



## DEPARTMENT OF NATURAL RESOURCES

## MISSOURI AIR CONSERVATION COMMISSION

## PERMIT TO CONSTRUCT

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

Permit Number: 102015-009

Project Number: 2015-04-076  
Installation Number: 055-5002

Parent Company: Steelville Manufacturing Co.

Parent Company Address: 1056 Perkins Dr., Steelville, Missouri 65565

Installation Name: Steelville Manufacturing Co.

Installation Address: 1056 Perkins Dr., Steelville, Missouri 65565

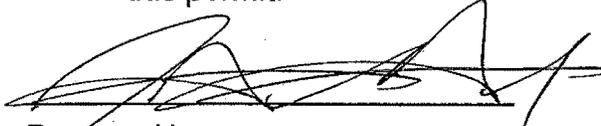
Location Information: Crawford County, S34, T38N, R4W

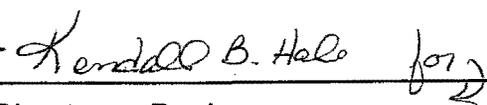
Application for Authority to Construct was made for:

The use of additional coatings. This review was conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

Standard Conditions (on reverse) are applicable to this permit.

Standard Conditions (on reverse) and Special Conditions are applicable to this permit.

  
Prepared by  
Jordan Hindman  
New Source Review Unit

  
Director or Designee  
Department of Natural Resources  
OCT 28 2015

Effective Date

## STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. In the event that there is a discrepancy between the permit application and this permit, the conditions of this permit shall take precedence. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Department's Air Pollution Control Program of the anticipated date of start up of these air contaminant sources. The information must be made available within 30 days of actual startup. Also, you must notify the Department of Natural Resources' regional office responsible for the area within which you are located within 15 days after the actual start up of these air contaminant sources.

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources' personnel upon request.

You may appeal this permit or any of the listed special conditions 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 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant sources(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit at (573) 751-4817. If you prefer to write, please address your correspondence to the Missouri Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention: Construction Permit Unit.

**SPECIAL CONDITIONS:**

The permittee is authorized to construct and operate subject to the following special conditions:

*The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority."*

Steelville Manufacturing Co.  
Crawford County, S34, T38N, R4W

1. **Superseding Condition**  
The conditions of this permit supersede the following special conditions found in the previously issued construction permit 032015-015 issued by the Air Pollution Control Program.
  - A. Special Condition 1.
  - B. Special Condition 2.
  - C. Special Condition 3.
  
2. **Installation-wide VOC and HAP Emission Limitations**
  - A. Steelville Manufacturing Co. shall emit less than 40.0 tons of VOCs in any consecutive 12-month period from the entire installation. This limit applies to the VOC emissions from all equipment and processes installed or permitted at Steelville Manufacturing Co. as of the issuance date of this permit.
  
  - B. Steelville Manufacturing Co. shall emit less than 10.0 tons individually or the applicable Screening Model Action Level (SMAL)—whichever value is less—and less than 25.0 tons combined of HAPs in any consecutive 12-month period from the the entire installation. This limit applies to the HAP emissions from all equipment and processes installed or permitted at Steelville Manufacturing Co. as of the issuance date of this permit.
  
  - C. Attachment AA lists the SMALs for individual HAPs. Attachment A, Attachment B, and Attachment C or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Condition 2.A and 2.B.
  
3. **Control Device Requirement – Overspray and Exhaust Filters**
  - A. Steelville Manufacturing Co. shall control particulate matter and particulate matter-based HAP emissions from the spray paint gun (EP-01) using overspray and exhaust filters as specified in the permit application.

**SPECIAL CONDITIONS:**

The permittee is authorized to construct and operate subject to the following special conditions:

- B. The filters shall be operated and maintained in accordance with the manufacturer's specifications. The spray booth and exhaust systems shall be equipped with a gauge or meter, which indicates the pressure drop across the control device. These gauges or meters shall be located such that Department of Natural Resources' employees may easily observe them.
  - C. Replacement filters shall be kept on hand at all times. The filters shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance).
  - D. Steelville Manufacturing Co. shall monitor and record the operating pressure drop across the filters at least once every 24 hours. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.
  - E. Steelville Manufacturing Co. shall maintain a copy of the filter manufacturer's performance warranty on site.
  - F. Steelville Manufacturing Co. shall maintain an operating and maintenance log for the filters which shall include the following:
    - 1) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
    - 2) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.
4. Operational Requirement – Identification of Coatings and Cleaning Solvents  
Steelville Manufacturing Co. shall keep the coatings, and cleaning solvents in sealed containers whenever the materials are not in use. Steelville Manufacturing Co. shall provide and maintain suitable, easily read, permanent markings on all coatings and cleaning solvent containers used in operations or stored on-site.
5. Operational Requirement – Paint Booth Conditions and Parameters  
A. Steelville Manufacturing Co. shall maintain the paint booth such that the following conditions are met during *all* operational hours. During periods of time in which coatings are being mixed or applied, equipment is being cleaned with methyl ethyl ketone, or any other VOC-, HAP-, PM<sub>2.5</sub>-containing compounds are allowed to emit, all access points and openings (less the natural draft opening) should be completely sealed according to the manufacturer's specifications.

**SPECIAL CONDITIONS:**

The permittee is authorized to construct and operate subject to the following special conditions:

- B. The manufacturer specifications for this paint booth describe that air velocity of up to 210 feet per second is achievable; thus, an initial test for air velocity shall not be required. Steelville Manufacturing Co. shall be able to demonstrate compliance with the complete enclosure requirement using EPA Test Method 204 at any time. Demonstration of EPA Test Method 204 may be required during compliance visits and inspections.
6. Alternative Coating Usage
- A. Before using an alternative coating that differs from the coatings listed in the descriptive tables within this permit, Steelville Manufacturing Co. shall calculate the potential emissions of all HAPs included in each alternative coating material using Attachment D.
  - B. Steelville Manufacturing Co. shall seek approval from Missouri Air Pollution Control Program New Source Review Unit before use of the alternative coating material if the potential to emit for any individual HAP is greater than the respective SMAL. SMALs may be found in Appendix B.
  - C. Steelville Manufacturing Co. shall maintain SDS records for all of the alternative coating materials to demonstrate compliance with Special Condition 6.B. Furthermore, Steelville Manufacturing Co. shall keep detailed records of the specifications for all coatings that are mixed at this installation. These records shall include the total weight percent for all individual HAPs, the total VOC weight percent, and the total density (of the final/mixed product).
7. Record Keeping and Reporting Requirements
- A. Steelville Manufacturing Co. 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 SDS for all materials used.
  - B. Steelville Manufacturing Co. shall report to the Air Pollution Control Program's Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than 10 days after the end of the month during which any record required by this permit show an exceedance of a limitation imposed by this permit.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE  
SECTION (5) REVIEW

Project Number: 2015-04-076  
Installation ID Number: 055-5002  
Permit Number:

Installation Address:  
Steelville Manufacturing Co.  
1056 Perkins Dr.  
Steelville, Missouri 65565

Parent Company:  
Steelville Manufacturing Co.  
1056 Perkins Dr.  
Steelville, Missouri 65565

Crawford County, S34, T38N, R4W

REVIEW SUMMARY

- Steelville Manufacturing Co. has applied for authority to use additional coating in their finish processing operation.
- HAP emissions are expected from the proposed equipment. HAPs of concern from this process are Chromium containing compounds (Chromates or Cr-compounds), Methanol, Benzene containing compounds (Benzenes), 2- Nitropropane, Napthalene, Xylene, Formaldehyde, Ethyl Acrylate, 2-Butoxy Ethyl Acetate, and Methyl Isobutyl Ketone (MIBK).
- None of the New Source Performance Standards (NSPS) apply to the installation.
- 40 CFR 63, Subpart HHHHHH, *National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources*, applies to this application because there are coatings containing Chromium and Chromium derivatives.
- 40 CFR 63, Subpart XXXXXX, *National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories*, applies to this application because Steelville Manufacturing Company also owns and operates an area source primarily engaged in the fabrication of metal products (SIC #3499 for both operations).
- 40 CFR 63, Subpart MMMM, *National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products*, does not apply to the application because it is not a major source of HAPs.
- An overspray collection filtering system is being used to control the particulate HAPs

and particulate matter emissions from the equipment in this permit. An enclosed paint booth with a recirculation fan and an exhaust fan will be used for the capture of these pollutants prior to control via filtration.

- This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of individual HAPs, combined HAPs, and VOCs are conditioned by accepting voluntary annual emissions limitations, and PM<sub>2.5</sub> emissions are conditioned below de minimis levels with the installation and continued use of control devices for particulate and particulate-based HAP emissions.
- This installation is located in Crawford County, an attainment area for all criteria pollutants.
- This installation is not on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. The installation's major source level is 250 tons per year and fugitive emissions are not counted toward major source applicability.
- Emissions testing is not required for the equipment.
- No operating permit is required for this installation.
- Approval of this permit is recommended with control device requirements, coating type limitations, and coating amount limitations special conditions.

#### INSTALLATION DESCRIPTION

Steelville Manufacturing Co. is an aerospace component manufacturer and finish processing operation located in Crawford County, Steelville, Missouri. There was a previously unpermitted machine shop located at this installation; the calculations for the machine shop were included in the installation potential emissions. Finish processing operations will include at least one of the following steps: heat treatment, tumbling, abrasive blasting, masking, priming, and painting. Steelville Manufacturing Company provides finishing operations for components that are aluminum, bronze, steel, copper, mesh, composite, or various other surface types. This permit (project 2015-04-076) applies to new coating usages at an existing installation, site 055-5002; however, this site has been permitted by Missouri Air Pollution Control Program.

The following New Source Review permits have been issued to Steelville Manufacturing Co. from the Air Pollution Control Program.

Table 1: Permit History

Permit Number	Description
032015-015	Installation of a spray coating operation (booths, spray guns, drying room, mixing room).

## PROJECT DESCRIPTION

The primary purpose of this permit is to include additional coatings, update the list of coatings that have been reviewed, as well as to more accurately represent the requirements of the alternative coating assessment Special Condition.

Steelville Manufacturing Co. (SMC) is adding more coatings to their production line for new products in the aerospace industry. The new coatings have a higher VOC content and some higher HAP contents than allowed in Special Condition 3 of Permit 032015-015; therefore, this permit will remove the limits associated with Special Condition 3 of Permit 032015-015, the alternative coating usage (self-assessment) requirement will be modified, and it will re-establish installation-wide limits on individual HAPs and combined HAPs, as well as add an installation-wide VOC emission limitation. A more detailed description of the equipment and processes at SMC can be found in Permit #032015-015.

The VOC, individual HAPs, and combined HAPs will all be tracked on a monthly basis, and the daily coating usages will be calculated on a daily basis as total amount sprayed (rather than total amount mixed). An installation-wide limit on individual HAP and combined HAP emissions is being voluntarily taken by SMC to avoid modeling requirements for HAPs.

The particulate matter and particulate matter-based HAP emissions from the spray coating operation are being controlled by overspray and exhaust collection filters in the spray booths. The requirements for spray booth filters and spray booth setup are outlined in the special conditions of this permit. The monthly coating usages will be tracked based on the individual coating components to account for losses during the mixing process. It is important to note this fact because SMC was previously limited to a daily coating usage, and this permit gives them the freedom to mix coatings in advance and then apply when the products are received from shipping or processed by SMC.

Table 2a indicates the corrected values from Table 1 of the permit (#032015-015); the units of measure were corrected for tracking purposes. Table 2b represents the newly added coating components to which this permit applies. Table 2a and Table 2b, are both to be used in the continued compliance efforts of SMC associated with recordkeeping requirements in this permit by providing the detailed information used in tracking the emissions of this installation.

Table 2a: Tracking Data and Nomenclature (corrected from permit #032015-015)

Coating Material	Individual HAPs Contained	Individual HAPs PTE (lb/gal)	Total HAPs PTE (lb/gal)*	Total VOCs PTE (lb/gal)*	Total PM <sub>2.5</sub> PTE (lb/gal)*
mil-prf-85582 epoxy primer	Methanol (CAS# 67-56-1)	0.0002	0.003	2.83	6.58
	2-Nitropropane (CAS# 79-46-9)	0.003			
mil-pprf-85582 primer	Strontium Chromate (CAS# 7789-06-2)	2.84 (0.73) <sup>1</sup>	2.92	2.79	7.75
	Barium Chromate (CAS# 10294-40-3)	0.088 (0.02) <sup>1</sup>			
44gn49 catalyst	2-Nitropropane (CAS# 79-46-9)	0.003	0.0028	2.83	6.58
44gn49 base	Strontium Chromate (CAS# 7789-06-2)	2.35 (0.60) <sup>1</sup>	2.42	2.70	8.18
	Barium Chromate (CAS# 10294-40-3)	0.073 (0.02) <sup>1</sup>			
8514 wash primer	Methanol (CAS# 67-56-1)	0.18	0.846	5.90	1.54
	Zinc Tetraoxychromate (CAS# 57486-12-1)	0.67 (0.06) <sup>1</sup>			
53039 primer	Methyl Isobutyl Ketone (CAS# 108-10-1)	0.47	0.472	3.20	7.32
mil-prf-23377 catalyst	Methanol (CAS# 67-56-1)	0.004	0.0035	3.10	4.92
mil-prf-23377 base	Strontium Chromate (CAS# 7789-06-2)	2.43 (0.62) <sup>1</sup>	2.50	2.63	10.52
	Methyl Isobutyl Ketone (CAS# 108-10-1)	0.074			
	Ethylbenzene (CAS# 100-41-4)	0.004			
bms10-11 primer	Strontium Chromate (CAS# 7789-06-2)	3.53 (0.90) <sup>1</sup>	3.64	2.80	9.66
	Barium Chromate (CAS# 10294-40-3)	0.11 (0.02) <sup>1</sup>			
	Napthalene (CAS# 91-20-3)	0.003			
mil-prf-85285E base	Xylene (CAS# 1330-20-7)	0.51	0.998	3.85	5.66
	2-Butoxy Ethyl Acetate (CAS# 112-07-2)	0.33			
	Ethylbenzene (CAS# 100-41-4)	0.15			
	Formaldehyde (CAS# 50-00-0)	0.017			
	Ethyl Acrylate (CAS# 140-88-5)	0.001			
mil-prf-85285E catalyst	Formaldehyde (CAS# 50-00-0)	0.014	0.014	2.32	6.63
	Ethyl Acrylate (CAS# 140-88-5)	0.001			
cleaning solvent	Methyl Ethyl Ketone (CAS# 78-93-3)	delisted	delisted	6.73	--

\*Dashes indicate that there is no applicable value for the designated cell in the table.

<sup>1</sup>This is a "Chromium compound". Chromium compounds have varying CAS No.'s. Compounds with Cr (IV) have a combined SMAL limit of 0.002 tpy (4 lbs/yr); compounds with all other forms of Chromium have a combined SMAL limit of 5 tpy. Parentheses indicate the amount of Chromium within the compound (i.e. Strontium Chromate is only comprised of 25.538% Chromium by mass—based on values from the periodic table of elements). The parenthetical value shall be used to calculate emissions for each type of Chromium compound when comparing to the SMALs. The value not in parenthesis shall be used to calculate the total compound weight and is used when comparing to the 10/25 individual HAP and combined HAP totals.

Table 2b: Additional Tracking Data and Nomenclature (added in project #2015-04-076)

Coating Material	Individual HAPs Contained	Individual HAPs PTE (lb/gal)	Total HAPs PTE (lb/gal)*	Total VOCs PTE (lb/gal)*	Total PM <sub>2.5</sub> PTE (lb/gal)*
"020-707"	<i>Methyl Ethyl Ketone</i> (CAS# 78-93-3)	<i>delisted</i>	<i>delisted</i>	6.93	--
"823-707"	<i>4-methylpentan-2-one</i> (CAS# 108-10-1)	3.23	5.33	4.10	6.67
	<i>Strontium Chromate</i> (CAS# 7789-06-2)	1.08 (0.28) <sup>1</sup>			
	<i>Xylene</i> (CAS# 1330-20-7)	0.75			
	<i>Ethylbenzene</i> (CAS# 100-41-4)	0.16			
	<i>Barium Chromate</i> (CAS# 10294-40-3)	0.11 (0.003) <sup>1</sup>			
"910-702"	<i>Diphenylmethane Diisocyanate [4, 4-]</i> (CAS# 101-68-8)	3.94	3.94	0.99	8.87
<b>MIL-PRF-22750 Base</b>	--	--	--	3.00	7.01
<b>MIL-PRF-22750 Curing Agent</b>	--	--	--	2.40	5.60
"519-303"	<i>Strontium Chromate</i> (CAS# 7789-06-2)	0.85 (0.22) <sup>1</sup>	1.36	5.19	3.32
	<i>Xylene</i> (CAS# 1330-20-7)	0.04			
	<i>Toluene</i> (CAS# 108-88-3)	0.43			
	<i>Barium Chromate</i> (CAS# 10294-40-3)	0.04 (0.01) <sup>1</sup>			
<b>Everlube 620C</b>	<i>Toluene</i> (CAS# 108-88-3)	2.63	3.00	6.75	0.75
	<i>Methanol</i> (CAS# 67-56-1)	0.38			

\*Dashes indicate that there is no applicable value for the designated cell in the table.

<sup>1</sup>This is a "Chromium compound". Chromium compounds have varying CAS No.'s. Compounds with Cr (IV) have a combined SMAL limit of 0.002 tpy (4 lbs/yr); compounds with all other forms of Chromium have a combined SMAL limit of 5 tpy. Parentheses indicate the amount of Chromium within the compound (i.e. Strontium Chromate is only comprised of 25.538% Chromium by mass—based on values from the periodic table of elements). The parenthetical value shall be used to calculate emissions for each type of Chromium compound when comparing to the SMALs. The value not in parenthesis shall be used to calculate the total compound weight and is used when comparing to the 10/25 individual HAP and combined HAP totals.

## EMISSIONS/CONTROLS EVALUATION

The PTE for this installation was calculated using material/mass balance based on the material SDSs included in the submitted application. The coating application rate is 1.5 gallons per hour. All VOC emissions were assumed to be unfilterable and 100% released to the atmosphere because there are no VOC-control devices in place. The HAP emissions were also derived from the included SDSs. The particulate matter emissions were calculated using either the ratios provided within the applicable SDSs, or as 100% of the remaining portion of the total density (pounds per gallon), less the total VOC content (pounds per gallon). Emissions from the paint booth associated with Diphenylmethane Diisocyanate [4, 4-] (MDI) were calculated using the American Chemistry Council's MDI Emissions Estimator.

Control efficiencies were taken from several sources. The transfer efficiency of 60% for HVLP spray coating application was taken from the APTI 482, Third Edition, *Sources and Control of Volatile Organic Air Pollutants*, Chapter 5 *Surface Coating*, Section 5.1.3.1 *Spray Coating*. A 95% control efficiency was assumed for the "15g" overspray/exhaust filters, used to control particulate matter and PM-based HAPs emissions from overspray in the paint booth. This control efficiency was taken from the EPA document AP-42. VOC and volatile HAP potential emissions were calculated using mass balance methodology; therefore, all potential emissions are accounted for. The capture efficiency for the four-sided/fully-enclosed paint booth was assumed to be 100% because it is completely sealed, according to the manufacturer's specifications sheet. The 100% capture efficiency assumption is based on passing the criteria set by *EPA Method 204 - Criteria for and Verification of a Permanent or Temporary Total Enclosure*, Section 6. As stated above, the VOC emissions remain uncontrolled because there are no control devices installed for the capture and control of VOCs in this paint booth; the only filterable pollutants are particulate matter and non-volatile HAPs. There are no particle size distributions for this type of painting operation, so the particulate matter emissions are all conservatively assumed to be PM<sub>2.5</sub>.

Table 3 (below) represents the potential emissions of the facility, as well as the potential emissions of the installation because SMC is taking a voluntary installation-wide limit on VOC emissions, individual HAP, and combined HAP emissions. All PM emissions are considered to be PM<sub>2.5</sub>. Potential emissions of PM<sub>2.5</sub> are indirectly conditioned below the de minimis levels by use of control devices and taking the aforementioned voluntary limits.

Table 3: Emissions Summary (tons per year)

Pollutant	Regulatory De Minimis/SMAL Levels	Existing Potential Emissions	Existing Actual Emissions (2014 EIQ)	Potential Emissions of the Application	New Installation Conditioned Potential
PM	25.0	2.07	N/A	1.16	2.07
PM <sub>10</sub>	15.0	2.07	N/A	1.16	2.07
PM <sub>2.5</sub>	10.0	2.07	N/A	1.16	2.07
SO <sub>x</sub>	40.0	0.00001	N/A	N/A	0.00001
NO <sub>x</sub>	40.0	0.0013	N/A	N/A	0.0013
VOC	40.0	<38.76 <sup>2</sup>	N/A	45.53	<40.0
CO	100.0	0.001	N/A	N/A	0.001
GHG (CO <sub>2</sub> e)	75,000 / 100,000	1.21	N/A	N/A	1.21
Individual HAPs*	10.0	3.34	N/A	25.89	<10.0
<i>2-Butoxy Ethyl Acetate</i> (CAS# 112-07-2)	5.0 <sup>1</sup>	2.14	N/A	N/A	2.14
<i>Strontium Chromate</i> (CAS# 7789-06-2)	10.0	N/A	N/A	0.35	N/D
<i>Barium Chromate</i> (CAS# 10294-40-3)	10.0	N/A	N/A	0.035	N/D
<i>Hexavalent Cr</i>	0.002 <sup>1</sup>	<0.002	N/A	0.098	<0.002 <sup>3</sup>
<i>Ethyl Acrylate</i> (CAS# 140-88-5)	1.0 <sup>1</sup>	0.006	N/A	N/A	0.006
<i>Ethyl Benzene</i> (CAS# 100-41-4)	10.0 <sup>1</sup>	0.96	N/A	1.06	1.06
<i>Formaldehyde</i> (CAS# 50-00-0)	2.0 <sup>1</sup>	0.11	N/A	N/A	0.11
<i>Methanol</i> (CAS# 67-56-1)	10.0 <sup>1</sup>	1.17	N/A	2.46	2.46
<i>Methyl Isobutyl Ketone</i> (CAS# 108-10-1)	10.0 <sup>1</sup>	3.10	N/A	21.22	<10.0
<i>Napthalene</i> (CAS# 91-20-3)	10.0 <sup>1</sup>	0.02	N/A	N/A	0.02
<i>2-Nitropropane</i> (CAS# 79-46-9)	1.0 <sup>1</sup>	0.02	N/A	N/A	0.02
<i>Xylene</i> (CAS# 1330-20-7)	10.0 <sup>1</sup>	3.34	N/A	4.95	4.95
<i>Diphenylmethane Diisocyanate [4, 4-]</i> (CAS# 101-68-8)	0.1 <sup>1</sup>	N/A	N/A	<0.00	<0.1
<i>Toluene</i> (CAS# 108-88-3)	10.0 <sup>1</sup>	N/A	N/A	17.25	<10.0
Combined HAPs	25.0	6.55	N/A	35.03	<25.0

N/A = Not Applicable; N/D = Not Determined

\*Italics represent individual HAPs contained in this permit analysis

<sup>1</sup>SMAL – Screening Model Action Level

<sup>2</sup>This emission limit was associated with the alternative coating assessment special condition in permit #032015-015; this has been replaced by the installation-wide VOC limit.

<sup>3</sup>These limits are re-established as installation-wide annual limits in this permit.

## PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of individual HAPs, combined HAPs, and VOCs are conditioned by accepting voluntary annual emissions limitations. PM<sub>2.5</sub> emissions are conditioned below de minimis levels with the installation and continued use of control devices for particulate and particulate-based HAP emissions.

## APPLICABLE REQUIREMENTS

Steeleville Manufacturing Co. shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved. For a complete list of applicable requirements for your installation, please consult your operating permit.

## GENERAL REQUIREMENTS

- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110
- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, 10 CSR 10-6.170
- *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-6.220
- *Restriction of Emission of Odors*, 10 CSR 10-6.165

## SPECIFIC REQUIREMENTS

- *MACT Regulations*, 10 CSR 10-6.075
  - 40 CFR Part 63, Subpart HHHHHH, *National Emission Standards for Hazardous Air Pollutants for Source Categories: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources*.
  - 40 CFR 63, Subpart XXXXXX, *National Emission Standards for Hazardous Air Pollutants for Source Categories: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories*
- *Restriction of Particulate Matter Emissions From Fuel Burning Equipment Used for Indirect Heating*, 10 CSR 10-6.405

## STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, it is recommended that this permit be granted with special conditions.

#### PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated July 6, 2015, received July 6, 2015, designating Steelville Manufacturing Co. as the owner and operator of the installation.



<sup>c</sup>To get the uncontrolled PTE for volatile HAPs, multiply the “Individual HAP Content” column by the “Gallons Used” column, then divide by “2000 lb/ton”. If the individual HAP being calculated is a particulate-based (non-volatile) HAP, then apply a transfer/control efficiency factor of 98%. This can be done by multiplying the uncontrolled value obtained in this step by “0.02” to calculate the PTE for non-volatile HAPs.

<sup>d</sup>Add all values for each respective HAP in this column together and keep a running monthly total; add this value to the previous 11 month totals. This value shall never exceed **10.0 tons** for **any** individual HAP or HAP group (e.g. chromium compounds) contained in the coating materials over any consecutive 12-month period.

<sup>e</sup>Add all values for each respective HAP in this column together and keep a running monthly total; add this value to the previous 11 month totals. This value shall never exceed **the SMAL** (listed in Appendix B) **for** individual HAP or HAP group contained in the coating materials over any consecutive 12-month period. For metal HAPs, only the metal portion is compared to the SMAL.

{Please note when comparing Individual HAP or HAP groups to 10.0 tpy, the weight of the whole compound should be used. When comparing metal HAP groups to the SMAL, use only weight of the metal portion of the compound.}





### Attachment D: Alternative Coating Assessment Worksheet (Individual HAPs)

Steelville Manufacturing Co.  
 Crawford County, S34, T38N, R4W  
 Project: 2015-04-076  
 Installation ID: 055-5002  
 Permit:

Coating or material name \_\_\_\_\_ Date \_\_\_\_\_ Copy this sheet as needed.

A	B	C	D	E	F	G	H
Process and Emission Unit	Individual HAP Name and CAS No.	HAP is also Particulate Matter (Yes / No)	Individual HAP Content (lb/gal)	Maximum Hourly Application Rate (gallons/hour)	Overall Transfer and Control Efficiency (%)	Individual HAP PTE (tpy)	Individual HAP SMAL (tpy)
<i>(Example)</i>	<i>Strontium Chromate 7789-06-2</i>	<i>Yes</i>	<i>0.28</i>	<i>1.50</i>	<i>98.0%</i>	<i>0.113</i>	<i>0.002</i>
<i>(Example)</i>	<i>Xylene 1330-20-7</i>	<i>No</i>	<i>0.75</i>	<i>1.50</i>	<i>N/A</i>	<i>0.0004</i>	<i>10.0</i>
				1.50			
				1.50			
				1.50			
				1.50			
				1.50			
				1.50			
				1.50			

- (a) Record the process description and emission unit.
- (b) Record all the individual HAPs from this single coating/material SDS.
- (c) Compare the HAP to Appendix B for verification as particulate matter.
- (d) If the coating material is pre-mixed, record the maximum weight (lb/gal) of each HAP from the SDS; if the coating material is mixed at the facility, record the maximum weight (lb/gal) of each HAP according to the specifications to which the coating is mixed. Note for metal HAPs, only the metal portion of the compound is compared to the SMAL.
- (e) Maximum hourly application rate is equal to 1.50 gal/hour.
- (f) The overall PM transfer and control efficiency includes the HPLV gun transfer efficiency (60%), booth capture efficiency (100%), and filter system control efficiency (95%):  $\{1 - [(1 - 60\%) \times (1 - 95\%) \times (100\%)]\} \times 100 = 98.0\%$ .
- (g) Calculate the individual HAP potential to emit:  $G = D \times E \times (1 - F) \times 8,760 / 2,000$ .
- (h) Record the individual HAP SMAL from Appendix B. If the individual HAP potential to emit is greater than or equal to the respective SMAL seek approval from the Air Pollution Control Program New Source Review Unit before using this coating.

## APPENDIX A

### Abbreviations and Acronyms

<b>%</b> .....	percent	<b>m/s</b> .....	meters per second
<b>°F</b> .....	degrees Fahrenheit	<b>Mgal</b> .....	1,000 gallons
<b>acfm</b> .....	actual cubic feet per minute	<b>MW</b> .....	megawatt
<b>BACT</b> .....	Best Available Control Technology	<b>MHDR</b> .....	maximum hourly design rate
<b>BMPs</b> .....	Best Management Practices	<b>MMBtu</b> ....	Million British thermal units
<b>Btu</b> .....	British thermal unit	<b>MMCF</b> .....	million cubic feet
<b>CAM</b> .....	Compliance Assurance Monitoring	<b>MSDS</b> .....	Material Safety Data Sheet
<b>CAS</b> .....	Chemical Abstracts Service	<b>NAAQS</b> ...	National Ambient Air Quality Standards
<b>CEMS</b> .....	Continuous Emission Monitor System	<b>NESHAPs</b>	National Emissions Standards for Hazardous Air Pollutants
<b>CFR</b> .....	Code of Federal Regulations	<b>NO<sub>x</sub></b> .....	nitrogen oxides
<b>CO</b> .....	carbon monoxide	<b>NSPS</b> .....	New Source Performance Standards
<b>CO<sub>2</sub></b> .....	carbon dioxide	<b>NSR</b> .....	New Source Review
<b>CO<sub>2e</sub></b> .....	carbon dioxide equivalent	<b>PM</b> .....	particulate matter
<b>COMS</b> .....	Continuous Opacity Monitoring System	<b>PM<sub>2.5</sub></b> .....	particulate matter less than 2.5 microns in aerodynamic diameter
<b>CSR</b> .....	Code of State Regulations	<b>PM<sub>10</sub></b> .....	particulate matter less than 10 microns in aerodynamic diameter
<b>dscf</b> .....	dry standard cubic feet	<b>ppm</b> .....	parts per million
<b>EQ</b> .....	Emission Inventory Questionnaire	<b>PSD</b> .....	Prevention of Significant Deterioration
<b>EP</b> .....	Emission Point	<b>PTE</b> .....	potential to emit
<b>EPA</b> .....	Environmental Protection Agency	<b>RACT</b> .....	Reasonable Available Control Technology
<b>EU</b> .....	Emission Unit	<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>SDS</b> .....	Safety Data Sheet
<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>lbs/hr</b> .....	pounds per hour	<b>VOC</b> .....	Volatile Organic Compound
<b>MACT</b> .....	Maximum Achievable Control Technology		
<b>µg/m<sup>3</sup></b> .....	micrograms per cubic meter		

## Appendix B: Table of Hazardous Air Pollutants and Screening Model Action Levels

Chemical	CAS #	SMAL (tons/yr)	Group ID	VOC	PM	Chemical	CAS #	SMAL (tons/yr)	Group ID	VOC	PM	Chemical	CAS #	SMAL (tons/yr)	Group ID	VOC	PM
ACETALDEHYDE	75-07-0	9		Y	N	CARBARYL	63-25-2	10	V	Y	Y	DICHLOROPROPANE, [1,2-]	78-87-5	1		Y	N
ACETAMIDE	60-35-5	1		Y	N	CARBON DISULFIDE	75-15-0	1		Y	N	DICHLOROPROPENE, [1,3-]	542-75-6	1		Y	N
ACETONITRILE	75-05-8	4		Y	N	CARBON TETRACHLORIDE	56-23-5	1		Y	N	DICHLORVOS	62-73-7	0.2		Y	N
ACETOPHENONE	98-86-2	1		Y	N	CARBONYL SULFIDE	463-58-1	5		Y	N	DIETHANOLAMINE	111-42-2	5		Y	N
ACETYLAMINOFLUORINE, [2-]	53-96-3	0.005	V	Y	Y	CATECHOL	120-80-9	5		Y	N	DIETHYL SULFATE	64-67-5	1		Y	N
ACROLEIN	107-02-8	0.04	Y	Y	N	CHLORAMBEN	133-90-4	1	Y	Y	Y	DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	5	P	Y	N
ACRYLAMIDE	79-06-1	0.02	Y	Y	N	CHLORDANE	57-74-9	0.01	Y	Y	Y	DIMETHOXYBENZIDINE, [3,3-]	119-90-4	0.1	V	Y	Y
ACRYLIC ACID	79-10-7	0.6	Y	N	N	CHLORINE	7782-50-5	0.1	N	N	N	DIMETHYL BENZIDINE, [3,3-]	119-93-7	0.008	V	Y	Y
ACRYLONITRILE	107-13-1	0.3	Y	N	N	CHLOROACETIC ACID	79-11-8	0.1	Y	N	N	DIMETHYL CARBAMOYL CHLORIDE	79-44-7	0.02		Y	N
ALLYL CHLORIDE	107-05-1	1	Y	N	N	CHLOROACETOPHENONE, [2-]	532-27-4	0.06	Y	N	N	DIMETHYL FORMAMIDE	68-12-2	1		Y	N
AMINOBIHENYL, [4-]	92-67-1	1	V	Y	N	CHLOROBENZENE	108-90-7	10	Y	N	N	DIMETHYL HYDRAZINE, [1,1-]	57-14-7	0.008		Y	N
ANILINE	62-53-3	1	Y	N	N	CHLOROBENZILATE	510-15-6	0.4	V	Y	Y	DIMETHYL PHTHALATE	131-11-3	10		Y	N
ANISIDINE, [ORTHO-]	90-04-0	1	Y	N	N	CHLOROFORM	67-66-3	0.9	Y	N	N	DIMETHYL SULFATE	77-78-1	0.1		Y	N
ANTHRACENE	120-12-7	0.01	V	Y	N	CHLOROMETHYL METHYL ETHER	107-30-2	0.1	Y	N	N	DIMETHYLAMNOAZOBENZENE, [4-]	60-11-7	1		Y	N
ANTIMONY COMPOUNDS		5	H	N	Y	CHLOROPRENE	126-99-8	1	Y	N	N	DIMETHYLANILINE, [N-N-]	121-69-7	1		Y	N
ANTIMONY PENTAFLUORIDE	7783-70-2	0.1	H	N	Y	CHROMIUM (VI) COMPOUNDS		0.002	L	N	Y	DINITRO-O-CRESOL, [4,6-] (Note 6)	534-52-1	0.1	E	Y	Y
ANTIMONY POTASSIUM TARTRATE	28300-74-5	1	H	N	Y	CHROMIUM COMPOUNDS		5	L	N	Y	DINITROPHENOL, [2,4-]	51-28-5	1		Y	N
ANTIMONY TRIOXIDE	1309-64-4	1	H	N	Y	CHRYSENE	218-01-9	0.01	V	Y	N	DINITROTOLUENE, [2,4-]	121-14-2	0.02		Y	N
ANTIMONY TRISULFIDE	1345-04-6	0.1	H	N	Y	COBALT COMPOUNDS		0.1	M	N	Y	DIOXANE, [1,4-]	123-91-1	6		Y	N
ARSENIC COMPOUNDS		0.005	I	N	Y	COKE OVEN EMISSIONS	8007-45-2	0.03	N	Y	N	DIPHENYLHYDRAZINE, [1,2-]	122-66-7	0.09	V	Y	Y
ASBESTOS	1332-21-4	0	A	N	Y	CRESOL, [META-]	108-39-4	1	B	Y	N	DIPHENYLMETHANE DIISOCYANATE, [4,4-]	101-68-8	0.1	V	Y	N
BENZ(A)ANTHRACENE	56-55-3	0.01	V	Y	N	CRESOL, [ORTHO-]	95-48-7	1	B	Y	N	EPICHLOROHYDRIN	106-89-8	2		Y	N
BENZENE	71-43-2	2	Y	N	N	CRESOL, [PARA-]	106-44-5	1	B	Y	N	ETHOXYETHANOL, [2-]	110-80-5	10	P	Y	N
BENZIDINE	92-87-5	0.0003	V	Y	N	CRESOLS (MIXED ISOMERS)	1319-77-3	1	B	Y	N	ETHOXYETHYL ACETATE, [2-]	111-15-9	5	P	Y	N
BENZO(A)PYRENE	50-32-8	0.01	V	Y	N	CUMENE	98-82-8	10	Y	N	N	ETHYL ACRYLATE	140-88-5	1		Y	N
BENZO(B)FLUORANTHENE	205-99-2	0.01	V	Y	N	CYANIDE COMPOUNDS		0.1	O	Y	N	ETHYL BENZENE	100-41-4	10		Y	N
BENZO(K)FLUORANTHENE	207-08-9	0.01	V	Y	N	DDE	72-55-9	0.01	V	Y	Y	ETHYL CHLORIDE	75-00-3	10		Y	N
BENZOTRICHLORIDE	98-07-7	0.006	Y	N	N	DI[2-ETHYLHEXYL] PHTHALATE, (DEHP)	117-81-7	5	Y	N	N	ETHYLENE GLYCOL	107-21-1	10		Y	N
BENZYL CHLORIDE	100-44-7	0.1	Y	N	N	DIAMINOTOLUENE, [2,4-]	95-80-7	0.02	Y	N	N	ETHYLENE GLYCOL MONOBUTYL ETHER (Delisted)	111-76-2				
BERYLLIUM COMPOUNDS		0.008	J	N	Y	DIAZOMETHANE	334-88-3	1	Y	N	N	ETHYLENE GLYCOL MONOHEXYL ETHER	112-25-4	5	P	Y	N
BERYLLIUM SALTS		2E-05	J	N	Y	DIBENZ(A,H)ANTHRACENE	53-70-3	0.01	V	Y	N	ETHYLENE IMINE [AZIRIDINE]	151-56-4	0.003		Y	N
BIPHENYL, [1,1-]	92-52-4	10	V	Y	N	DIOXINS/FURANS		6E-07	D,V	Y	N	ETHYLENE OXIDE	75-21-8	0.1		Y	N
BIS(CHLOROETHYL)ETHER	111-44-4	0.06	Y	N	N	DIBENZOFURAN	132-64-9	5	V	Y	N	ETHYLENE THIOUREA	96-45-7	0.6		Y	Y
BIS(CHLOROMETHYL)ETHER	542-88-1	0.0003	Y	N	N	DIBROMO-3-CHLOROPROPANE, [1,2-]	96-12-8	0.01	Y	N	N	FORMALDEHYDE	50-00-0	2		Y	N
BROMOFORM	75-25-2	10	Y	N	N	DIBROMOETHANE, [1,2-]	106-93-4	0.1	Y	N	N	GLYCOL ETHER (ETHYLENE GLYCOL ETHERS)		5	P	Y	N
BROMOMETHANE	74-83-9	10	Y	N	N	DIBUTYL PHTHALATE	84-74-2	10	Y	Y	Y	GLYCOL ETHER (DIETHYLENE GLYCOL ETHERS)		5	P	Y	N
BUTADIENE, [1,3-]	106-99-0	0.07	Y	N	N	DICHLOROBENZENE, [1,4-]	106-46-7	3	Y	N	N	HEPTACHLOR	76-44-8	0.02		Y	N
BUTOXYETHANOL ACETATE, [2-]	112-07-2	5	P	Y	N	DICHLOROBENZIDENE, [3,3-]	91-94-1	0.2	V	Y	Y	HEXACHLOROBENZENE	118-74-1	0.01		Y	N
BUTYLENE OXIDE, [1,2-]	106-88-7	1	Y	N	N	DICHLOROETHANE, [1,1-]	75-34-3	1	Y	N	N	HEXACHLOROBUTADIENE	87-68-3	0.9		Y	N
CADMIUM COMPOUNDS		0.01	K	N	Y	DICHLOROETHANE, [1,2-]	107-06-2	0.8	Y	N	N	HEXACHLOROCYCLOHEXANE, [ALPHA-]	319-84-6	0.01	F	Y	N
CALCIUM CYANAMIDE	156-62-7	10	Y	Y	Y	DICHLOROETHYLENE, [1,1-]	75-35-4	0.4	Y	N	N	HEXACHLOROCYCLOHEXANE, [BETA-]	319-85-7	0.01	F	Y	N
CAPROLACTAM (Delisted)	105-60-2					DICHLOROMETHANE	75-09-2	10	N	N	N	HEXACHLOROCYCLOHEXANE, [DELTA-]	319-86-8	0.01	F	Y	N
CAPTAN	133-06-2	10	Y	Y	Y	DICHLOROPHENOXY ACETIC ACID, [2,4-]	94-75-7	10	C	Y	Y	HEXACHLOROCYCLOHEXANE, [TECHNICAL]	608-73-1	0.01	F	Y	N

## Appendix B: Table of Hazardous Air Pollutants and Screening Model Action Levels

Chemical	CAS #	SMAL (tons/yr)	Group ID	VOC	PM	Chemical	CAS #	SMAL (tons/yr)	Group ID	VOC	PM	Chemical	CAS #	SMAL (tons/yr)	Group ID	VOC	PM
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.1		Y	N	NITROSODIMETHYLAMINE, [N-]	62-75-9	0.001		Y	N	TRIMETHYLPENTANE, [2,2,4-]	540-84-1	5		Y	N
HEXACHLOROETHANE	67-72-1	5		Y	N	NITROSOMORPHOLINE, [N-]	59-89-2	1		Y	N	URETHANE [ETHYL CARBAMATE]	51-79-6	0.8		Y	N
HEXAMETHYLENE,-1,6-DIISOCYANATE	822-06-0	0.02		Y	N	NITroso-N-METHYLUREA, [N-]	684-93-5	0.0002		Y	N	VINYL ACETATE	108-05-4	1		Y	N
HEXAMETHYLPHOSPHORAMIDE	680-31-9	0.01		Y	N	OCTACHLORONAPHTHALENE	2234-13-1	0.01	V	Y	N	VINYL BROMIDE	593-60-2	0.6		Y	N
HEXANE, [N-]	110-54-3	10		Y	N	PARATHION	56-38-2	0.1		Y	Y	VINYL CHLORIDE	75-01-4	0.2		Y	N
HYDRAZINE	302-01-2	0.004		N	N	PCB [POLYCHLORINATED BIPHENYLS]	1336-36-3	0.009	X	Y	Y	XYLENE, [META-]	108-38-3	10	G	Y	N
HYDROGEN CHLORIDE	7647-01-0	10		N	N	PENTACHLORONITROBENZENE	82-68-8	0.3		Y	N	XYLENE, [ORTHO-]	95-47-6	10	G	Y	N
HYDROGEN FLUORIDE	7664-39-3	0.1		N	N	PENTACHLOROPHENOL	87-86-5	0.7		Y	N	XYLENE, [PARA-]	106-42-3	10	G	Y	N
HYDROQUINONE	123-31-9	1		Y	N	PHENOL	108-95-2	0.1	Y	Y	N	XYLENES (MIXED ISOMERS)	1330-20-7	10	G	Y	N
INDENO(1,2,3CD)PYRENE	193-39-5	0.01	V	Y	N	PHENYLENEDIAMINE, [PARA-]	106-50-3	10		Y	N						
ISOPHORONE	78-59-1	10		Y	N	PHOSGENE	75-44-5	0.1		Y	N						
LEAD COMPOUNDS		0.01	Q	N	Y	PHOSPHINE	7803-51-2	5		N	N						
LINDANE [GAMMA-HEXACHLOROCYCLOHEXANE]	58-89-9	0.01	F	Y	N	PHOSPHOROUS (YELLOW OR WHITE)	7723-14-0	0.1		N	N	Legend					
MALEIC ANHYDRIDE	108-31-6	1		Y	N	PHTHALIC ANHYDRIDE	85-44-9	5		Y	N	Group ID	Aggregate Group Name				
MANGANESE COMPOUNDS		0.8	R	N	Y	POLYCYLIC ORGANIC MATTER		0.01	V	Y	N	A	Asbestos				
MERCURY COMPOUNDS		0.01	S	N	N	PROPANE SULTONE, [1,3-]	1120-71-4	0.03		Y	Y	B	Cresols/Cresylic Acid (isomers and mixtures)				
METHANOL	67-56-1	10		Y	N	PROPIOLACTONE, [BETA-]	57-57-8	0.1		Y	N	C	2,4 - D, Salts and Esters				
METHOXYCHLOR	72-43-5	10	V	Y	Y	PROPIONALDEHYDE	123-38-6	5		Y	N	D	Dibenzofurans, Dibenzodioxins				
METHOXYETHANOL, [2-]	109-86-4	10	P	Y	N	PROPOXUR [BAYGON]	114-26-1	10		Y	Y	E	4, 6 Dinitro-o-cresol, and Salts				
METHYL CHLORIDE	74-87-3	10		Y	N	PROPYLENE OXIDE	75-56-9	5		Y	N	F	Lindane (all isomers)				
METHYL ETHYL KETONE (Delisted)	78-93-3					PROPYLENEIMINE, [1,2-]	75-55-8	0.003		Y	N	G	Xylenes (all isomers and mixtures)				
METHYL HYDRAZINE	60-34-4	0.06		Y	N	QUINOLINE	91-22-5	0.006		Y	N	H	Antimony Compounds				
METHYL IODIDE	74-88-4	1		Y	N	QUINONE	106-51-4	5		Y	N	I	Arsenic Compounds				
METHYL ISOBUTYL KETONE	108-10-1	10		Y	N	RADIONUCLIDES		Note 1	Y	N	Y	J	Beryllium Compounds				
METHYL ISOCYANATE	624-83-9	0.1		Y	N	SELENIUM COMPOUNDS		0.1	W	N	Y	K	Cadmium Compounds				
METHYL METHACRYLATE	80-62-6	10		Y	N	STYRENE	100-42-5	1		Y	N	L	Chromium Compounds				
METHYL TERT-BUTYL ETHER	1634-04-4	10		Y	N	STYRENE OXIDE	96-09-3	1		Y	N	M	Cobalt Compounds				
METHYLCYCLOPENTADIENYL MANGANESE	12108-13-3	0.1	R	N	Y	TETRACHLORODIBENZO-P-DIOXIN,[2,3,7,8]	1746-01-6	6E-07	D,V	Y	Y	N	Coke Oven Emissions				
METHYLENE BIS(2-CHLOROANILINE), [4,4-]	101-14-4	0.2	V	Y	Y	TETRACHLOROETHANE, [1,1,2,2-]	79-34-5	0.3		Y	N	O	Cyanide Compounds				
METHYLENEDIANILINE, [4,4-]	101-77-9	1	V	Y	N	TETRACHLOROETHYLENE	127-18-4	10		N	N	P	Glycol Ethers				
METHYLNAPHTHALENE, [2-]	91-57-6	0.01	V	Y	N	TITANIUM TETRACHLORIDE	7550-45-0	0.1		N	N	Q	Lead Compounds (except elemental Lead)				
MINERAL FIBERS		0	T	N	Y	TOLUENE	108-88-3	10		Y	N	R	Manganese Compounds				
NAPHTHALENE	91-20-3	10	V	Y	N	TOLUENE DIISOCYANATE, [2,4-]	584-84-9	0.1	Y	Y	N	S	Mercury Compounds				
NAPHTHYLAMINE, [ALPHA-]	134-32-7	0.01	V	Y	N	TOLUIDINE, [ORTHO-]	95-53-4	4		Y	N	T	Fine Mineral Fibers				
NAPHTHYLAMINE, [BETA-]	91-59-8	0.01	V	Y	N	TOXAPHENE	8001-35-2	0.01		Y	N	U	Nickel Compounds				
NICKEL CARBONYL	13463-39-3	0.1	U	N	Y	TRICHLOROETHANE, [1,2,4-]	120-82-1	10		Y	N	V	Polycyclic Organic Matter				
NICKEL COMPOUNDS		1	U	N	Y	TRICHLOROETHANE, [1,1,1-]	71-55-6	10		N	N	W	Selenium Compounds				
NICKEL REFINERY DUST		0.08	U	N	Y	TRICHLOROETHANE, [1,1,2-]	79-00-5	1		Y	N	X	Polychlorinated Biphenyls (Aroclors)				
NICKEL SUBSULFIDE	12035-72-2	0.04	U	N	Y	TRICHLOROETHYLENE	79-01-6	10		Y	N	Y	Radionuclides				
NITROBENZENE	98-95-3	1		Y	N	TRICHLOROPHENOL, [2,4,5-]	95-95-4	1		Y	N						
NITROBIPHENYL, [4-]	92-93-3	1	V	Y	N	TRICHLOROPHENOL, [2,4,6-]	88-06-2	6		Y	N						
NITROPHENOL, [4-]	100-02-7	5		Y	N	TRIETHYLAMINE	121-44-8	10		Y	N	Note 1	The SMAL for radionuclides is defined as the effective dose equivalent to 0.3 millirems per year for 7 years exposure associated with a cancer risk of 1 in 1 million				
NITROPROPANE, [2-]	79-46-9	1		Y	N	TRIFLURALIN	1582-09-8	9		Y	Y						

Mr. Robby Harris  
Paint Department Manager  
Steelville Manufacturing Co.  
PO Box 919  
Steelville, Missouri 65565

RE: New Source Review Permit - Project Number: 2015-04-076

Dear Mr. Harris:

Enclosed with this letter is your permit to construct. Please study it carefully and refer to Appendix A for a list of common abbreviations and acronyms used in the permit. Also, note the special conditions on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions, your new source review permit application and with your operating permit is necessary for continued compliance. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the administrative hearing commission, whose contact information is: Administrative Hearing Commission, Truman State Office Building, Jefferson City, Missouri 65102, phone: [www.oa.mo.gov/ahc](http://www.oa.mo.gov/ahc). If you have any questions regarding this permit, contact Jordan Hindman, at the Department of Natural Resources' Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Susan Heckenkamp  
New Source Review Unit Chief

SH:jhl

Enclosures

c: Southeast Regional Office  
PAMS File: 2015-04-076  
Permit Number: