



## INTERMEDIATE STATE PERMIT TO OPERATE

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

**Intermediate Operating Permit Number:** OP2009-022  
**Expiration Date:** AUG - 6 2014  
**Installation ID:** 105-0033  
**Project Number:** 2007-09-045

**Installation Name and Address**

Regal - Beloit Electric Motors Group  
401 West Fremont Road  
Lebanon, MO 65536  
Laclede County

**Parent Company's Name and Address**

Regal - Beloit Corporation  
200 State Street  
Beloit, WI 53511

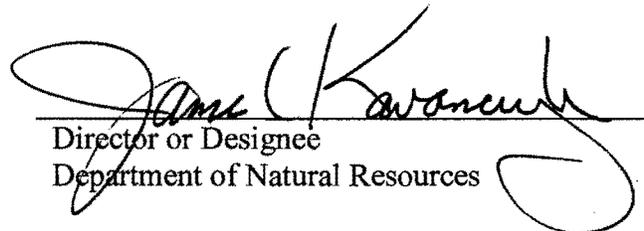
**Installation Description:**

Regal-Beloit Corporation operates an electric motors manufacturing plant (formerly Marathon Electric) in Lebanon, Missouri.

AUG - 7 2009

Effective Date

Director or Designee  
Department of Natural Resources



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## I. Installation Description and Equipment Listing

### INSTALLATION DESCRIPTION

Regal-Beloit Corporation operates an electric motors manufacturing plant (formerly Marathon Electric) in Lebanon, Missouri.

The reported actual emissions for the past five years for the installation are listed below:

Reported Air Pollutant Emissions, tons per year							
Year	Particulate Matter ≤ Ten Microns (PM-10)	Sulfur Oxides (SO <sub>x</sub> )	Nitrogen Oxides (NO <sub>x</sub> )	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Lead (Pb)	Hazardous Air Pollutants (HAPs)
2008	3.00	0.00	2.05	28.56	0.28	0.00	1.76
2007	3.84	0.00	2.89	41.50	0.39	0.00	1.17
2006	0.15	0.03	5.15	5.69	0.71	0.00	0.53
2005	0.15	0.04	5.35	10.39	0.73	0.00	0.46
2004	0.15	0.04	5.30	8.70	0.71	0.00	0.47

### EMISSION UNITS WITH LIMITATIONS

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

Emission Unit #	EIQ Reference #	Description of Emission Unit	Make/Model	Construction Date
EU0010	EP4.1	Die Casters	Various	Various
EU0020	EP17.1	Heat Cleaning (Burn Off) Oven	Bayco/Model 56	1995
EU0030	EP18.1	Aluminum Furnace	Frank W. Schaefer	2007
EU0040	EP23.1	Aluminum Furnace	Schaefer	1999
EU0050	EP24.1	Aluminum Furnace	Schaefer	1999
EU0060	EP26.1	Seven (7) Aluminum Furnaces	Model GC 1500	2001
EU0070	EP28.1	Aluminum Furnace	Model 200 THT	2002
EU0080	EP31.1	Aluminum Furnace	Frank W. Schaefer	2004
EU0090	EP32.1	Two (2) Small Paint Spray Booths		
EU0100	EP33.1	Paint Booth		
EU0110	EP34.1	Paint Booth		
EU0120	EP35.1	Pangorn Shot Blaster		

**EMISSION UNITS WITHOUT LIMITATIONS**

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

<b>EIQ Reference #</b>	<b>Description of Emission Unit</b>	<b>Make/Model</b>	<b>Construction Date</b>
EP1.1	Varnish Oven, 2.0 MMBtu/hr Natural Gas-fired	Oven Systems Inc. Model OSI 2818	1980
EP2.1	Two (2) Assembly Paint Booths with Paint Filters	JBI/Model IBD-88-F	1998
EP3.1	Assembly Small Paint Booth with Paint Filter	Devilbliss/ Model DFRL-6-7-125	1992
EP6.1	Four (4) Dock Space Heaters, 1.6 MMBtu/hr Natural Gas-fired		
EP10.1	Hot Drop Furnaces, 1.6 MMBtu/hr Natural Gas-fired		
EP13.1	Steel Welding Booth	Miller/Model Deltaweld	1992
EP14.1	Steel Welding Booth	Miller/Model CP-200 & CP-300	1975 & 1973
EP20.1	Shot Blaster	Wheelabrator	1957
EP21.1	Winding Connect Torches		
EP25.1	Assembly Paint Booth	Lincoln	2001
EP30.1	Therm Paint Drying Oven, 0.6 MMBtu/hr Natural Gas-fired		

**DOCUMENTS INCORPORATED BY REFERENCE**

This permit incorporates the following documents by reference:

- 1) Construction Permit 1095-019, Issued October 11, 1995;
- 2) Construction Permit 122001-002, Issued November 19, 2001;
- 3) Construction Permit 092002-001, Issued April 15, 2002,
- 4) Construction Permit 062004-018, Issued June 29, 2004; and
- 5) Construction Permit 032008-001, Issued March 5, 2008;

## II. Plant Wide Emission Limitations

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

### Permit Condition PW001

10 CSR 10-6.060 Construction Permits Required  
**Construction Permit 032008-001, Issued March 5, 2008**  
10 CSR 10-6.065, Operating Permits  
**10 CSR 10-6.065(2)(C) and 10 CSR 10-6.065(5)(A) Voluntary Limitation(s)**

#### Emission Limitation:

- 1) Regal-Beloit Electric Group shall emit less than 100 tons of Volatile Organic Compounds (VOCs) from the installation in any consecutive 12-month period.  
[Construction Permit 032008-001: Special Condition 2A]
- 2) Regal-Beloit Electric Motors Group shall emit less than 10 tons of any individual HAP in any consecutive 12-month period [Construction Permit 032008-001: Special Condition 2B]
- 3) Regal-Beloit Electric Motors Group shall emit less than 25 tons of any combination of HAPs in any consecutive 12-month period. [Construction Permit 032008-001: Special Condition 2B]

#### Monitoring/Recordkeeping:

Attachment A, B and C or equivalent forms approved by the Air Pollution Control Program shall be used to demonstrate compliance with the Emission Limitation 1, 2 and 3 of this permit condition (Special Conditions 2A and 2B of Construction Permit 032008-001). Regal-Beloit Electric Group 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. These records shall include Material Safety Data Sheets (MSDS) for all materials used in at the installation.  
[Construction Permit 032008-001: Special Condition 2C]

#### Reporting:

Regal-Beloit Electric Group shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten days after the end of the month during which the records indicate that the source exceeds the emissions limitations.  
[Construction Permit 032008-019: Special Condition 2D]

### Permit Condition PW002

10 CSR 10-6.060 Construction Permits Required  
**Construction Permit 122001-002, Issued November 19, 2001**  
**Construction Permit 092002-001, Issued April 15, 2002**  
**Construction Permit 062004-018, Issued June 29, 2004**  
**Construction Permit 032008-001, Issued March 5, 2008**

#### Operational Limitation:

Regal-Beloit Electric Motors Group shall only melt or process clean metal (aluminum) that contains no visible oil or other organic contaminant.

**Permit Condition PW003**

10 CSR 10-6.060 Construction Permits Required  
**Construction Permit 032008-001, Issued March 5, 2008**

**Emission Limitation:**

Regal-Beloit Electric Group shall emit less than 15 tons of particulate matter less than ten microns (PM<sub>10</sub>) in any consecutive 12-month period from the equipment listed in the table below.

[Construction Permit 032008-001: Special Condition 3A]

<b>Emission Point</b>	<b>Description</b>
EP1.1	Varnish Oven
EP6.1	Four (4) Dock Space Heaters
EP10.1	Hot Drop Furnace
EP17.1	Burn Off Oven
EP18.1	Aluminum Melt Furnace
EP21.1	Winding Connect Torches
EP23.1	Aluminum Melt Furnace
EP24.1	Aluminum Melt Furnace
EP26.1	Three (3) Aluminum Melt Furnaces
EP28.1	Aluminum Melt Furnace
EP30.1	Paint Drying Oven
EP31.1	Aluminum Melt Furnace
EP32.1	Two (2) Small Paint Spray Booth
EP33.1	Paint Booth
EP34.1	Paint Booth
EP35.1	Pangorn Shot Blaster

**Monitoring/Recordkeeping:**

Regal-Beloit Electric Group shall maintain an accurate record of PM<sub>10</sub> emitted into the atmosphere from the equipment listed in Emission Limitation 1 of this permit condition (Special Condition 3A of Construction Permit 032008-001). Attachment D or equivalent form(s) shall be used for this purpose. Regal-Beloit Electric Motors Group shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.

[Construction Permit 032008-001: Special Condition 3B]

**Reporting:**

Regal-Beloit Electric Group shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten days after the end of the month during which the records indicate that the source exceeds the emissions limitations.

[Construction Permit 032008-019: Special Condition 3C]

**Permit Condition PW004**

**10 CSR 10-6.220**

**Restriction of Emission of Visible Air Contaminants**

**Emission Limitation:**

- 1) No owner or other person shall cause or permit emissions to be discharged into the atmosphere from any existing<sup>1</sup> source any visible emissions with an opacity greater than 40 percent.
- 2) No owner or other person shall cause or permit emissions to be discharged into the atmosphere from any new<sup>2</sup> source any visible emissions with an opacity greater than 20 percent.
- 3) Exception:  
A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any 60 minutes air contaminants with an opacity up to 60 percent.

**Monitoring:**

- 1) The permittee shall conduct opacity readings on the emission unit(s) using the procedures contained in U.S. EPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit(s) is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative shall implement corrective actions within a reasonable period.
- 2) The following monitoring schedule must be maintained:
  - a) Observations must be made once per month. If a violation is noted, then
  - b) Weekly observations shall be conducted for a minimum of eight (8) consecutive weeks. Should no violation of this regulation be observed during this period then monitoring reverts to monthly monitoring.
- 3) If the source reverts to monthly 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 (see Attachments E), noting:
  - a) Whether any air emissions (except for water vapor) were visible from the emission units,
  - b) All emission units from which visible emissions occurred, and
  - c) Whether the visible emissions were normal for the process.
- 2) The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment F)
- 3) Attachments E and F contain logs including these recordkeeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.

<sup>1</sup> *Existing source*-any equipment, machine, device, article, contrivance or installation installed or in construction in the outstate Missouri area on February 24, 1971.

Exception: If the source is altered, repaired, or rebuilt at a cost of fifty percent (50%) or more of its replacement cost exclusive of routine maintenance, it shall no longer be existing, but shall be considered new as defined in this regulation.

<sup>2</sup> *New source*: any equipment, machine, device, article, contrivance or installation installed in the outstate Missouri area after February 24, 1971.

**Reporting:**

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

### III. Emission Unit Specific Emission Limitations

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

<b>EU0010 – Die Casters</b> Thirteen (13) Aluminum Die Casters			
Emission Unit	Description	Manufacturer/Model #	2007 EIQ Reference #
EU0010	Die casting machine #2; Installed 1988	Birch/ 600T-609	EP4.1a
	Die casting machine #3; Installed 1973	KUX/ HP625	EP4.1b
	Die casting machine #1; Installed 1979	HPM/II-600A	EP4.1c
	Die casting machine #4; Installed 1996	HPM/II-600A	EP4.1d
	Die casting machine #6; Installed 1989	THT/1749	EP4.1e
	Die casting machine #5; Installed 1995	THT/2051	EP4.1f
	Die casting machine #7; Installed 1989	200 THT/1743	EP4.1g
	Die casting machine #8; Installed 1998	HPM/II-600	EP4.1h
	Die casting machine #9; Installed 1998	Birch/650A	EP4.1i
	Die casting machine #10; Installed 2001	HPM/1200	EP4.1j
	Die casting machine #11; Installed 2001	HPM/600	EP4.1k
	Die casting machine #12; Installed 2001	HPM/600	EP4.1l
	Die casting machine #13; Installed 2001	200THT/1743	EP4.1m

<p><b>Permit Condition EU0010-001</b></p> <p><b>10 CSR 10-6.260</b></p> <p><b>Restriction of Emission of Sulfur Compounds</b></p>
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**Emission Limitation:**

- 1) Emissions from any new source operation shall not contain more than five hundred parts per million by volume (500 ppmv) of sulfur dioxide.
- 2) Stack gasses shall not contain more than thirty-five milligrams (35 mg) per cubic meter of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three hour time period.
- 3) No person shall cause or permit the emission of sulfur compounds from any source which causes or contributes to concentrations exceeding those specified in 10 CSR 10-6.010 Ambient Air Quality Standards. [10 CSR 10-6.260(3)(B) & 10 CSR 10-6.010 Ambient Air Quality Standards] <sup>3</sup>

**Monitoring:**

Compliance shall be determined by source testing as specified in 10 CSR 10-6.030(6) for emissions and T Screen Modeling for estimating ambient sulfur compound concentrations if modifications result in potential increase in sulfur dioxide emissions.

<sup>3</sup> 10 CSR 10-6.260(3)(B) is state-only requirement.

**Recordkeeping:**

The permittee shall retain copies of the emission calculations to show compliance with 10 CSR 10-6.260.

**Reporting:**

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the permittee determined that the emission unit(s) exceeded the emission limitation(s) listed above.

<b>EU0020 – Heat Cleaning (Burn Off) Oven</b>			
Emission Unit	Description	Manufacturer/Model #	2007 EIQ Reference #
EU0020	Heat Cleaning Oven with Afterburner for control of VOC and CO emissions – for cleaning motor parts and paint hooks & hangers. Installed 1995	Bayco Model 56	EP17.1

<p><b>Permit Condition EU0020-001</b></p> <p>10 CSR 10-6.060 Construction Permits Required                  Construction Permit 1095-019, Issued October 11, 1995</p>
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**Operational Limitation:**

- 1) This installation shall not burn Teflon<sup>®</sup>, chlorinated plastics, chlorinated solvents, trash, or hazardous waste material in the heat cleaning oven.
- 2) The facility can only burn off electric motor parts, hangers, and paint hooks that are generated on site.

<b>EU0030 through EU0080 – Aluminum Furnaces</b>			
Emission Unit	Description	Manufacturer/Model #	2007 EIQ Reference #
EU0030	Aluminum Melt Furnace rated at 0.8 MMBtu/hr and 0.175 tons per hour. Installed 2007	Frank W. Schaefer S/N 7-4721-0	EP18.1
EU0040	Aluminum Melt Furnace rated at 0.8 MMBtu/hr and 0.25 tons per hour. Installed 1999	Schaefer	EP23.1
EU0050	Aluminum Melt Furnace rated at 0.8 MMBtu/hr and 0.25 tons per hour. Installed 1999	Schaefer	EP24.1
EU0060	Seven (7) Aluminum Melt Furnaces rated at 0.9 MMBtu/hr and 0.165 tons per hour each. Installed 2001	Model GC 1500	EP26.1
EU0070	Aluminum Melt Furnace rated at 8.69 MMBtu/hr and 0.25 tons per hour. Installed 2002	Model 200 THT	EP28.1
EU0080	Aluminum Melt Furnace rated at 1.5 MMBtu/hr and 0.4 tons per hour. Installed 2004	Frank W. Schaefer S/N 7-104-005	EP31.1

**Permit Condition EU0030-001 through EU0080-001**  
**10 CSR 10-6.400**  
**Restriction of Emission of Particulate Matter from Industrial Processes**

**Emission Limitation:**

- 1) The permittee shall not emit particulate matter in excess of:
  - a) 1.28 pounds per hour from EU0030); and
  - b) 1.62 pounds per hour from EU0040, EU0050 and EU0070;
  - c) 1.23 pounds per hour from each of the seven melt furnaces (EU0060); and
  - d) 2.22 pounds per hour from EU0080.
- 2) No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grains per standard cubic foot of exhaust gases.

**Note:** The emission rates in this permit condition apply to the sources individually and not the aggregated sources.

**Monitoring/Recordkeeping/Reporting:**

Not required (See Statement of Basis).

<b>EU0090 through EU0110 – Paint Booths</b>			
Emission Unit	Description	Manufacturer/ Model #	2007 EIQ Reference #
EU0090	Two (2) Small Paint Spray Booths with Paint Filters	Not Available	EP32.1
EU0100	Paint Booth with Paint Filter	Not Available	EP33.1
EU0110	Paint Booth with Paint Filter	Not Available	EP34.1

**Permit Condition EU0090-001 through EU0110-001**  
 10 CSR 10-6.060 Construction Permits Required  
**Construction Permit No. 032008-001, Issued March 5, 2008**

**Operational Limitation/Equipment Specification:**

*Control Device – Paint Filters*

- 1) Regal-Beloit Electric Motors Group shall control emissions from paint booths (EP32.1, EP33.1, EP34.1) using paint filters as specified in the permit application. The paint filter shall be in operation any time the paint booths are in operation. [Special Condition 6A]
- 2) The filters shall be operated and maintained in accordance with the manufacturer's specifications. Replacement filters shall be kept on hand at all times. [Special Condition 6B]

**Recordkeeping:**

Regal-Beloit Electric Motors Group shall maintain an operating and maintenance log for the filters which shall include the following. [Special Condition 6C]

- 1) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and [Special Condition 6C1]
- 2) Maintenance activities, with inspection schedule, repair actions, and replacements, etc. [Special Condition 6C2]

<b>EU0120 – Pangorn Shot Blaster</b>			
Emission Unit	Description	Manufacturer/ Model #	2007 EIQ Reference #
EU0120	Pangorn Shot Blaster with Baghouse	Not Available	EP35.1

<p style="text-align: center;"><b>Permit Condition EU0120-001</b> 10 CSR 10-6.060 Construction Permits Required Construction Permit 032008-001, Issued March 5, 2008 10 CSR 10-6.400 Restriction of Emission of Particulate Matter from Industrial Processes</p>
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**Emission Limitation:**

- 1) The permittee shall not emit particulate matter in excess of 16.17 pounds per hour from EU0120.
- 2) No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grains per standard cubic foot of exhaust gases

**Operational Limitation/Equipment Specification:**

*Control Device – Baghouses*

- 1) Regal-Beloit Electric Motors Group shall control emissions from the shot blaster (EP35.1) using a baghouse as specified in the permit application. [Construction Permit 032008-001: Special Condition 4A]
- 2) The baghouse shall be operated and maintained in accordance with manufacturer’s specifications. Replacement filters for the baghouse shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance). [Construction Permit 032008-001: Special Condition 4B]
- 3) The baghouse shall be equipped with an automated monitoring system with indicator lights that light up when the baghouse is not operating properly and/or when maintenance is required. [Construction Permit 032008-001: Special Condition 4C]

**Recordkeeping:**

- 1) Regal-Beloit Electric Motors Group shall maintain an operating and maintenance log for the baghouses which shall include the following: [Construction Permit 032008-001: Special Condition 4D]
  - a) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions, [Construction Permit 032008-001: Special Condition 4D1]
  - b) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.; and [Construction Permit 032008-001: Special Condition 4D2]
  - c) Any instance when the indicator lights required by Special Condition 4.C of construction permit 032008-001 lights up and any corrective or maintenance actions taken as a result. [Construction Permit 032008-001: Special Condition 4D3]

**Reporting:**

- 1) The permittee shall report to Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 no later than ten days after the permittee determined that the emission unit exceeded the emission limitation(s). The reporting shall be in writing or orally with written notice to follow within ten days after the verbal report.

- 2) Reports of any deviations from monitoring other than the pressure drop range, record keeping and reporting requirements of this permit condition shall be submitted with the annual monitoring report and annual compliance certification, as 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 Code of Federal Regulations (CFR), Code of State Regulations (CSR), and local ordinances for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect on the date of permit issuance.

### 10 CSR 10-6.045 Open Burning Restrictions

- 1) General Provisions. The open burning of tires, petroleum-based products, asbestos containing materials, and trade waste is prohibited, except as allowed below. Nothing in this rule may be construed as to allow open burning which causes or constitutes a public health hazard, nuisance, a hazard to vehicular or air traffic, nor which violates any other rule or statute.
- 2) Refer to the regulation for a complete list of allowances. The following is a listing of exceptions to the allowances:
  - a) Burning of household or domestic refuse. Burning of household or domestic refuse is limited to open burning on a residential premises having not more than four dwelling units, provided that the refuse originates on the same premises, with the following exceptions:
    - i) Kansas City metropolitan area. The open burning of household refuse must take place in an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of Kansas City and every contiguous municipality;
    - ii) Springfield-Greene County area. The open burning of household refuse must take place outside the corporate limits of Springfield and only within areas zoned A-1, Agricultural District;
    - iii) St. Joseph area. The open burning of household refuse must take place within an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of St. Joseph; and
    - iv) St. Louis metropolitan area. The open burning of household refuse is prohibited;
  - b) Yard waste, with the following exceptions:
    - i) Kansas City metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation shall require an open burning permit;
    - ii) Springfield-Greene County area. The City of Springfield requires an open burning permit for the open burning of trees, brush or any other type of vegetation. The City of Springfield prohibits the open burning of tree leaves;
    - iii) St. Joseph area. Within the corporate limits of St. Joseph, the open burning of trees, tree leaves, brush or any other type of vegetation grown on a residential property is allowed during the following calendar periods and time-of-day restrictions:
      - (1) A three (3)-week period within the period commencing the first day of March through April 30 and continuing for twenty-one (21) consecutive calendar days;
      - (2) A three (3)-week period within the period commencing the first day of October through November 30 and continuing for twenty-one (21) consecutive calendar days;
      - (3) The burning shall take place only between the daytime hours of 10:00 a.m. and 3:30 p.m.; and
      - (4) In each instance, the twenty-one (21)-day burning period shall be determined by the Director of Public Health and Welfare of the City of St. Joseph for the region in which the City of St. Joseph is located provided, however, the burning period first shall receive the approval of the Department Director; and

- iv) St. Louis metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation is limited to the period beginning September 16 and ending April 14 of each calendar year and limited to a total base area not to exceed sixteen (16) square feet. Any open burning shall be conducted only between the hours of 10:00 a.m. and 4:00 p.m. and is limited to areas outside of incorporated municipalities;
- 3) Certain types of materials may be open burned provided an open burning permit is obtained from the Director. The permit will specify the conditions and provisions of all open burning. The permit may be revoked if the owner or operator fails to comply with the conditions or any provisions of the permit.
- 4) Regal-Beloit Electric Motors Group may be issued an annually renewable open burning permit for open burning provided that an air curtain destructor or incinerator is utilized and only tree trunks, tree limbs, vegetation or untreated wood waste are burned. Open burning shall occur at least two hundred (200) yards from the nearest occupied structure unless the owner or operator of the occupied structure provides a written waiver of this requirement. Any waiver shall accompany the open burning permit application. The permit may be revoked if Regal-Beloit Electric Motors Group fails to comply with the provisions or any condition of the open burning permit.
  - a) In a nonattainment area, as defined in 10 CSR 10-6.020, paragraph (2)(N)5., the Director shall not issue a permit under this section unless the owner or operator can demonstrate to the satisfaction of the Director that the emissions from the open burning of the specified material would be less than the emissions from any other waste management or disposal method.
- 5) Reporting and Record Keeping. New Source Performance Standard (NSPS) 40 CFR Part 60 Subpart CCCC establishes certain requirements for air curtain destructors or incinerators that burn wood trade waste. These requirements are established in 40 CFR 60.2245 60.2260. The provisions of 40 CFR Part 60 Subpart CCCC promulgated as of September 22, 2005, shall apply and are hereby incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401. To comply with NSPS 40 CFR 60.2245 and 60.2260, sources must conduct an annual Method 9 test. A copy of the annual Method 9 test results shall be submitted to the Director.
- 6) Test Methods. The visible emissions from air pollution sources shall be evaluated as specified by 40 CFR Part 60, Appendix A–Test Methods, Method 9–Visual Determination of the Opacity of Emissions from Stationary Sources. The provisions of 40 CFR Part 60, Appendix A, Method 9 promulgated as of December 23, 1971 is incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401.

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

- 1) In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the Director within two business days, in writing, the following information:
  - a) Name and location of installation;
  - b) Name and telephone number of person responsible for the installation;
  - c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
  - d) Identity of the equipment causing the excess emissions;
  - e) Time and duration of the period of excess emissions;
  - f) Cause of the excess emissions;
  - g) Air pollutants involved;
  - h) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;

- i) Measures taken to mitigate the extent and duration of the excess emissions; and
  - j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
- 2) The permittee shall submit the paragraph 1 information list to the Director in writing at least ten days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the Director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within ten working days.
  - 3) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under Section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph 1 list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the Director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under Section 643.080 or 643.151, RSMo.
  - 4) Nothing in this rule shall be construed to limit the authority of the Director or commission to take appropriate action, under Sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.
  - 5) Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

#### **10 CSR 10-6.060 Construction Permits Required**

The permittee shall not commence construction, modification, or major modification of any installation subject to this rule, begin operation after that construction, modification, or major modification, or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

#### **10 CSR 10-6.065 Operating Permits**

The permittee shall file a complete application for renewal of this operating permit at least six months before the date of permit expiration. In no event shall this time be greater than eighteen months. [10 CSR 10-6.065(5)(B)1.A(III)] The permittee shall retain the most current operating permit issued to this installation on-site. [10 CSR 10-6.065, §(5)(C)(1) and §(6)(C)1.C(II)] The permittee shall immediately make such permit available to any Missouri Department of Natural Resources personnel upon request. [10 CSR 10-6.065, §(5)(C)(1) and §(6)(C)3.B]

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

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

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

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

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

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

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

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

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

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

### **10 CSR 10-3.090 Restriction on 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.

### **Title VI – 40 CFR Part 82 Protection of Stratospheric Ozone**

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
  - a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
  - b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
  - c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
  - d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
- 2) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
  - a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
  - b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
  - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
  - d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
  - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
  - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- 3) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, Production and Consumption Controls.
- 4) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.

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The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, Significant New Alternatives Policy Program. *Federal Only - 40 CFR Part 82*

**10 CSR 10-6.280 Compliance Monitoring Usage**

- 1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
  - a) Monitoring methods outlined in 40 CFR Part 64;
  - b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, “Operating Permits”, and incorporated into an operating permit; and
  - c) Any other monitoring methods approved by the Director.
- 2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
  - a) Monitoring methods outlined in 40 CFR Part 64;
  - b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, “Operating Permits”, and incorporated into an operating permit; and
  - c) Compliance test methods specified in the rule cited as the authority for the emission limitations.
- 3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
  - a) Applicable monitoring or testing methods, cited in:
    - i) 10 CSR 10-6.030, “Sampling Methods for Air Pollution Sources”;
    - ii) 10 CSR 10-6.040, “Reference Methods”;
    - iii) 10 CSR 10-6.070, “New Source Performance Standards”;
    - iv) 10 CSR 10-6.080, “Emission Standards for Hazardous Air Pollutants”;
  - b) Other testing, monitoring, or information gathering methods, if approved by the Director, that produce information comparable to that produced by any method listed above.

## V. General Permit Requirements

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

### **10 CSR 10-6.065, §(5)(C)1 and §(6)(C)1.B Permit Duration**

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

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

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

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

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

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

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

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

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

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

None.

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

- 1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
- 2) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation's right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
  - a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
  - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
  - d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
- 3) All progress reports required under an applicable schedule of compliance shall be submitted semiannually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
  - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
  - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.
- 4) The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by June 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and exceedances must be included in the compliance certifications. The compliance certification shall include the following:
  - a) The identification of each term or condition of the permit that is the basis of the certification;
  - b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;
  - c) Whether compliance was continuous or intermittent;
  - d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period; and
  - e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

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

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

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

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

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

The application utilized in the preparation of this permit was signed by Larry Duffel, Plant Manager. On July 8, 2009, the Air Pollution Control Program was informed that David Highley, Plant Manager, is now the responsible official. If this person terminates employment, or is reassigned different duties such that a different person becomes the responsible person to represent and bind the installation in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Director of the Air Pollution Control Program of the change. Said notification shall be in writing and shall be submitted within 30 days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the installation in environmental permitting affairs. All representations, agreement to terms and conditions and covenants

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made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the installation until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

**10 CSR 10-6.065 §(5)(E)4 and §(6)(E)6.A(III)(a)-(c) Reopening-Permit for Cause**

This permit may be reopened for cause if:

- 1) The Missouri Department of Natural Resources (MDNR) or EPA determines that the permit contains a material mistake or that inaccurate statements were made which resulted in establishing the emissions limitation standards or other terms of the permit,
- 2) Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if—:
  - a) The permit has a remaining term of less than three years;
  - b) The effective date of the requirement is later than the date on which the permit is due to expire;  
or
  - c) The additional applicable requirements are implemented in a general permit that is applicable to the installation and the installation receives authorization for coverage under that general permit,
- 3) The Missouri Department of Natural Resources or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

**10 CSR 10-6.065 §(5)(E)1.A and §(6)(E)1.C Statement of Basis**

This permit is accompanied by a statement setting forth the legal and factual basis for the permit conditions (including references to applicable statutory or regulatory provisions). This Statement of Basis, while referenced by the permit, is not an actual part of the permit.

## **VI. Attachments**

Attachments follow.

**Attachment A  
 VOC Compliance Worksheet**

This worksheet covers the period from \_\_\_\_\_ to \_\_\_\_\_  
 (month/year) (month/year)

Emission Points	Description	<sup>1</sup> Monthly Throughput	<sup>2</sup> Emission Factor	Total Monthly Emissions (tons/month)
<b><sup>4</sup>Total Monthly Facility VOC Emissions (tons) =</b>				
<b>Total Monthly Facility VOC Emissions From This Month of Prior Year (tons) =</b>				
<b>Total (12-Month) Facility-Wide VOC Emissions From Previous Month (tons) =</b>				
<b><sup>5</sup>Total Annual (12-Month) Facility-Wide VOC Emissions (tons) =</b>				

Notes

- (1) Monthly throughputs (lbs) for evaporative sources are the amount of material used (gallons) multiplied by the density of the material (lbs/gallon). Monthly throughput for combustion sources are the amount of fuel used (mmscf or Mgal).
- (2) Emission factors for evaporative sources are the VOC contents (% by weight) in the MSDS for materials used. Emission factor for combustion sources is 5.5 lbs of VOC/mmscf of natural gas or 0.5 lbs of VOC/Mgal of propane (obtained from AP-42).
- (3) Total monthly emissions for evaporative sources are calculated by multiplying monthly throughput (lbs) by the emission factors (% by weight) divided by 100. Total monthly emissions for combustion sources are calculated by multiplying monthly throughput (mmscf) by the emission factor (lbs/mmsc or lbs/Mgal).
- (4) Total monthly emissions for the entire installation is calculated by summing the individual total monthly emissions.
- (5) Current 12-month facility-wide VOC emissions can be calculated as follows:  
*Annual VOC Emissions – [(Total Month Facility VOC Emissions for This month) + (Prior Month’s Total Annual VOC Emissions) - (Total Monthly Facility VOC Emissions From Same Month of Prior Year)].*  
**A 12-Month facility-wide VOC emissions of less than 100 tons indicate compliance.**

**Attachment B  
 Annual HAPs Compliance Worksheet**

This worksheet covers the period from \_\_\_\_\_ to \_\_\_\_\_  
 (month/year) (month/year)

Emission Points	Description	<sup>1</sup> Monthly Throughput	<sup>2</sup> Emission Factor	Total Monthly Emissions (tons/month)
<b><sup>4</sup>Total Monthly Facility HAPs Emissions (tons) =</b>				
<b>Total Monthly Facility HAPs Emissions From This Month of Prior Year (tons) =</b>				
<b>Total (12-Month) Facility-Wide HAPs Emissions From Previous Month (tons) =</b>				
<b><sup>5</sup>Total Annual (12-Month) Facility-Wide HAPs Emissions (tons) =</b>				

Notes

- (1) Monthly throughputs (lbs) for evaporative sources are the amount of material used (gallons) multiplied by the density of the material (lbs/gallon). Monthly throughput for combustion sources are the amount of fuel used (mmscf or Mgal).
- (2) Emission factors for evaporative sources are the HAPs contents (% by weight) in the MSDS for materials used. Emission factor for combustion sources can be obtained from AP-42, Chapter 1.4, *Natural Gas Combustion*.
- (3) Total monthly emissions for evaporative sources are calculated by multiplying monthly throughput (lbs) by the emission factors (% by weight) divided by 100. Total monthly emissions for combustion sources are calculated by multiplying monthly throughput (mmscf) by the emission factor (lbs/mmsc or lbs/Mgal).
- (4) Total monthly emissions for the entire installation is calculated by summing the individual total monthly emissions.
- (5) Current 12-month facility-wide HAPs emissions can be calculated as follows:  
*Annual HAPs Emissions – [(Total Month Facility HAPs Emissions for This month) + (Prior Month’s Total Annual HAPs Emissions) - (Total Monthly Facility HAPs Emissions From Same Month of Prior Year)].*  
**A 12-Month facility-wide HAPs emissions of less than 25 tons indicate compliance.**

**Attachment C  
 Individual HAP Compliance Worksheet**

HAP Name: \_\_\_\_\_ CAS No.: \_\_\_\_\_

This worksheet covers the period from \_\_\_\_\_ to \_\_\_\_\_  
 (month/year) (month/year)

Emission Points	Description	<sup>1</sup> Monthly Throughput	<sup>2</sup> Emission Factor	Total Monthly Emissions (tons/month)
<b><sup>4</sup>Total Monthly Facility Individual HAP Emissions (tons) =</b>				
<b>Total Monthly Facility Individual HAP Emissions From This Month of Prior Year (tons) =</b>				
<b>Total (12-Month) Facility-Wide Individual HAP Emissions From Previous Month (tons) =</b>				
<b><sup>5</sup>Total Annual (12-Month) Facility-Wide Individual HAP Emissions (tons) =</b>				

Notes

- (1) Monthly throughputs (lbs) for evaporative sources are the amount of material used (gallons) multiplied by the density of the material (lbs/gallon). Monthly throughput for combustion sources are the amount of fuel used (mmscf or Mgal).
- (2) Emission factors for evaporative sources are the HAPs contents (% by weight) in the MSDS for materials used. Emission factor for combustion sources can be obtained from AP-42, Chapter 1.4, *Natural Gas Combustion*.
- (3) Total monthly emissions for evaporative sources are calculated by multiplying monthly throughput (lbs) by the emission factors (%) divided by 100. Total monthly emissions for combustion sources are calculated by multiplying monthly throughput (mmscf) by the emission factor (lbs/mmsc or lbs/Mgal).
- (4) Total monthly emissions for the entire installation is calculated by summing the individual total monthly emissions.
- (5) Current 12-month facility-wide individual HAP emissions can be calculated as follows:  
*Annual Individual HAP Emissions – [(Total Month Facility Individual HAP s Emissions for This month) + (Prior Month’s Total Annual Individual HAP Emissions) - (Total Monthly Facility Individual HAP Emissions From Same Month of Prior Year)].*  
**A 12-Month facility-wide Individual HAP emissions of less than 10 tons indicate compliance.**

**Attachment D**  
**PM<sub>10</sub> - Compliance Worksheet**

This worksheet covers the period from \_\_\_\_\_ to \_\_\_\_\_  
 (month/year) (month/year)

Emission Points	Description	<sup>1</sup> Monthly Throughput	<sup>2</sup> Emission Factor	Total Monthly Emissions (tons/month)
1.1	Varnish Oven			
6.1	Dock Space Heaters			
10.1	Hot Drop Furnace			
17.1	Heat Cleaning Burn Off Oven			
18.1, 23.1, 24.1, 26.1, 28.1, & 31.1	Aluminum Melt Furnaces			
21.1	Winding Connect Torches			
30.1	Paint Drying Oven			
32.1	Can Spray Paint Booths			
33.1	Paint Booth			
34.1	Paint Booth			
35.1	Panagon Shot Blaster			
<b><sup>4</sup>Total Monthly Facility Individual HAP Emissions (tons) =</b>				
<b>Total Monthly Facility Individual HAP Emissions From This Month of Prior Year (tons) =</b>				
<b>Total (12-Month) Facility-Wide Individual HAP Emissions From Previous Month (tons) =</b>				
<b><sup>5</sup>Total Annual (12-Month) Facility-Wide Individual HAP Emissions (tons) =</b>				

Notes

- Monthly throughputs (lbs) for evaporative sources are the amount of material used (gallons) multiplied by the density of the material (lbs/gallon). Monthly throughput for combustion sources are the amount of fuel used (mmscf or Mgal). Monthly throughput for the shot blaster is the amount of shots used (lbs).
- Emission factors for evaporative sources are the solids content (% by weight) in the MSDS for materials used. Emission factor for combustion sources is 5.5 lbs of PM10/mmscf of natural gas or 0.6 lbs of PM10/Mgal of propane (obtained from AP-42). Emission factor of the shot blaster is 13 lbs of PM10/1000 lbs of shot used. An 80 percent capture and 99 percent device control efficiency can be used to give a controlled emission factor for the shot blaster.
- Total monthly emissions for evaporative sources are calculated as follows  
 [monthly throughput (lbs)] x [solids content (% by weight) divided by 100] x [1 – transfer efficiency of the application equipment (%) divided by 100]. Total monthly emissions for combustion sources are calculated by multiplying monthly throughput (mmscf) by the emission factor (lbs/mmscf). Total monthly emissions for blasting are calculated by multiplying monthly throughput (lbs) by the emission factor (lbs/1000 lbs).
- Total monthly emissions for the entire installation is calculated by summing the individual total monthly emissions.
- Current 12-month facility-wide PM<sub>10</sub> emissions can be calculated as follows: Annual PM<sub>10</sub> Emissions – [(Total Month Facility PM<sub>10</sub>Emissions for This month) + (Prior Month’s Total Annual PM<sub>10</sub> Emissions) - (Total Monthly Facility PM<sub>10</sub> Emissions From Same Month of Prior Year)].  
**A 12-Monthly Project PM<sub>10</sub> emissions of less than 15 tons indicate compliance.**



**Attachment F**

**10 CSR 10-6.220 Compliance Demonstration  
 Method 9 Visual Determination of Opacity**

This attachment or an equivalent may be used to help meet the recordkeeping requirements of Permit Condition PW004.

Method 9 Opacity Emissions Observations	
Company	Observer
Location	Observer Certification Date
Date	Emission Unit
Time	Control Device

Hour	Minute	Seconds				Steam Plume (check if applicable)		Comments
		0	15	30	45	Attached	Detached	
	0							
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							

SUMMARY OF AVERAGE OPACITY				
Set Number	Time		Opacity	
	Start	End	Sum	Average

Readings ranged from \_\_\_\_\_ to \_\_\_\_\_ % opacity.

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

# STATEMENT OF BASIS

## **Voluntary Limitations**

In order to qualify for this Intermediate State Operating Permit, the permittee has accepted voluntary, federally enforceable emission limitations. Per 10 CSR 10-6.065(5)(C)1.A.(VI), if these limitations are exceeded, the installation immediately becomes subject to 10 CSR 10-6.065(6) and enforcement action for operating without a valid part 70 operating permit. It is the permittee's responsibility to monitor emission levels and apply for a part 70 operating permit far enough in advance to avoid this situation. This may mean applying more than eighteen months in advance of the exceedance, since it can take that long or longer to obtain a part 70 operating permit.

## **Permit Reference Documents**

These documents were relied upon in the preparation of the operating permit. Because they are not incorporated by reference, they are not an official part of the operating permit.

- 1) Intermediate Operating Permit Renewal Application, received September 13, 2007;
- 2) Initial Intermediate Operating Permit, Permit No. OP2003-012;
- 3) 2007 Emissions Inventory Questionnaire, received May 20, 2008,
- 4) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition;
- 5) Construction Permit 1192-007, issued November 9, 1992, for the installation of a paint booth;
- 6) Construction Permit 0497-005, issued March 20, 1997, for the installation of a die cast machine;
- 7) Construction Permit 1098-009, issued September 11, 1998, for the installation of an incinerator; and
- 8) Construction Permit 0199-028, issued November 4, 1998, for the installation of two (2) paint booths and two (2) die casting machine.

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

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

**None**

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

The Air Pollution Control Program (APCP) has determined that the following requirements are not applicable to this installation at this time for the reasons stated.

10 CSR 10-6.080, *Emission Standards for Hazardous Air Pollutants, Subpart M, National Standards for Asbestos*; and

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

In the permit application and according to Air Pollution Control Program records, there was no indication that any Missouri Air Conservation Law, Asbestos Abatement, 643.225 through 643.250; 10 CSR 10-6.080, *Emission Standards for Hazardous Air Pollutants, Subpart M, National Standards for Asbestos*; and 10 CSR 10-6.250, *Asbestos Abatement Projects - Certification, Accreditation, and*

Business Exemption Requirements apply to this installation. The installation is subject to these regulations if they undertake any projects that deal with or involve any asbestos containing materials. None of the installation's operating projects underway at the time of this review deal with or involve asbestos containing material. Therefore, the above regulations were not cited in the operating permit. If the installation should undertake any construction or demolition projects in the future that deal with or involve any asbestos containing materials, the installation must follow all of the applicable requirements of the above rules related to that specific project.

10 CSR 10-6.100, *Alternate Emission Limits*

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

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

All combustion equipment at the installation uses pipeline grade natural gas and propane as a back-up fuel. Combustion equipment that uses exclusively pipeline grade natural gas as defined in 40 CFR 72.2 or liquefied petroleum gas as defined by American Society for Testing and Materials (ASTM), or any combination of these fuels is exempt from the requirements of this rule.

**Construction Permit Revisions**

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

1) Construction Permits 1192-007 and 0199-028

All special conditions of construction permit 1192-007 and 0199-028 are superseded by construction permit 032008-001.

2) Construction Permit 0497-005

This permit was issued to construct as-built HPM die caster - single cavity model II-600-A (EP4.1d) and also a 200 THT die caster, S/N 1743 (EP4.1g). This permit contained no special conditions.

3) Construction Permit 1098-009

This permit was issued for the installation of an incinerator. The incinerator was never installed. Therefore the special conditions of this permit do not apply to this facility.

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

None of the New Source Performance Standards (NSPS) apply to this installation.

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

10 CSR 10-6.075, *Maximum Achievable Control Technology Regulations*

40 CFR Part 63, Subpart RRR — *National Emission Standards for Hazardous Air Pollutants Secondary Aluminum Production*, is not applicable to this installation. The requirements of this subpart do not apply to manufacturers of aluminum die castings, aluminum foundries, or aluminum extruders that melt no materials other than clean charge and materials generated within the facility; and that also do not operate a thermal chip dryer, sweat furnace or scrap dryer/delacquering kiln/decoating kiln. [40 CFR 63.1500(d)]

40 CFR Part 63, Subpart M — *National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products*, does not apply due to this installation not being a major source of HAPs [63.3881(b)]. The installation has established an area source status by limiting the source's potential to emit HAPs through the Intermediate Operating Permit.

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

10 CSR 10-6.080, *Emission Standards for Hazardous Air Pollutants, Subpart M, National Standards for Asbestos*

See "Other Air Regulations Determined Not to Apply to the Operating Permit" section of the statement of basis

### Other Regulatory Determinations

- 1) 10 CSR 10-6.260, *Restriction of Emission of Sulfur Compounds*, establishes the maximum allowable concentration of sulfur compounds in source emissions and ambient air. This regulation applies to the die casting machines (EU0010). The regulation limits the amount of sulfur dioxide emissions to 500 parts per million by volume (ppmv) and thirty-five milligrams (35 mg) per cubic meter of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three hour time period from new sources. If the emissions from these emission units can not violate the limits of this rule then evidence of this is demonstrated in the following calculations.

EP4.1a, 4.1b, 4.1c, 4.1d, 4.1e, 4.1f, and 4.1g each:

Maximum hourly design rate = 0.125 ton/hr

SO<sub>2</sub> emission factor = 0.02 lbs/ton (FIRE – SCC: 3-04-001-14)

Stack gas flow rate = 200,000 cf/min

Stack gas temperature = 90°F

SO<sub>2</sub> emission = 0.125 tons/hr x 0.02 lb/ton = 0.0025 lbs/hr

PPMv SO<sub>2</sub> = [lbs SO<sub>2</sub>/hr x Specific volume SO<sub>2</sub>(ft<sup>3</sup>/lb) x 10<sup>6</sup>] ÷ [flow rate(acfm) x 60 min/hr]

$$SO_{2(ppmv)} = \frac{\left(0.0025 \frac{lbs}{hr}\right) \times \left(1545 \frac{ft \cdot lb}{mole \cdot R}\right) \times \left((460 + 90^\circ F)^\circ R\right) \times 10^6}{\left(64 \frac{lbs}{mol}\right) \times \left(14.7 \frac{lbs}{in^2}\right) \times \left(144 \frac{in^2}{ft^2}\right) \times \left(200,000 \frac{ft^3}{min}\right) \times \left(60 \frac{min}{hr}\right)} = 0.001 ppmv$$

and

$$SO_3 \text{ Concentration} = 0.003 \frac{mg}{m^3}$$

EP4.1h and 4.1i each:

Maximum hourly design rate = 0.2 ton/hr  
SO<sub>2</sub> emission factor = 0.02 lbs/ton (FIRE – SCC: 3-04-001-14)  
Stack gas flow rate = 200,000 cf/min  
Stack gas temperature = 90°F  
SO<sub>2</sub> emission = 0.2 tons/hr x 0.02 lb/ton = 0.004 lbs/hr

PPMv SO<sub>2</sub> = [lbs SO<sub>2</sub>/hr x Specific volume SO<sub>2</sub>(ft<sup>3</sup>/lb) x 10<sup>6</sup>] ÷ [flow rate(acfm) x 60 min/hr]

$$SO_{2(ppmv)} = \frac{\left(0.004 \frac{lbs}{hr}\right) \times \left(1545 \frac{ft \cdot lb}{mole \cdot ^\circ R}\right) \times \left((460 + 90^\circ F)^\circ R\right) \times 10^6}{\left(64 \frac{lbs}{mol}\right) \times \left(14.7 \frac{lbs}{in^2}\right) \times \left(144 \frac{in^2}{ft^2}\right) \times \left(200,000 \frac{ft^3}{min}\right) \times \left(60 \frac{min}{hr}\right)} = 0.002 ppmv$$

and

$$SO_3 \text{ Concentration} = 0.005 \frac{mg}{m^3}$$

EP4.1k and 4.1l each:

Maximum hourly design rate = 0.1 ton/hr  
SO<sub>2</sub> emission factor = 0.02 lbs/ton (FIRE – SCC: 3-04-001-14)  
Stack gas flow rate = 200,000 cf/min  
Stack gas temperature = 90°F  
SO<sub>2</sub> emission = 0.1 tons/hr x 0.02 lb/ton = 0.002 lbs/hr

PPMv SO<sub>2</sub> = [lbs SO<sub>2</sub>/hr x Specific volume SO<sub>2</sub>(ft<sup>3</sup>/lb) x 10<sup>6</sup>] ÷ [flow rate(acfm) x 60 min/hr]

$$SO_{2(ppmv)} = \frac{\left(0.002 \frac{lbs}{hr}\right) \times \left(1545 \frac{ft \cdot lb}{mole \cdot ^\circ R}\right) \times \left((460 + 90^\circ F)^\circ R\right) \times 10^6}{\left(64 \frac{lbs}{mol}\right) \times \left(14.7 \frac{lbs}{in^2}\right) \times \left(144 \frac{in^2}{ft^2}\right) \times \left(200,000 \frac{ft^3}{min}\right) \times \left(60 \frac{min}{hr}\right)} = 0.001 ppmv$$

and

$$SO_3 \text{ Concentration} = 0.003 \frac{mg}{m^3}$$

EP4.1m:

Maximum hourly design rate = 0.15 ton/hr  
 SO<sub>2</sub> emission factor = 0.02 lbs/ton (FIRE – SCC: 3-04-001-14)  
 Stack gas flow rate = 200,000 cf/min  
 Stack gas temperature = 90°F  
 SO<sub>2</sub> emission = 0.15 tons/hr x 0.02 lb/ton = 0.003 lbs/hr

$$PPMv\ SO_2 = [\text{lbs } SO_2/\text{hr} \times \text{Specific volume } SO_2(\text{ft}^3/\text{lb}) \times 10^6] \div [\text{flow rate}(\text{acfm}) \times 60 \text{ min/hr}]$$

$$SO_{2(ppmv)} = \frac{\left(0.003 \frac{\text{lbs}}{\text{hr}}\right) \times \left(1545 \frac{\text{ft}\cdot\text{lb}}{\text{mole}^\circ R}\right) \times \left((460+90^\circ F)^\circ R\right) \times 10^6}{\left(64 \frac{\text{lbs}}{\text{mol}}\right) \times \left(14.7 \frac{\text{lbs}}{\text{in}^2}\right) \times \left(144 \frac{\text{in}^2}{\text{ft}^2}\right) \times \left(200,000 \frac{\text{ft}^3}{\text{min}}\right) \times \left(60 \frac{\text{min}}{\text{hr}}\right)} = 0.002 \text{ ppmv}$$

and

$$SO_3 \text{ Concentration} = 0.004 \frac{\text{mg}}{\text{m}^3}$$

Therefore, each of these emission units is in compliance.

2) 10 CSR 10-6.400, *Restriction of Emission of Particulate Matter From Industrial Processes*

10 CSR 10-6.400 limits the amount of particulate matter that is allowed from an emission unit, and is dependent on the process weight rate material processed excluding liquids and gases used solely as fuels and excluding air introduced for purposes of combustion.

a) The emission units to which this rule applies are listed below. The following calculations provide the allowable particulate emission rate based on 10 CSR 10-6.400 and the potential (maximum) emission rate. Process information and data used in these calculations are from the Intermediate Operating Permit Renewal Application, 2007 EIQ, and AP-42 factors.

Also, the following formula from 10 CSR 10-6.400 is used to calculate the PM allowable limit:

$$E = 4.10P^{0.67} \text{ for process weight rates up to 30 tons (60,000 lbs) per hour, and}$$

Where: E = rate of emission in lb/hr; and

P = process weight rate in tons/hr (maximum hourly design rate)

Emission Unit #	Maximum Design Rate	PM Emission Factor	PM Potential Emissions (lb/hr)		PM Allowable Emission Rate (lb/hr)
EU0030	0.175 tons/hr	4.3 lbs/ton	0.75		1.28
EU0040	0.25 tons/hr	4.3 lbs/ton	1.08		1.62
EU0050	0.25 tons/hr	4.3 lbs/ton	1.08		1.62
EU0060	0.165 tons/hr	4.3 lbs/ton	0.71		1.23
EU0070	0.25 tons/hr	4.3 lbs/ton	1.08		1.62
EU0080	0.40 tons/hr	4.3 lbs/ton	1.72		2.22
EU0120	15,500 lbs steel shot/hr	13 lbs/1000 lb	Uncontrolled 201.50	Controlled 2.02	16.17

Emission Units subject to 10 CSR 10-6.400 that have potential uncontrolled PM emissions significantly less than the allowable rate (limit) do not have monitoring/record keeping or reporting requirements.

The PM emissions from the shot blaster (EU0120) is controlled by a baghouse. The baghouse is equipped with an automated monitoring system that monitors the pressure differential across the baghouse. If the pressure drop is not in the normal operating range, an indicator light will light up and stay on until the problem is fixed. There are separate sensors and indicator lights for each type of problems or maintenance activities (i.e. filter rupture, filter plugged, service intervals, etc.)

- b) 10 CSR 10-6.400 was not included as an applicable regulation for the emission units listed below. These units are exempt because the particulate matter potential emissions are less than 0.5 pounds per hour per 10 CSR 10-6.400(1)(B)11.
- i) EP4.1 Die Casters
  - ii) EP32.1 Two (2) Small Paint Spry Booths
  - iii) EP33.1 Paint Booth
  - iv) EP34.1 Paint Booth
  - v) EP2.1 Two (2) Assembly Paint Booths with Paint Filters
  - vi) EP3.1 Assembly Small Paint Booth with Paint Filter
  - vii) EP14.1 Steel Welding Booth
  - viii) EP25.1 Assembly Paint Booth
- c) According to 10 CSR 10-6.400(1)(B)7., the following fugitive sources are not subject to this rule.
- i) EP13.1 – Steel Welding Booth;
  - ii) EP20.1 – Wheelabrator Shot Blaster;
- d) This regulation defines process weight to "exclude liquids and gases used solely as fuels and excluding air introduced for purposes of combustion" under 10 CSR 6.400(2)(A). For the emission source(s) listed below, the throughputs only consist of gaseous fuels and combustion air. Therefore, there are no applicable throughputs for these emission source(s).
- i) EP17.1 Heat Cleaning (Burn Off) Oven
  - ii) EP1.1 Varnish Oven, 2.0 MMBtu/hr Natural Gas-fired
  - iii) EP6.1 Four (4) Dock Space Heaters, 1.6 MMBtu/hr Natural Gas-fired
  - iv) EP10.1 Hot Drop Furnaces, 1.6 MMBtu/hr Natural Gas-fired
  - v) EP21.1 Winding Connect Torches
  - vi) EP30.1 Therm Paint Drying Oven, 0.6 MMBtu/hr Natural Gas-fired
- 3) 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*  
Historically, the electric motors manufacturing plant in Lebanon has not emitted visible emissions while under normal operation. Visible emissions observations will be performed in frequencies as stated in the permit and logged according to the monitoring and record keeping requirements. Detecting visible emissions is an indicator of operating problems and gives the permittee a chance to take corrective actions before exceeding the opacity limit. Conducting Method 9 observations after the observation of visible emissions determines whether the emissions exceed the opacity limit, or

confirm that corrective action has restored operation. Therefore, the tiered monitoring frequency of visible/no visible emissions observations using Method 22 like procedures is considered sufficient.

Though this rule applies also to emission units whose only emissions are from combustion of natural gas or propane, the Air Pollution Control Program does not consider such units to be capable of exceeding the opacity standards of this rule and will not require the installation to conduct visible emissions observations on units whose only emissions are from the combustion of natural gas or propane.

- 4) Emission Units which existed at the time of the application submittal but have subsequently been dismantled:
- EP5.1 Anneal Oven, 1.25 MMBtu/hr Natural Gas-fired;
  - EP12.1 – Aluminum Welding Booth; and
  - EP16.1 Slater Paint Booth with Paint Filter.
  - Also, EP29.1 (Paint Booth) was never installed and the installation no longer plan to install it.

**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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Berhanu A. Getahun  
Environmental Engineer

CERTIFIED MAIL: 70073020000315698050  
RETURN RECEIPT REQUESTED

Mr. David Highley  
Regal - Beloit Electric Motors Group  
401 West Fremont Road  
Lebanon, MO 65536

Re: Regal - Beloit Electric Motors Group, 105-0033  
Permit Number: OP2009-022

Dear Mr. Highley:

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

You may appeal this permit to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within thirty (30) days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If you send your appeal by registered or certified mail, we will deem it filed on the date you mailed it. If you send your appeal by a method other than registered or certified mail, we will deem it filed on the date the AHC receives it.

If you have any questions or need additional information regarding this permit, please do not hesitate to contact Berhanu Getahun with the St. Louis Regional Office, 7545 S. Lindbergh, Suite 210, St. Louis, MO 63125, or by phone at (314) 416-2960. You may also contact me with the Department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102, or by phone 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/bgk

Enclosures

c: Ms. Tamara Freeman, U.S. EPA Region VII  
Southwest Regional Office  
PAMS File: 2007-09-045