



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: **022013-006**

Project Number: 2012-10-058
Installation Number: 183-0252

Parent Company: Custom Metal Products

Parent Company Address: 5781 Westwood Drive, Weldon Spring, MO 63304

Installation Name: Custom Metal Products

Installation Address: 5783 Westwood Drive, Weldon Spring, MO 63304

Location Information: St. Charles County, LG 1669

Application for Authority to Construct was made for:

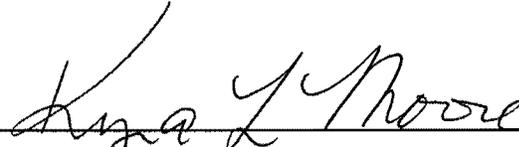
The installation of a facility that cuts, welds, and paints pieces of metal to fabricate products. This review was conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

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

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

FEB 28 2013

EFFECTIVE DATE



DIRECTOR OR DESIGNEE
DEPARTMENT OF NATURAL RESOURCES

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 startup 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 startup 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.

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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."

Custom Metal Products
St. Charles County, LG 1669

1. Ethylene Oxide Emission Limitation
 - A. Custom Metal Products shall emit less than 0.1 tons of Ethylene Oxide (CAS# 75-21-8) in any consecutive 12-month period from the entire installation (see Table 1 below).

Table 1: Installation-Wide Emission Points

Emission Point	Description
EU-1	Surface Coating Spray Gun
EU-2	Welding

- B. Attachment A or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Condition 1.A.
2. Control Device Requirement – Surface Coating Booths and Filters
 - A. Custom Metal Products shall control emissions from the spray guns (EU-1) using booths/buildings and mat/panel exhaust filters.
 - B. Each booth/building shall be completely enclosed (doors and windows closed) while spray surface coating occurs. Exhaust fan(s) shall be operating.
 - C. The filters shall be operated and maintained in accordance with the manufacturer's specifications, which shall be kept on site.
 - D. 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).
 - E. Custom Metal Products shall maintain an operating and maintenance log for the filters which shall include the following:

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SPECIAL CONDITIONS:

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

- 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.
3. Use of Alternative Coatings in the Surface Coating Spray Gun (EU-1)
- A. When considering using an alternative material in the spray guns that is different than a material listed in the Application for Authority to Construct, Custom Metal Products shall calculate the potential emissions of each individual HAP in the alternative material and VOC in the alternative material.
 - B. Custom Metal Products shall seek approval from the Air Pollution Control Program before use of the alternative material if the potential individual HAP emissions for the alternative material are equal to or greater than the screening model action level (SMAL) for any chemical listed in Appendix B or if the total VOC potential emissions exceed 13.96 tons per year.
 - C. Custom Metal Products may scale (ratio) the potential emissions of the individual HAP and VOC to the limitations stated in Special Condition 1. If the potential HAP emissions for the alternative material is equal to or greater than the SMAL, then Custom Metal Products must seek approval from the Air Pollution Control Program before use of the alternative material. If the total VOC potential emissions exceed 13.96 tons per year, then Custom Metal Products must seek approval from the Air Pollution Control Program before use of the alternative material.
 - D. Attachment B or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to show compliance with Special Condition 3.A and 3.B.
4. Operational Requirement - Solvent Cloths
- A. Custom Metal Products shall keep the solvents and cleaning solutions in sealed containers whenever the materials are not in use. Custom Metal Products shall provide and maintain suitable, easily read, permanent markings on all solvent and cleaning solution containers used with this equipment.

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SPECIAL CONDITIONS:

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

5. Record Keeping and Reporting Requirements
 - A. Custom Metal Products 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 MSDS for all materials used.
 - B. Custom Metal Products shall report to the Air Pollution Control Program's Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten 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: 2012-10-058
Installation ID Number: 183-0252
Permit Number:

Custom Metal Products
5783 Westwood Drive
Weldon Spring, MO 63304

Complete: October 29, 2012

Parent Company:
Custom Metal Products
5781 Westwood Drive
Weldon Spring, MO 63304

St. Charles County, LG 1669

REVIEW SUMMARY

- Custom Metal Products has applied for authority to install a facility that cuts, welds, and paints pieces of metal to fabricate products.
- HAP emissions are expected from the proposed equipment. HAPs of concern from this process are toluene (CAS# 108-88-3), 1,4-dioxane (CAS# 123-91-1), acetaldehyde (CAS# 75-07-0), benzene (CAS# 71-43-2), ethylene oxide (CAS# 75-21-8), propylene oxide (CAS# 75-56-9), ethyl benzene (CAS# 100-41-4), benzyl chloride (CAS# 100-44-7), 2-(2-butoxyethoxy) ethanol (CAS# 112-34-5), chromium (CAS# 7440-47-3), cobalt (CAS# 7440-48-4), manganese (CAS# 7439-96-5), and nickel (CAS# 7440-02-0).
- None of the New Source Performance Standards (NSPS) apply to the installation.
- None of the NESHAPs apply to this installation. None of the currently promulgated MACT regulations apply to the proposed equipment.
- 40 CFR Part 63, Subpart XXXXXX *National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories*, does not apply as the installation does not meet the emission levels for HAPs.
- 40 CFR Part 63, Subpart MMMM *National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products*, does not apply because the installation is not a major source of HAPs.
- A panel filter is being used to control the PM_{2.5}, PM₁₀, and PM emissions from the surface coating spray gun (EU-1).

- This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of ethylene oxide are conditioned below SMAL. All other pollutants are below their respective de minimis levels.
- This installation is located in St. Charles County, a nonattainment area for the 8-hour ozone standard and the PM_{2.5} standard and an attainment area for all other criteria pollutants. The installation's major source level is 100 tons per year each for PM_{2.5}, NO_x, and VOC, and 250 tons per year for remaining criteria pollutants. Fugitive emissions are not counted toward major source applicability
- This installation is not on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. .
- Ambient air quality modeling was not performed since potential emissions of ethylene oxide are conditioned below its SMAL.
- Emissions testing is not required for the equipment.
- A Basic Operating Permit application is not required for this installation at this time since all emissions of pollutants are below de minimis levels.
- Approval of this permit is recommended with special conditions.

INSTALLATION DESCRIPTION

Custom Metal Products operates a metal product fabrication facility located at 5783 Westwood Drive in Weldon Springs, Missouri. The fabrication process includes cutting, welding, and painting metal products. No permits have been issued to Custom Metal Products from the Air Pollution Control Program.

PROJECT DESCRIPTION

Custom Metal Products has applied for authority to construct a surface coating spray gun (EU-1) and a welding station (EU-2). Raw material is received at the facility and is cut or machined to size. Some of the cut parts move to welding (EU-2) and some parts move directly to paint preparation depending on the needs of the part. If the part goes to welding (EU-2) it is welded, and then finished weldments move to paint preparation. Welding is done by metal inert gas welding using electrode wire. Approximately 500 pounds per year of wire is used at this facility for welding. This is based on a 40 hour work week. The MHDR of welding is approximated at 12.5 lb/hr.

Before painting, some parts are wiped cleaned with alcohol (less than ½ pint per week). After the parts are cleaned, they are painted in the paint booth (EP-1) with either Aqualon Black 377-B-020-BS or Aqualon White 377-W-004-DA-5 paint. Both these paints are water based. The spray equipment used in the painting process is a high volume, low pressure spray gun (EU-1) with a maximum capacity of four ounces per minute. After painting, the parts are given time to dry and then moved into inventory before being shipped out.

EMISSIONS/CONTROLS EVALUATION

The emissions from the surface coating spray gun (EU-1) were calculated using the maximum paint usage and MSDS's supplied by Custom Metal Products. All available VOCs and HAPs were considered to be emitted. The MHDR of the paint booth was determined by using the flow rate of the high volume, low pressure spray system for EU-1. The flow rate for EU-1 is four ounces per minute of chemical equating to 1.875 gallons per hour.

Multiplying the MHDR by the VOC content from the MSDS the VOC unconditioned potential emissions of EU-1 were determined. Multiplying the MHDR by the HAP weight percent and density of the material the unconditioned potential emissions of each individual HAP of EU-1 were determined.

PM_{2.5} emissions from the application of the paints were evaluated based on the solids content of the paints, control efficiency, and transfer efficiency associated with spray application. A 15 percent transfer efficiency was assumed because of the shape of the products. The panel filters in the paint booth (EP-1) were assumed to have a PM_{2.5} control efficiency of 90 percent. An estimate of the capture efficiency was assumed to be 100% for the fully enclosed booths (EP-1). As there is not a particle size distribution available for this type of painting, all emissions that are not collected by the paint booth filters was assumed to be PM_{2.5}, PM₁₀, and PM.

The potential emissions of PM₁₀ and HAPs from welding were calculated using the Source Classification Code (SCC) 3-09-052-54 in WebFIRE (FIRE). The PM₁₀ emission factor was selected, 5.2 pounds per 1000 pounds of wire. There are four HAPs contained in the wire, chromium, cobalt, manganese, and nickel each with an emission factor of, 0.001, 0.001, 0.318, and 0.001 pounds per 1000 pounds of wire, respectively. Using the emission factor and multiplying it by the amount of wire used per year, the potential emissions were calculated. As there is not a particle size distribution available for this type of welding, all emissions were assumed to be PM₁₀.

The unconditioned potential emissions are a total of emissions from EU-1 and EU-2 assuming a worst case scenario of both processes occurring at the same time.

The following table provides an emissions summary for this project. Potential emissions of the application represent the potential of the new equipment, assuming continuous operation (8760 hours per year). New installation conditioned potential emissions were derived from a ratio of the limiting factor, ethylene oxide, to the pollutant to determine the pollutant's conditioned potential.

Table 2: Emissions Summary (tons per year)

Pollutant	Regulatory <i>De Minimis</i> Levels ^[1]	Existing Potential Emissions	Existing Actual Emissions (EIQ)	Potential Emissions of the Application	New Installation Conditioned Potential
PM	25.0	N/A	N/A	4.17	N/A
PM ₁₀	15.0	N/A	N/A	4.17	N/A
PM _{2.5}	10.0	N/A	N/A	4.17	N/A
SO _x	40.0	N/A	N/A	N/A	N/A
NO _x	40.0	N/A	N/A	N/A	N/A
VOC	40.0	N/A	N/A	13.96	N/A
CO	100.0	N/A	N/A	N/A	N/A
GHG (CO ₂ e)	75,000 / 100,000	N/A	N/A	N/A	N/A
GHG (mass)	0.0 / 100.0 / 250.0	N/A	N/A	N/A	N/A
Combined HAPs	25.0	N/A	N/A	8.25	N/A
Toluene	10.0	N/A	N/A	0.46	N/A
1,4-Dioxane	6.0	N/A	N/A	0.46	N/A
Acetaldehyde	9.0	N/A	N/A	0.46	N/A
Benzene	2.0	N/A	N/A	0.46	N/A
Ethylene Oxide	0.1	N/A	N/A	0.46	<0.1
Propylene Oxide	5.0	N/A	N/A	0.46	N/A
Ethyl Benzene	10.0	N/A	N/A	0.46	N/A
Benzyl Chloride	0.1	N/A	N/A	0.46	N/A
2-(2-Butoxyethoxy) Ethanol	5.0	N/A	N/A	4.58	N/A
Chromium	5.0	N/A	N/A	5.5E-05	N/A
Cobalt	0.1	N/A	N/A	5.5E-05	N/A
Manganese	0.8	N/A	N/A	1.7E-02	N/A
Nickel	1.0	N/A	N/A	5.5E-05	N/A

N/A = Not Applicable

¹For Individual HAPS the SMAL was used

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 HAPs are conditioned below major source threshold levels.

APPLICABLE REQUIREMENTS

Custom Metal Products 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.

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

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*, I recommend this permit be granted with special conditions.

Susan Heckenkamp
New Source Review Unit

Date

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated October 29, 2012, received October 29, 2012, designating Custom Metal Products as the owner and operator of the installation.
- U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition.
- Material Safety Data Sheets

Attachment B- Alternative Coating Potential to Emit Compliance Worksheet

Custom Metal Products
 St. Charles County, LG 1669
 Project Number: 2012-10-058
 Installation ID Number: 183-0252
 Permit Number:

Column 1	Column 2 (a)	Column 3	Column 4	Column 5 (b)	Column 6	Column 7	Column 8	Column 9 (c)
Material Name	Maximum Hourly Design Rate (gallons per hour)	Product Density (pounds per gallon)	Individual HAP Content (weight %)	Individual HAP PTE (tons per year)	Ethylene Oxide Content (weight %)	Ethylene Oxide Emissions (ton per year) for the Material	Scaled Individual HAP SMAL (tons per year)	Screen Modeling Action Level (tons per year)
<i>(example) new coating</i>	1.875	6.64	3.0%	1.64	5.0%	2.73	0.060	1.0

- a) Note: The maximum hourly design rate is equal to 1.875 gallons per hour (gph).
- b) $[\text{Column 2}] \times [\text{Column 3}] \times [\text{Column 4}] \times [4.38] / 100 = [\text{Column 5}]$
- c) Screen Modeling Action Levels for individual HAPs can be found in Appendix B.
- d) Compare potential emissions of the individual HAP in [Column 5] to those from [Column 9]
- e) If [Column 5] is greater than [Column 9], then try scaling as detailed in (f) through (h).
- f) $[\text{Column 2}] \times [\text{Column 3}] \times [\text{Column 6}] \times [4.38] / 100 = [\text{Column 7}]$
- g) $0.10 \times [\text{Column 5}] / [\text{Column 7}] = [\text{Column 8}]$
- h) Compare potential emissions of the scaled individual HAP in [Column 8] to those from [Column 9]. If [Column 8] is greater than [Column 9], obtain permission from Air Pollution Control Program before using this material.

Note: Same worksheet will be used to calculate VOC emissions with changes: [Column 4]: VOC Content (weight %), [Column 5]: VOC PTE (tons per year), and [Column 9]: VOC Potential Emissions (tons per year). [Column 9] will be 14.20 tons per year.

APPENDIX A

Abbreviations and Acronyms

%	percent	m/s	meters per second
°F	degrees Fahrenheit	Mgal	1,000 gallons
acfm	actual cubic feet per minute	MW	megawatt
BACT	Best Available Control Technology	MHDR	maximum hourly design rate
BMPs	Best Management Practices	MMBtu	Million British thermal units
Btu	British thermal unit	MMCF	million cubic feet
CAM	Compliance Assurance Monitoring	MSDS	Material Safety Data Sheet
CAS	Chemical Abstracts Service	NAAQS ...	National Ambient Air Quality Standards
CEMS	Continuous Emission Monitor System	NESHAPs National Emissions Standards for Hazardous Air Pollutants
CFR	Code of Federal Regulations	NO_x	nitrogen oxides
CO	carbon monoxide	NSPS	New Source Performance Standards
CO₂	carbon dioxide	NSR	New Source Review
CO_{2e}	carbon dioxide equivalent	PM	particulate matter
COMS	Continuous Opacity Monitoring System	PM_{2.5}	particulate matter less than 2.5 microns in aerodynamic diameter
CSR	Code of State Regulations	PM₁₀	particulate matter less than 10 microns in aerodynamic diameter
dscf	dry standard cubic feet	ppm	parts per million
EQ	Emission Inventory Questionnaire	PSD	Prevention of Significant Deterioration
EP	Emission Point	PTE	potential to emit
EPA	Environmental Protection Agency	RACT	Reasonable Available Control Technology
EU	Emission Unit	RAL	Risk Assessment Level
fps	feet per second	SCC	Source Classification Code
ft	feet	scfm	standard cubic feet per minute
GACT	Generally Available Control Technology	SIC	Standard Industrial Classification
GHG	Greenhouse Gas	SIP	State Implementation Plan
gpm	gallons per minute	SMAL	Screening Model Action Levels
gr	grains	SO_x	sulfur oxides
GWP	Global Warming Potential	SO₂	sulfur dioxide
HAP	Hazardous Air Pollutant	tph	tons per hour
hr	hour	tpy	tons per year
hp	horsepower	VMT	vehicle miles traveled
lb	pound	VOC	Volatile Organic Compound
lbs/hr	pounds per hour		
MACT	Maximum Achievable Control Technology		
µg/m³	micrograms per cubic meter		

Appendix B: Table of Hazardous Air Pollutants and Screening Model Action Levels (May 3, 2012 Revision 10)

Chemical	CAS#	SMAL (ppb) (6)	GROUP ID	VOC	PM	Chemical	CAS#	SMAL (ppb) (6)	GROUP ID	VOC	PM	Chemical	CAS#	SMAL (ppb) (6)	GROUP ID	VOC	PM
ACETALDEHYDE	75-07-0	9		Y	N	CARBARYL	83-25-2	10	V	Y	Y	DICHLOROPROPANE, [1,2-]	78-87-5	1		Y	N
ACETAMIDE	60-35-8	1		Y	N	CARBON DISULFIDE	75-15-0	1		Y	N	DICHLOROPROPENE, [1,2-]	540-75-8	1		Y	N
ACETONITRILE	75-05-8	4		Y	N	CARBON TETRACHLORIDE	85-23-8	1		Y	N	DICHLORVOS	82-73-7	0.2		Y	N
ACETOPHENONE	98-88-2	1		Y	N	CARBONYL SULFIDE	463-58-1	5		Y	N	DIETHANOLAMINE	111-42-2	5		Y	N
ACETYLAMINOFLUORINE, [2-]	53-95-3	0.005	V	Y	Y	CATECHOL	120-80-8	5		Y	N	DIETHYL SULFATE	84-57-5	1		Y	N
ACROLEIN	107-02-8	0.04		Y	N	CHLORAMBEIN	123-90-4	1		Y	Y	DIETHYLENE GLYCOL MONOBUTYLE ETHER	1123-24-5	5	F	Y	N
ACRYLAMIDE	79-05-1	0.02		Y	N	CHLORDANE	87-74-9	0.01	Y	Y	Y	DIMETHOXYBENZIDINE, [3,3-]	119-50-4	0.1	V	Y	Y
ACRYLIC ACID	79-10-7	0.5		Y	N	CHLORINE	7782-50-8	0.1	N	N	N	DIMETHYL BENZIDINE, [3,3-]	119-53-7	0.005	V	Y	Y
ACRYLONITRILE	107-13-1	0.3		Y	N	CHLOROACETIC ACID	79-11-8	0.1		Y	N	DIMETHYL CARBAMOYL CHLORIDE	79-44-7	0.02		Y	N
ALLYL CHLORIDE	107-05-1	1		Y	N	CHLOROACETOPHENONE, [2-]	832-27-4	0.05		Y	N	DIMETHYL FORMAMIDE	68-12-2	1		Y	N
AMINOBIHENYL, [4-]	92-87-1	1	V	Y	N	CHLOROBENZENE	108-90-7	10		Y	N	DIMETHYL HYDRAZINE, [1,1-]	57-14-7	0.005		Y	N
ANILINE	62-83-3	1		Y	N	CHLOROBENZYLATE	510-15-8	0.4	V	Y	Y	DIMETHYL PHTHALATE	131-11-3	10		Y	N
ANISIDINE, [ORTHO-]	90-04-3	1		Y	N	CHLOROFORM	67-65-3	0.9		Y	N	DIMETHYL SULFATE	77-79-1	0.1		Y	N
ANTHRACENE	120-12-7	0.01	V	Y	N	CHLOROMETHYL METHYLE ETHER	107-30-2	0.1		Y	N	DIMETHYLAMINAZOBENZENE, [4-]	80-11-7	1		Y	N
ANTIMONY COMPOUNDS		5	H	N	Y	CHLOROPRENE	128-86-8	1		Y	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-] (Not 6)	534-52-1	0.1	E	Y	Y
ANTIMONY POTASSIUM TARTRATE	28300-74-6	1	H	N	Y	CHROMIUM COMPOUNDS		5	L	N	Y	DINITROPHENOL, [2,4-]	51-28-5	1		Y	N
ANTIMONY TRIOXIDE	1309-84-4	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	1345-04-8	0.1	H	N	Y	COBALT COMPOUNDS		0.1	M	N	Y	DIOXANE, [1,4-]	123-91-1	5		Y	N
ARSENIC COMPOUNDS		0.005	I	N	Y	COKE OVEN EMISSIONS	8007-45-2	0.03	N	Y	N	DIPHENYLHYDRAZINE, [1,2-]	122-55-7	0.05	V	Y	Y
ASBESTOS	1332-21-4	0	A	N	Y	CRESOL, [META-]	108-38-4	1	B	Y	N	DIPHENYLMETHANE DIISOCYANATE, [4,4-]	101-56-8	0.1	V	Y	N
BENZO[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	CRESOL, [PARA-]	108-44-8	1	B	Y	N	ETHOXYETHANOL, [2-]	110-80-5	10	F	Y	N
BENZIDINE	92-97-5	0.0003	V	Y	N	CRESOLS (MIXED ISOMERS)	1219-77-3	1	B	Y	N	ETHOXYETHYL ACETATE, [2-]	111-15-9	5	F	Y	N
BENZO[A]PYRENE	50-32-8	0.01	V	Y	N	CUMENE	98-92-6	10		Y	N	ETHYL ACRYLATE	140-88-5	1		Y	N
BENZO[B]FLUORANTHENE	205-99-2	0.01	V	Y	N	CYANIDE COMPOUNDS		0.1	C	Y	N	ETHYL BENZENE	100-41-4	10		Y	N
BENZO[K]FLUORANTHENE	207-08-9	0.01	V	Y	N	DOE	72-55-9	0.01	V	Y	Y	ETHYL CHLORIDE	75-00-3	10	V	N	
BENZOTRICHLORIDE	98-07-7	0.005		Y	N	DI(2-ETHYLHEXYL) PHTHALATE, (DEHP)	117-91-7	5		Y	N	ETHYLENE GLYCOL	107-21-1	10		Y	N
BENZYL CHLORIDE	100-44-7	0.1		Y	N	DIAMINOTOLUENE, [2,4-]	95-80-7	0.02		Y	N	ETHYLENE GLYCOL MONOBUTYLE ETHER (Dallstedt)	111-75-2				
BERYLLIUM COMPOUNDS		0.005	J	N	Y	DIAZOMETHANE	324-89-3	1		Y	N	ETHYLENE GLYCOL MONOHEXYL ETHER	112-25-4	5	F	Y	N
BERYLLIUM SALTS		25-05	J	N	Y	DIBENZO[A,H]ANTHRACENE	63-70-3	0.01	V	Y	N	ETHYLENE IMINE (AZIRINE)	151-55-4	0.005		Y	N
BIPHENYL, [1,1-]	92-62-4	10	V	Y	N	DIOXINS/FURANS		5E-07	D,V	Y	N	ETHYLENE OXIDE	75-21-8	0.1		Y	N
BIS(CHLOROETHYL)ETHER	111-44-4	0.05		Y	N	DIBENZOFURAN	120-84-9	5	V	Y	N	ETHYLENE THIOUREA	96-45-7	0.5		Y	Y
BIS(CHLOROMETHYL)ETHER	542-88-1	0.0003		Y	N	DIBROMO(2,3-CHLOROPROPANE, [1,2-])	95-12-8	0.01		Y	N	FORMALDEHYDE	50-00-0	2		Y	N
BROMOFORM	75-25-2	10		Y	N	DIBROMOMETHANE, [1,2-]	106-93-4	0.1		Y	N	GLYCOL ETHER (ETHYLENE GLYCOL ETHERS)		5	F	Y	N
BROMOMETHANE	74-83-9	10		Y	N	DIBUTYL PHTHALATE	84-74-2	10		Y	Y	GLYCOLE ETHER (DIETHYLENE GLYCOL ETHERS)		5	F	Y	N
BUTADIENE, [1,3-]	106-99-0	0.07		Y	N	DICHLOROBENZENE, [1,4-]	105-46-7	3		Y	N	HEPTACHLOR	75-44-8	0.02		Y	N
BUTOXYETHANOL ACETATE, [2-]	112-07-2	5	F	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	DICHLORDETHANE, [1,1-]	75-34-3	1		Y	N	HEXACHLOROBUTADIENE	87-88-3	0.9		Y	N
CADMIUM COMPOUNDS		0.01	K	N	Y	DICHLORDETHANE, [1,2-]	107-05-2	0.9		Y	N	HEXACHLOROCCYCLOHEXANE, [ALPHA-]	319-54-6	0.01	F	Y	N
CALCIUM CYANAMIDE	156-62-7	10		Y	Y	DICHLORDETHYLENE, [1,1-]	75-35-4	0.4		Y	N	HEXACHLOROCCYCLOHEXANE, [BETA-]	319-55-7	0.01	F	Y	N
CARROLACTAM (Dallstedt)	105-80-2					DICHLOROMETHANE	75-09-2	10		N	N	HEXACHLOROCCYCLOHEXANE, [DELTA-]	319-56-8	0.01	F	Y	N
CAPTAN	133-05-2	10		Y	Y	DICHLOROPHENOXACETIC ACID, [2,4-]	84-75-7	10	C	Y	Y	HEXACHLOROCCYCLOHEXANE, [TECHNICAL]	808-73-1	0.01	F	Y	N

Appendix B: Table of Hazardous Air Pollutants and Screening Model Action Levels (May 3, 2012 Revision 10)

Chemical	CAS #	SMAL (ppb)(1)	Group ID	VOC	PM	Chemical	CAS #	SMAL (ppb)(1)	Group ID	VOC	PM	Chemical	CAS #	SMAL (ppb)(1)	Group ID	VOC	PM
HEXACHLOROCCYCLOPENTADIENE	77-47-4	0.1		Y	N	NITROSODIMETHYLAMINE, [N-]	62-75-9	0.001		Y	N	TRIMETHYLPENTANE, [2,2,4-]	540-94-1	5		Y	N
HEXACHLOROETHANE	67-72-1	5		Y	N	NITROSOMORPHOLINE, [N-]	59-83-2	1		Y	N	URETHANE [ETHYL CARBAMATE]	51-75-6	0.8		Y	N
HEXAMETHYLENE-1,3-DIISOCYANATE	822-06-0	0.02		Y	N	NITROSOD-N-METHYLUREA, [N-]	594-93-5	0.0002		Y	N	VINYL ACETATE	108-05-4	1		Y	N
HEXAMETHYLPHOSPHORAMIDE	590-31-8	0.01		Y	N	OCTACHLORONAPHTHALENE	2294-13-1	0.01	V	Y	N	VINYL BROMIDE	593-60-2	0.5		Y	N
HEXANE, [N-]	110-54-3	10		Y	N	PARATHION	55-38-2	0.1		Y	Y	VINYL CHLORIDE	75-01-4	0.2		Y	N
HYDRAZINE	30201-2	0.004		N	N	PCB (POLYCHLORINATED BIPHENYLS)	1336-36-3	0.009	X	Y	Y	XYLENE, [META-]	108-36-3	10	G	Y	N
HYDROGEN CHLORIDE	7647-01-0	10		N	N	PENTACHLORONITROBENZENE	62-85-8	0.3		Y	N	XYLENE, [ORTHO-]	95-47-6	10	G	Y	N
HYDROGEN FLUORIDE	7664-39-3	0.1		N	N	PENTACHLOROPHENOL	87-86-6	0.7		Y	N	XYLENE, [PARA-]	106-42-3	10	G	Y	N
HYDROQUINONE	123-31-8	1		Y	N	PHENOL	108-95-2	0.1		Y	N	XYLENES (MKED ISOMERS)	1330-20-7	10	G	Y	N
INDENO[1,2,3-CD]PYRENE	193-39-8	0.01	V	Y	N	PHENYLENEDIAMINE, [PARA-]	105-80-3	10		Y	N						
ISOPHORONE	78-58-1	10		Y	N	PHOSGENE	75-44-5	0.1		Y	N						
LEAD COMPOUNDS		0.1	Q	N	Y	PHOSPHINE	7803-51-2	5		N	N						
LINDANE (GAMMA-HEXACHLOROCCYCLOHEXANE)	58-89-9	0.01	F	Y	N	PHOSPHOROUS (YELLOW OR WHITE)	7723-14-0	0.1	N	N							
MALEIC ANHYDRIDE	108-31-6	1		Y	N	PHTHALIC ANHYDRIDE	85-44-8	5		Y	N						
MANGANESE COMPOUNDS		0.8	R	N	Y	POLYCYCLIC ORGANIC MATTER		0.01	V	Y	N						
MERCURY COMPOUNDS		0.01	S	N	N	PROPANE SULFONE, [1,3-]	1120-71-4	0.03		Y	Y						
METHANOL	67-58-1	10		Y	N	PROPIONALACTONE, [BETA-]	57-57-8	0.1		Y	N						
METHOXYCHLOR	72-43-5	10	V	Y	Y	PROPIONALDEHYDE	129-38-5	5		Y	N						
METHOXYETHANOL, [2-]	109-96-4	10	F	Y	N	PROPOXUR, [BAYCON]	114-25-1	10		Y	Y						
METHYL CHLORIDE	74-87-3	10		Y	N	PROPYLENE OXIDE	75-55-9	5		Y	N						
METHYLETHYL KETONE (Delisted)	78-93-3					PROPYLENEIMINE, [1,2-]	75-55-8	0.003		Y	N						
METHYLHYDRAZINE	60-34-4	0.05		Y	N	QUINOLINE	91-22-6	0.005		Y	N						
METHYL IODIDE	74-88-4	1		Y	N	QUINONE	105-61-4	5		Y	N						
METHYL ISOBUTYL KETONE	109-10-1	10		Y	N	RADIONUCLIDES		Note 1	Y	N	Y						
METHYLISOCYANATE	624-93-9	0.1		Y	N	SELENIUM COMPOUNDS		0.1	W	N	Y						
METHYLMETHACRYLATE	90-82-5	10		Y	N	STYRENE	100-42-5	1		Y	N						
METHYL TERT-BUTYL ETHER	1634-04-4	10		Y	N	STYRENE OXIDE	96-09-3	1		Y	N						
METHYLCYCLOPENTADIENYL MANGANESE	12108-13-3	0.1	R	N	Y	TETRACHLORODIBENZO-P-DIOXIN, [2,3,7,8-]	1748-01-6	5E-07	D, V	Y	Y						
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						
METHYLENEDIANILINE, [4,4-]	101-77-9	1	V	Y	N	TETRACHLOROETHYLENE	127-18-4	10		N	N						
METHYLNAPHTHALENE, [2-]	61-67-6	0.01	V	Y	N	TITANIUM TETRACHLORIDE	7550-45-0	0.1		N	N						
MINERAL FIBERS		0	T	N	Y	TOLUENE	108-88-3	10		Y	N						
NAPHTHALENE	91-20-3	10	V	Y	N	TOLUENE DIISOCYANATE, [2,4-]	594-84-9	0.1		Y	N						
NAPHTHYLAMINE, [ALPHA-]	124-32-7	0.01	V	Y	N	TOLUIDINE, [ORTHO-]	95-63-4	4		Y	N						
NAPHTHYLAMINE, [BETA-]	91-59-8	0.01	V	Y	N	TOXAPHERE	8001-35-2	0.01		Y	N						
NICKEL CARBONYL	13459-39-3	0.1	U	N	Y	TRICHLOROETHANE, [1,1,2,2-]	120-92-1	10		Y	N						
NICKEL COMPOUNDS		1	U	N	Y	TRICHLOROETHANE, [1,1,1,1-]	71-55-6	10		N	N						
NICKEL REFINERY DUST		0.08	U	N	Y	TRICHLOROETHANE, [1,1,2-]	78-00-5	1		Y	N						
NICKEL SUBSULFIDE	12035-72-2	0.04	U	N	Y	TRICHLOROETHYLENE	78-01-8	10		Y	N						
NITROBENZENE	98-95-3	1		Y	N	TRICHLOROPHENOL, [2,4,6-]	95-95-4	1		Y	N						
NITROBIPHENYL, [4-]	92-83-3	1	V	Y	N	TRICHLOROPHENOL, [2,4,6-]	98-08-2	5		Y	N						
NITROPHENOL, [4-]	100-02-7	5		Y	N	TRIETHYLAMINE	121-44-8	10		Y	N						
NITROPROPANE, [2-]	78-45-9	1		Y	N	TRIFLURALIN	1582-03-6	5		Y	Y						

Legend

Group ID	Aggregate Group Name
A	Asbestos
B	Cresols-Cresylic Acid (isomers and mixtures)
C	2,4-D, Salts and Esters
D	Dibenzofurans, Dibenzodioxins
E	4,6-Dinitro-cresol, and Salts
F	Lindane (all isomers)
G	Xylenes (all isomers and mixtures)
H	Antimony Compounds
I	Arsenic Compounds
J	Beryllium Compounds
K	Caesium Compounds
L	Chromium Compounds
M	Cobalt Compounds
N	Coke Oven Emissions
O	Cyanide Compounds
P	Glycol Ethers
Q	Lead Compounds (except elemental Lead)
R	Manganese Compounds
S	Mercury Compounds
T	Fine Mineral Fibers
U	Nickel Compounds
V	Polycyclic Organic Matter
W	Selenium Compounds
X	Polychlorinated Biphenyls (Aroclors)
Y	Radionuclides

Notes

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.

Mr. HR Eddens
President
Custom Metal Products
5781 Westwood Drive
Weldon Spring, MO 63304

RE: New Source Review Permit - Project Number: 2012-10-058

Dear Mr. Eddens:

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 and your new source review permit application 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 have any questions regarding this permit, please do not hesitate to contact me at the Department of Natural Resources' Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102, or by telephone at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Susan Heckenkamp
New Source Review Unit Chief

SH:kjc

Enclosures

c: St. Louis Regional Office
PAMS File: 2012-10-058

Permit Number: