b) Water cover (solvent must be insoluble in and heavier than water); or
  - c) Other control systems with a mass balance demonstrated overall VOC emissions reduction efficiency greater than or equal to 65 percent. These control systems must receive approval from the director prior to their use.

8. Each cold cleaner shall be operated as follows:
  - a) Cold cleaner covers shall be closed whenever parts are not being handled in the cleaners or the solvent must drain into an enclosed reservoir except when performing maintenance or collecting solvent samples.
  - b) Clean parts shall be drained in the freeboard area for at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts shall be positioned so that the solvent drains directly back to the cold cleaner.
  - c) Whenever a cold cleaner fails to perform within the operating parameters established by this regulation, the unit shall be shut down immediately and shall remain shut down until trained service personnel are able to restore operation within the established operating procedures.
  - d) Solvent leaks shall be repaired immediately or the cleaner shall be shut down and leaks secured until the leaks are repaired.
  - e) Any waste material removed from a cold cleaner shall be disposed of by one of the following methods in accordance with the Missouri Hazardous Waste Management Commission Rules codified as 10 CSR 25, as applicable:
    - i) Reduction of the waste material to less than 20 percent VOC solvent by distillation and proper disposal of the still bottom waste, or
    - ii) Stored in closed containers for transfer to a contract reclamation service or disposal facility approved by the director.
    - iii) Waste solvent shall be stored in covered containers only.
9. Operators must be trained as follows:
  - a) Only persons trained in at least the operation and equipment requirements specified in this rule for their particular solvent metal cleaning process shall be permitted to operate this equipment;
  - b) The supervisor of any person who operates a solvent metal cleaning process shall receive equivalent or greater operational training than the operators; and
  - c) Refresher training shall be given to all solvent metal cleaning equipment operators at least once every 12 month period.

**Monitoring:**

The permittee shall monitor the throughputs of the solvents monthly and maintain material safety data sheets of the cleanup solvents used at the installation.

**Recordkeeping:**

1. The permittee shall maintain the following records for each purchase of cold cleaner solvent using Attachment J or an equivalent form approved by the Air Pollution Control Program:
  - a) Name and address of the solvent supplier.
  - b) Date of purchase.
  - c) Type of solvent purchased.
  - d) Vapor pressure of solvent in mm Hg at 20°C or 68°F.
2. The permittee shall keep monthly inventory records of solvent types and amounts purchased and solvent consumed. The records shall include all types and amounts of solvent containing waste material transferred to either a contract reclamation service or to a disposal installation and all amounts distilled on the premises using Attachment I or an equivalent form approved by the Air Pollution Control Program. The record also shall include maintenance and repair logs that occurred on the cold cleaner using Attachment D or an equivalent form approved by the Air Pollution Control Program.

3. The permittee shall keep training records of solvent metal cleaning for each employee on an annual basis using Attachment K or an equivalent form approved by the Air Pollution Control Program.
4. 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 limitation established by this permit condition.
2. The permittee shall report any deviations from the requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

## IV. Core Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the CFR, CSR, and local ordinances for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect on the date of permit issuance. The following is only an excerpt from the regulation or code, and is provided for summary purposes only.

### 10 CSR 10-6.045 Open Burning Requirements

1. General Provisions. The open burning of tires, petroleum-based products, asbestos containing materials, and trade waste is prohibited, except as allowed below. Nothing in this rule may be construed as to allow open burning which causes or constitutes a public health hazard, nuisance, a hazard to vehicular or air traffic, nor which violates any other rule or statute.
2. Refer to the regulation for a complete list of allowances. The following is a listing of exceptions to the allowances:
  - a) Burning of household or domestic refuse. Burning of household or domestic refuse is limited to open burning on a residential premises having not more than four dwelling units, provided that the refuse originates on the same premises, with the following exception:
    - i) St. Louis metropolitan area. The open burning of household refuse is prohibited.
  - b) Yard waste, with the following exception:
    - i) 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 16 ft<sup>2</sup>. 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 permittee fails to comply with the conditions or any provisions of the permit.
4. Bull Moose Tube 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 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 Bull Moose Tube 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(2)(N)11, the director shall not issue a permit under this section 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 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 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.

[§6.065(5)(B)1.A(III)] The permittee shall retain the most current operating permit issued to this installation on-site. [§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. [§6.065(5)(C)(1) and (6)(C)3.B]

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

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

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

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

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

1. The permittee shall submit full emissions report either electronically via MoEIS, which requires Form 1.0 signed by an authorized company representative, or on EIQ paper forms on the frequency specified in this rule and in accordance with the requirements outlined in 10 CSR 10-6.110. Alternate methods of reporting the emissions, such as spreadsheet file, can be submitted for approval by the director.
2. The permittee may be required by the director to file additional reports.
3. Public Availability of Emission Data and Process Information. Any information obtained pursuant to the rule(s) of the Missouri Air Conservation Commission that would not be entitled to confidential treatment under 10 CSR 10-6.210 shall be made available to any member of the public upon request.
4. The permittee shall submit a full EIQ for the 2014, 2017, and 2020 reporting years. In the interim years the installation may submit a Reduced Reporting Form; however, if the installation's emissions increase or decrease by more than five tons when compared to their last submitted full EIQ, the installation shall submit a full EIQ rather than a Reduced Reporting Form.
5. In addition to the EIQ submittal schedule outlined above, any permit issued under 10 CSR 10-6.060(5) or (6) triggers a requirement that a full EIQ be submitted in the first full calendar year after the permitted equipment initially operates.
6. The fees shall be payable to the Department of Natural Resources and shall be accompanied by the emissions report.
7. 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.

8. 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.
9. 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 its equivalent, 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 10-5.040 Use of Fuel in Hand-Fired Equipment Prohibited**

It shall be unlawful to operate any hand-fired fuel-burning equipment in the St. Louis, Missouri metropolitan area. This regulation shall apply to all fuel-burning equipment including, but not limited to, furnaces, heating and cooking stoves and hot water furnaces. It shall not apply to wood-burning fireplaces and wood-burning stoves in dwellings, nor to fires used for recreational purpose, nor to fires used solely for the preparation of food by barbecuing. Hand-fired fuel-burning equipment is any stove, furnace, or other fuel-burning device in which fuel is manually introduced directly into the combustion chamber.

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

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

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

**This requirement is not federally enforceable.**

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

**10 CSR 10-5.240 Additional Air Quality Control Measures May be Required When Sources Are Clustered in a Small Land Area**

1. The Air Conservation Commission may prescribe more restrictive air quality control requirements that are more restrictive and more extensive than provided in regulations of general application for:
  - a) Areas in which there are one or more existing sources and/or proposed new sources of PM in any circular area with a diameter of two miles (including sources outside metropolitan area) from which the sum of particulate emissions allowed from these sources by regulations of general application are or would be greater than 2,000 tpy or 500 lb/hr.
  - b) Areas in which there are one or more existing sources and/or proposed new sources of SO<sub>2</sub> in any circular area with a diameter of two miles from which the sum of SO<sub>2</sub> emissions from these sources allowed by regulations of general application are or would be greater than 1,000 tons for any consecutive three months or 1,000 lb/hr.

**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**

**This requirement is not state enforceable.**

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*.

#### **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 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, §(5)(E)2 and §(6)(C)1.B Permit Duration**

This permit is issued for a term of five years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed. If timely and complete application for a permit renewal is submitted, but the permitting authority fails to take final action to issue or deny the renewal permit before the end of the term of the previous permit, the previous permit shall not expire until the renewal permit is issued or denied.

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

1. Recordkeeping
  - a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
  - b) Copies of all current operating and construction permits issued to this installation shall be kept on-site for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources' personnel upon request.
2. Reporting
  - a) All reports shall be submitted to the Air Pollution Control Program's Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
  - b) The permittee shall submit a report of all required monitoring by:
    - i) April 1st for monitoring which covers the January through December time period.
    - ii) Exception. Monitoring requirements which require reporting more frequently than annually shall report no later than 30 days after the end of the calendar quarter in which the measurements were taken.
  - c) Each report shall identify any deviations from emission limitations, monitoring, recordkeeping, reporting, or any other requirements of the permit.
  - d) Submit supplemental reports as required or as needed. Supplemental reports are required no later than ten days after any exceedance of any applicable rule, regulation or other restriction. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
    - i) Notice of any deviation resulting from an emergency (or upset) condition as defined in 10 CSR 10-6.065(6)(C)7 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 §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(5)(C)1.A General Requirements**

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

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

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

None.

**10 CSR 10-6.065, §(5)(B)4; §(5)(C)1, §(6)(C)3.B; and §(6)(C)3.D; and §(5)(C)3 and §(6)(C)3.E.(I) – (III) and (V) – (VI) Compliance Requirements**

1. Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
2. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation's right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
  - a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
  - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
  - d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
3. All progress reports required under an applicable schedule of compliance shall be submitted semi-annually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
  - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
  - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.
4. The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to the Air Pollution Control Program'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 recordkeeping requirements, increase the emissions above major source level) do not qualify for off-permit changes.
  - b) The permittee must provide written notice of the change to the Air Pollution Control Program'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 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)39 Responsible Official**

The application utilized in the preparation of this permit was signed by Terry Rowles, Chief Operating Officer. 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 §(5)(E)4 and §(6)(E)6.A(III)(a)-(c) Reopening-Permit for Cause**

1. This permit may be reopened for cause if:
  - a) 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,
  - b) 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,
  - c) 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 L contains a list of abbreviations and acronyms used throughout this permit.





**Attachment C**  
 Method 9 Opacity Observations

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 L**  
Abbreviations and Acronyms

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

# 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 18 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 4, 2013
- 2) 2012 Emissions Inventory Questionnaire, received February 8, 2013
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition
- 4) Construction Permit 012000-014, Issued November 29, 2001

## **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 10-5.455, Control of Emissions from Solvent Cleanup Operations*

This rule does not apply because the solvent cleaning operations at the facility are cold cleaners. [10 CSR 10-5.455(1)(C)1]

### *10 CSR 10-6.260, Restriction of Emission of Sulfur Compounds*

This rule does not apply to the space heaters because they are fueled by propane. [10 CSR 10-6.260(1)(A)2]

## **Construction Permits**

Construction Permit 012000-014, Issued November 29, 2001

Bull Moose Tube Company proposes to construct a new Dubois model coating machine to replace the existing tube-coating machine at this facility. The new machine is an automatic spray paint unit consisting of six spray guns, a diaphragm pump, paint reservoir and air pollution filter housing. This new line will replace the Ultra-Violet Curing System and will be located in Mill 5. The end product of this coating line is used in overhead sprinkler systems. All special conditions are included as Permit Condition 001.

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

None

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

40 CFR Part 63, Subpart MMMM — *National Emission Standards for HAPs for Surface Coating of Miscellaneous Metal Parts and Products*

This regulation applies to surface coating of metal parts and products at major sources of HAPs. The installation is not a major source of HAPs, therefore this rule does not apply.

40 CFR Part 63, Subpart HHHHHH — *National Emission Standards for HAPs: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources*

This regulation applies to area sources involved in any of the following activities:

- (a) Paint stripping operations that involve the use of chemical strippers that contain methylene chloride, Chemical Abstract Service number 75092, in paint removal processes;
- (b) Autobody refinishing operations that encompass motor vehicle and mobile equipment spray-applied surface coating operations;
- (c) Spray application of coatings containing compounds of chromium, lead, manganese, nickel, or cadmium, collectively referred to as the target HAP to any part or product made of metal or plastic, or combinations of metal and plastic that are not motor vehicles or mobile equipment.

This installation does not perform these activities; therefore this regulation does not apply.

40 CFR Part 63, Subpart T – *National Emission Standards for Halogenated Solvent Cleaning*

This regulation does not apply to the parts washer because it does not use any of the materials detailed in the applicability section of the rule.

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

**Greenhouse Gas Emissions**

On May 13, 2010, EPA issued the GHG Tailoring Rule which set the major source threshold for CO<sub>2</sub>e to be 100,000 tons per year within 40 CFR Part 70. As of July 1, 2011, all Title V operating permits are required to include GHG emissions. Potential emissions of greenhouse gases (CO<sub>2</sub>e) for this installation are calculated to be 3,360.95 tons, classifying the installation as a minor source of GHGs.

Should the installation's actual emissions exceed the 25,000 metric ton threshold, it would be subject to 40 CFR Part 98 - *Mandatory Greenhouse Gas Reporting Rule*. In addition, Missouri regulations do not require the installation to report CO<sub>2</sub> emissions in their Missouri Emissions Inventory Questionnaire; therefore, the installation's actual CO<sub>2</sub> emissions were not included within this permit.

**Installation Potential to Emit**

<b>Pollutant</b>	<b>Unconditioned Potential to Emit (tons per year)</b>	<b>Conditioned Potential to Emit (tons per year)</b>
CO	2.04	N/A
CO <sub>2e</sub>	3,360.95	N/A
HAP	0.10	<25.0
NO <sub>x</sub>	3.53	N/A
PM <sub>10</sub>	1.39	N/A
PM <sub>25</sub>	0.19	N/A
SO <sub>x</sub>	0.03	N/A
VOC	143.80	<100.0

The potential to emit is based upon 8,760 hours of uncontrolled annual emissions unless otherwise noted:

- ◆ EP2 is required to operate a fabric filter by Permit Condition 001 and was given 98.8 percent PM<sub>10</sub> control efficiency for its use.
- ◆ EP2 is limited to 40 tpy VOC by Permit Condition 001.

The installation has the potential to emit VOC above the major source level of 100.0 tpy, but has accepted a voluntary limit in order to obtain this Intermediate Operating Permit.

The installation does not have the potential to emit HAP above the major source levels at this time; however, the installation has the operational flexibility to increase HAP emissions provided the requirements of Permit Condition PW001 are met.

**Other Regulatory Determinations**

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

This rule does not apply to the tube coating process (EP2) because it is equipped with a control system designed to control 98.8 percent of particulate overspray, which meets the exemption in 10 CSR 10-6.400(1)(B)14.

**Woodcutting Operations:**

One table saw, one radial arm saw and one Dado saw are located in the wood shop area. Emissions from cutting wood at the table and radial arm saws in the wood shop area are exhausted through a cyclone (located outside the building) and then through a polyester felt bag filter (located inside the building).

Emissions from the Dado saw are not connected to any control device. They are fugitive emissions in the wood shop area. Fugitive emissions are exempt from the process weight rule per 10 CSR 10-6.400(1)7.

One table saw is located in the shipping area. The purpose of cutting wood at the plant is to provide skids for the finished tube bundles which are then banded, and for making truck blocks. The skids are required by some customers only.

The maximum hourly design rate for wood cutting is 230.4 lb or 0.115 tons per hour. Using an emission factor for total particulates of 0.35 lb/ton of wood (FIRE SCC 30700802):

Maximum uncontrolled particulate emission rate at design capacity =  $0.115 \text{ ton/hr} \times 0.35 \text{ lb/ton} = 0.04 \text{ lb/hr}$ . This is less than 0.5 lb/hr, therefore the rule does not apply.

*10 CSR 10-5.300 Control of Emissions From Solvent Metal Cleaning*

The cold cleaning accounted for under EP01 is exempt from this rule per 5.300(1)(D)1.E. as it is a wiping operation.

**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. Terry Rowles  
Bull Moose Tube Company  
P.O. Box 214  
Gerald, MO 63037-1622

Re: Bull Moose Tube Company, 071-0087  
Permit Number: **OP2014-004**

Dear Mr. Rowles:

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

You may appeal this permit to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.078.16 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 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 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/ark

Enclosures

c: St. Louis Regional Office  
PAMS File: 2013-06-016