



Missouri Department of dnr.mo.gov

**NATURAL RESOURCES**

Michael L. Parson, Governor

Carol S. Comer, Director

JAN 13 2020

Mr. Tim Baer  
Asst. General Manager  
TG Missouri Corporation  
2200 Plattin Road  
Perryville, Missouri 63775

RE: New Source Review Permit - Project Number: 2019-08-070

Dear Mr. Baer:

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 your amended 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.

This permit may include requirements with which you may not be familiar. If you would like the department to meet with you to discuss how to understand and satisfy the requirements contained in this permit, an appointment referred to as a Compliance Assistance Visit (CAV) can be set up with you. To request a CAV, please contact your local regional office or fill out an online request. The regional office contact information can be found at the following website: <http://dnr.mo.gov/regions/>. The online CAV request can be found at <http://dnr.mo.gov/cav/compliance.htm>.

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, United States Post Office Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: [www.oa.mo.gov/ahc](http://www.oa.mo.gov/ahc).

Mr. Tim Baer  
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If you have any questions regarding this permit, please do not hesitate to contact Russell Osborne, at the Department of Natural Resources' Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or 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:roa

Enclosures

c: Southeast Regional Office  
PAMS File: 2019-08-070

Permit Number: **012020-007**



**MISSOURI**  
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: **012020-007**

Project Number: 2019-08-070  
Installation Number: 157-0019

Parent Company: TG Missouri Corporation

Parent Company Address: 2200 Plattin Road, Perryville, Missouri 63775

Installation Name: TG Missouri Corporation

Installation Address: 2200 Plattin Road, Perryville, Missouri 63775

Location Information: Perry County, S84, T35N, R10E

Application for Authority to Construct was made for:

A rack recoating operation. This review was conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

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

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

  
\_\_\_\_\_  
Director or Designee  
Department of Natural Resources

**JAN 13 2020**

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Effective Date



## MISSOURI AIR CONSERVATION COMMISSION

### PERMIT TO CONSTRUCT

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

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

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Director or Designee  
Department of Natural Resources

---

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 Enforcement and Compliance Section of 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 Enforcement and Compliance Section of the Department's Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available within 30 days of actual startup. Also, you must notify the Department's regional office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of the permit application and this permit and permit review shall be kept at the installation address and shall be made available to Department's 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 source(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 using the contact information below.

Contact Information:  
Missouri Department of Natural Resources  
Air Pollution Control Program  
P.O. Box 176  
Jefferson City, MO 65102-0176  
(573) 751-4817

The regional office information can be found at the following website:  
<http://dnr.mo.gov/regions/>

**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 to 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 (3)(E). "Conditions required by permitting authority."*

TG Missouri Corporation  
Perry County, S84, T35N, R10E

1. Superseding Condition
  - Special Condition 2 of this permit supersedes Special Condition 2.A found in the previously issued construction permit 082018-014 issued by the Air Pollution Control Program.
  
2. Emission Limitations
  - A. Plant-wide
    - 1) TG Missouri Corporation shall emit less than 10.0 tons individually and 25.0 tons combined of HAPs in any consecutive 12-month period from the entire installation (see table 1 for a list of all HAP emission points).

Table 1: Installation HAP Emission Points

Emission Point	Description
EP-261	GFC Plastisol Cure Oven
EP-260	Polyfab Plastisol Dip Tank
EP-259	GFC Preheat Oven
EP-258	Polyfab Primer Dip Tank
EP-256	Steelman Burn-off Oven
EP-255	Caterpillar 3306 Emergency Generator
EP-254	Cummins 6CTA8.3-G2 Emergency Generator
EP-253	HCL Tank
EP-252	P-25 Paint Kitchen
EP-251	P-25 Cooling Zone Exhaust
EP-250	P-25 Cure Oven Exhaust
EP-249	P-25 Clear Coat Booth Stack 1
EP-248	P-25 Base Coat Booth Stack 1
EP-247	P-23 Paint Kitchen
EP-246	P-23 Cooling Zone Exhaust
EP-245	P-23 Cure Oven Exhaust
EP-243	P-23 Clear Coat Booth Stack 1
EP-241	P-23 Base Coat Booth Stack 1
EP-240	Kaizen Booth Paint System
EP-238	PMF4 Decorative chrome plating
EP-237	PMF4 Nickel plating
EP-235	PMF4 Hydrochloric acid catalyst
EP-234	PMF4 Chrome etching
EP-232	PMF3 Decorative chrome plating
EP-231	PMF3 Nickel plating
EP-229	PMF3 Hydrochloric acid catalyst

**SPECIAL CONDITIONS:**

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

Emission Point	Description
EP-228	PMF3 Chrome Etching
EP-227	Blackout Booth Paint System
EP-226	CST Process film activator
EP-224	PMF2 Decorative chrome plating
EP-223	PMF2 Nickel plating
EP-221	PMF2 Hydrochloric acid catalyst
EP-220	PMF2 Chrome etching
EP-216 through 212	PB20 Paint System
EP-210	PMF1 Decorative Chrome Plating
EP-209	PMF1 Nickel Plating
EP-207	PMF1 Hydrochloric acid catalyst
EP-206	PMF1 Chrome Etching
EP-197 through 205	Robotic Paint Booth (P-12)
EP-194 through 196	Robotic Paint Booth (P-11)
EP-188 through 193	Robotic Paint Booth (P-10)
EP-171 through 183	Robotic Paint Booth (P-9)
EP-170	Boiler
EP-169	Printing
EP-168	Transfer Of Dry Raw Material
EP-167	Fluidized Bed
EP-165 through 166	Saturn Outerbelt Line
EP-164	Shot Blasting
EP-163	Magnesium Die Casting Furnace
EP-155 through 162	Air Bag Robotic Paint Booth (P-14)
EP-149 through 154	Air Bag Robotic Paint Booth (P-6)
EP-144 through 148	Air Bag Robotic Paint Booth (P-5)
EP-137 through 143	Air Bag/Column Cover Paint Booth (P-4)
EP-132 through 136	Mudguard Paint Booth (P-3)
EP-126 through 131	Back Panel (Rear Garnish) Paint Booth (P-2)
EP-116 through 125	Water Heaters
EP-090 through 115	Space Heaters
EP-085	Shot Blasting
EP-084	Aluminum Pouring/Casting
EP-083	Aluminum Die Cast Melting Furnaces (3)
EP-080 through 082	Building 1 Paint Booth (P-18)
EP-079	PVC Degreaser #2
EP-062 through 063	Paint Booth (P-8)
EP-001 through 059	Polyurethane

- B. Attachment A and Attachment B or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Conditions 2.A.

**SPECIAL CONDITIONS:**

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

3. Operation Requirement - Burn-off Oven
  - A. TG Missouri Corporation shall use a direct-flame afterburner to control emission from the burn-off oven. The afterburner shall be operated at a temperature of at least 1,400 degrees Fahrenheit with more than one-half (1/2) second residence time to ensure minimum combustion efficiency of 99.9%.
  - B. The burn-off oven shall be equipped with a continuous recorder, with digital readout, which is able to monitor, display, and record the temperature in the second chamber to an accuracy of plus or minus two percent (2%).
  
4. Capture Device Requirement - Blast Booth & Dust Collector
  - A. TG Missouri Corporation shall capture emissions from the BlastOne sandblasting booth (EP-257) using a blast booth and dust collector, as specified in the permit application.
  - B. The dust collector shall be operated at all times during blasting operations and maintained in accordance with the manufacturer's specifications.
  - C. All blasting operations shall be performed inside the booth, in a direction away from any booth openings.
  - D. The BlastOne sandblasting booth (EP-257) shall be equipped with a pressure switch, which will sound an audible alarm if the pressure is outside of the manufacturer's recommended operational range.
  - E. 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).
  - F. TG Missouri Corporation shall maintain a copy of the filter manufacturer's performance warranty on site.
  - G. TG Missouri Corporation 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.



**SPECIAL CONDITIONS:**

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

5. Record Keeping and Reporting Requirements
  - A. TG Missouri Corporation 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. TG Missouri Corporation shall report to the Air Pollution Control Program's Compliance/Enforcement Section, by mail at P.O. Box 176, Jefferson City, MO 65102 or by e-mail at [AirComplianceReporting@dnr.mo.gov](mailto:AirComplianceReporting@dnr.mo.gov), no later than 10 days after the end of the month during which any record required by this permit shows an exceedance of a limitation imposed by this permit.

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

Project Number: 2019-08-070  
Installation ID Number: 157-0019  
Permit Number:

Installation Address:  
TG Missouri Corporation  
2200 Plattin Road  
Perryville, Missouri 63775

Parent Company:  
TG Missouri Corporation  
2200 Plattin Road  
Perryville, Missouri 63775

Perry County, S84, T35N, R10E

REVIEW SUMMARY

- TG Missouri Corporation has applied for authority to construct a new rack recoating operation.
- The application was deemed complete on September 18, 2019.
- HAP emissions are expected from the combustion of natural gas, the plastisol dip tank, and the plastisol burn-off oven. HAPs of concern are dioxins, furans, and polychlorinated biphenols (PCBs) from the burn-off oven (EP-256).
- None of the New Source Performance Standards (NSPS) apply to the proposed equipment.
- None of the NESHAPs apply to this installation.
- MACT Regulations, 10 CSR 10-6.075 *National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories* applies to the BlastOne sandblasting booth (EP-257).
- An afterburner is being used to control the volatile organic compound (VOC) emissions from the burn-off oven (EP-256). However, the afterburner is also an emission source.
- This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of all criteria pollutants are below de minimis levels.
- This installation is located in Perry County, an attainment/unclassifiable 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.

- Ambient air quality modeling was performed on dioxin/furans since potential emissions of the application are greater than the SMAL. Modeling indicated ambient impact less than the significant impact level (SIL).
- Emissions testing is not required for the rack recoating operation as a part of this permit. Testing may be required as part of other state, federal or applicable rules.
- TG Missouri Corporation shall apply to amend the Part 70 Operating Permit for this installation within 1 year of this permit issuance.
- Approval of this permit is recommended with special conditions.

### INSTALLATION DESCRIPTION

TG Missouri Corporation manufactures plastic, rubber, and metal automobile parts and accessories including steering wheels, airbags and interior panels. TG Missouri Corporation is a major source (Part 70) under operating permits and major source under construction permits for volatile organic compounds (VOCs).

The following New Source Review permits have been issued to TG Missouri Corporation from the Air Pollution Control Program.

Table 2: Permit History

Permit Number	Description
0986-012A	Manufacturing of steel steering wheel & plastic governor gear
1187-009	Installation of parts molding operation
0290-003	Installation of six (6) polyurethane presses to mold air bag covers
0290-004	Installation of 14 polyurethane presses, a spray booth, and an adhesive coating machine
0590-006	Addition of painting equipment for side protection molding
0691-002	Installation of nine (9) polyurethane presses for molding air bag covers
0791-010	Installation of six (6) polyurethane steering wheel presses
0791-013	Installation of injection molding, aluminum die cast, and air bag assembly
0592-001	Installation of six (6) polyurethane steering wheel presses
0792-029	Installation of three (3) polyurethane steering wheel presses
0393-010	Installation of six (6) polyurethane presses and one (1) aluminum die cast furnace
0794-018	Installation of aluminum die casting, air bag assembly, polyurethane processing, and spray painting
0595-007	Addition of Injection molding equipment
1295-019	Installation of an air bag robotic paint booth
0396-005	Installation of magnesium die casting
0896-005	Installation of Saturn outer-belt process line
157-0019-0001	Part 70 operating permit
1297-018	Installation of two (2) magnesium die casting lines
0298-014	Construction of six (6) new polyurethane paint booths
0998-006	Installation of four (4) polyurethane paint booths
042002-018	Installation of a robotic paint booth

Permit Number	Description
082002-019	Paint booths
OP2008-022	Part 70 operating permit renewal
022009-011	Two automated spray booths and one chrome plating line (PMF1)
122010-014	CST Process and PMF2
012012-010	Installation of blackout paint booth
042012-008	Installation of compact plating system PMF3
042012-008A	True-up to actual
082014-016	New compact plating system PF4
122015-018	Construct a Kaizen Paint Booth System (EF-240)
072017-007	Paint Booth
082018-014	Paint Booth

## PROJECT DESCRIPTION

TG Missouri Corp submitted an application to the Air Pollution Control Program to install a new rack recoating operation at the Perryville facility. Racks from the chrome plating line (PMF4) are coated with a plastisol material and as the material deteriorates during the plating process, the racks will be recoated in the proposed new process.

Once the racks are too coated for “regular use” they are sent to the Steelman Industries Model 7814 BB natural gas fired burn-off oven (EP-256) with an MHDR of 0.784 MMBTU/hr. The burn-off oven is equipped with a 1.10 MMBTU/hr afterburner. The burn-off oven becomes the bottleneck of the process as the racks need 8.5 hr per cycle with 6 racks per cycle, totaling a maximum of 6,184 racks per year.

Once the plastisol is burned off, the racks are then cleaned in a BlastOne sandblasting booth capable of using 500lb/hr of blast media. The BlastOne booth emissions are controlled by a high efficiency particulate air filter. After the cleaning the racks will then be dipped in a low VOC Polyfab primer dip tank. The MHDR of the primer dip tank, 0.42 gal/hr, is based upon the bottleneck created by the burn-off oven. The racks are then air dried and preheated in a Maxon Oven PAK Model 400 natural gas-fired preheat oven with an MHDR of 1.5 MMBTU/hr. The racks are then dipped in the Polyfab plastisol dip tank. The MHDR of the plastisol dip tank, 10.08 gal/hr, is also based upon the bottleneck created by the burn-off oven. After the racks are properly coated the plastisol will be cured in a 1.5 MMBTU/hr Oven PAK Model 400 plastisol cure oven.

A project aggregation determination was evaluated by the Air Pollution Control Program for the scope of this project and Permit No. 082018-014. Upon evaluation it was determined the two nominally separate changes are not substantially related. Therefore, the two modifications are viewed as different projects.

## EMISSIONS/CONTROLS EVALUATION

The proposed equipment includes a burn-off oven (EP-256), sandblasting booth (EP-257), a primer dip tank (EP-258), preheat oven (EP-259), a plastisol dip tank (EP-260), and a plastisol cure oven (EP-261).

The curing of the plastisol should not emit any regulated pollutants as the chlorine should remain in the plastisol. Incinerating the plastisol in the burn-off oven will create HCl, dioxin, furan, and PCB emissions. HCl emissions from the incineration of plastisol were calculated using emission factors derived from a stack test performed by the manufacturer, Steelman Industries.

Dioxin and Furan emissions were calculated using emission factors from EPA document EPA-450/4-84-014o, "National Dioxin Study Tier 4 – Combustion sources, Final Test Report – Site 6 Wire Reclamation Incinerator WRI – A," April, 1987. The emission factors in the EPA document were based on raw materials containing only 1 to 3 % wires coated with PVC. Therefore, the emission factors were scaled up to account for 100% of wires coated with PVC. Furthermore, the tests had an average of 13% coating and 87% wiring by weight, so the emission factors were also scaled up to reflect 100% PVC. The dioxin and furan emissions were calculated to be greater than the Screening Model Action Levels, and modeling was performed to determine its ambient impact. Results show that the ambient impact of dioxin and furans are less than 4.0% of the Risk Assessment Level (RAL).

The PCB emissions were calculated using emissions data from the technical paper, "Variables Affecting Emissions of PCDD/Fs from Uncontrolled Combustion of Household Waste in Barrels," May, 2003. The tests in this paper were based on using 1% or 7.5% PVC in the waste, so the data was scaled up to reflect 100% PVC.

The combustion units at the installation use natural gas. Emissions were calculated using emission factors from EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition, Chapter 1.4, *Natural Gas Combustion*, (July 1998).

Emissions from the primer tank were calculated using mass balances. The primer dip tank will release VOC and HAP emissions. HAPs expected from the primers include toluene and methyl methacrylate which are both also VOC. Emissions from the plastisol dip tank were also calculated using a mass balance approach. Emissions expected from the plastisol dip tank are diethylene glycol, phenol, and vinyl chloride. Vinyl chloride and phenol are considered VOC and HAP. The mass balance for the two tanks is centered upon the bottleneck created by the burn-off oven.

PM<sub>2.5</sub>, PM<sub>10</sub>, and PM emissions are expected from the sandblasting equipment. Emissions were calculated using emission factors from AP-42, Chapter 13.2.6, *Abrasive Blasting*, (September 1997). The BlastOne sandblasting booth has an MHDR of 500 lb abrasive/hr and is controlled by a high efficiency particulate air filter.

The BlastOne blasting booth (EP-257) will be equipped with an automatic pressure switch, which will sound an audible alarm if the pressure is outside of the manufacturer's recommended operational range. Additionally, the pressure switch will measure the pressure drop across the filters and then sound an alarm when pressure indicates that the filters need to be changed.

The following table provides an emissions summary for this project. Existing potential emissions were taken from Construction Permit 082018-014. Existing actual emissions

were taken from the installation's 2018 EIQ. Potential emissions of the application represent the potential of the proposed new equipment, assuming continuous operation (8760 hours per year).

Table 3: Emissions Summary (tpy)

Pollutant	Regulatory <i>De Minimis</i> / SMAL Values	Existing Potential Emissions	Existing Actual Emissions (2018 EIQ)	Potential Emissions of the Project	New Installation Conditioned Potential
PM	25.0	N/D	N/R	0.33	N/A
PM <sub>10</sub>	15.0	26.14	3.01	0.33	N/A
PM <sub>2.5</sub>	10.0	23.00	2.88	0.33	N/A
SO <sub>x</sub>	40.0	0.15	0.04	0.10	N/A
NO <sub>x</sub>	40.0	20.29	1.81	2.65	N/A
VOC	40.0	625.33	151.04	0.65	N/A
CO	100.0	8.08	0.67	1.57	N/A
Combined HAPs	25.0	< 25.0	2.33	0.60	< 25.0
Dioxin/Furans (110-00-9)	6.0E-7	< 6.0E-7	N/R	3.9E-5	< 10.0
PCBs (1336-36-3)	0.009	< 0.009	N/R	3.2E-3	< 10.0
HCl (7647-01-0)	10.0	< 10.0	N/R	0.01	< 10.0
methyl methacrylate (80-62-6)	10.0	< 10.0	N/R	0.04	< 10.0
Phenol (108-95-2)	0.1	< 0.1	N/R	0.18	< 10.0
Vinyl Chloride (75-01-4)	0.2	< 0.2	N/R	0.18	< 10.0
Toluene (108-88-3)	10.0	< 10.0	N/R	0.02	< 10.0

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

### 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 all pollutants are below de minimis levels.

### APPLICABLE REQUIREMENTS

TG Missouri Corporation 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

- *Operating Permits*, 10 CSR 10-6.065
- *Start-Up, Shutdown, and Malfunction Conditions*, 10 CSR 10-6.050
- *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 *National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories* applies to the BlastOne sandblasting booth (EP-257), per §63.11514(b)(1).
- None of the New Source Performance Standards (NSPS) apply to the proposed equipment.
  - Subpart E, *Standards of Performance for Incinerators*, does not apply to the burn-off oven because the oven does not burn solid waste as defined in the subpart
  - Subpart CCCC, *Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Is Commenced After November 30, 1999 or for Which Reconstruction is Commenced After June 1, 2001*, does not apply to the burn-off oven because a burn-off oven is not considered an incinerator for this subpart.
  - Subpart EEEE, *Standards for Performance for Other Solid Waste Incineration Units for Which Construction is Commenced After December 9, 2004, or for Which Modification or Reconstruction is Commenced on or After June 16, 2006*, does not apply to the burn-off oven because it is not considered an “other solid waste incineration unit” as defined in this subpart.

## AMBIENT AIR QUALITY IMPACT ANALYSIS

Ambient air quality modeling was performed to determine the ambient impact of the dioxin and furans emitted from the combustion of the plastisol in the burn-off oven. The emission rate calculated exceeded the SMAL value. Therefore, modeling was performed using the latest version of AERSCREEN (16216). If the ambient impact from the project is less than the significant impact level (SIL), which is 4% of the RAL, then

the full impact analysis is not required. The results of the model, shown in Table 2, indicate that a full impact analysis is not required.

Table 4: Ambient Impact Analysis for Dioxins/Furans ( $\mu\text{g}/\text{m}^3$ )

Pollutant	Modeled Impact (Annual)	Modeled Impact (24-Hour)	SIL (Annual)	SIL (24-Hour)	Annual RAL	24 – Hour RAL
Dioxins/Furans	1.06E-4	0.02	1.20E-3	N/A	0.03	N/A
Phenol	1.07E-2	6.40E-2	1.80	0.36	9.0	45.0

#### 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 August 21, 2019, received August 26, 2019, designating TG Missouri Corporation as the owner and operator of the installation.



# Attachment A Combined HAPs Compliance Worksheet

TG Missouri  
Perry County, LG844, T35N, R10E  
Project Number: 2019-08-070  
Installation ID Number: 157-0019  
Permit Number:

This sheet covers the period from \_\_\_\_\_ to \_\_\_\_\_. (Copy this sheet as needed.)  
(month, year) (month, year)

Column 1	Column 2 (a)	Column 3	Column 4	Column 5
Material Used, (Name, HAP CAS #)	Amount of Material Used (Include Units)	Density (lbs/gal)	HAP Content (Weight %)	HAP Emissions (Tons)
(b) Dioxin/Furan/PCB Emissions from Burn-Off Oven				
(c) Chromium Compound Emissions from CD-206, CD-220, CD-7, CD-234 and CD238				
Nickel Compound Emissions from Attachment B in Tons				
(d) Natural Gas Combustion Combined HAP Emissions in Tons				
(e) Total HAP Emissions Calculated for this Month in Tons				
(f) 12-Month HAP Emissions Total from Previous Month's Worksheet in Tons				
(g) Monthly HAP Emissions Total (d) from Previous Year's Worksheet in Tons				
(h) Current 12-month Total of HAP Emissions in Tons: (g) = [(d) + (e) - (f)]				

- (a) 1) If usage is in tons - [Column 2] x [Column 4] = [Column 5];
- 2) If usage is in pounds - [Column 2] x [Column 4] x [0.0005] = [Column 5];
- 3) If usage is in gallons - [Column 2] x [Column 3] x [Column 4] x [0.0005] = [Column 5];
- (b) For the burn-off oven (EP-256) use the emissions factors 6.37E-9/6.37E-9/5.10E-7 tons per rack coated; respectively.
- (c) Calculate the monthly chromium emissions (tons) using the permitted emission factor from 40 CFR 63 Subpart N, or AP-42 Section 12.20 *Electroplating*, respectively. Also record this month's nickel compound emissions from Attachment B.
- (d) Calculate the monthly combined HAP emissions from natural gas combustion. The emission factor is 1.888 pounds of combined HAPs per million cubic feet of natural gas. Convert to tons.
- (e) Summation of [Column 5, (c), and (d)] in Tons;
- (f) 12-Month HAP emissions (h) from last month's Attachment A in Tons;
- (g) Monthly HAP emissions total (e) from the previous year's Attachment A in Tons;
- (h) Calculate the new 12-month combined HAPs emissions total. A 12-Month HAP emissions total of less than 25.0 tons indicates compliance.

## Attachment B - Individual HAP Compliance Worksheet

TG Missouri  
Perry County, LG844, T35N, R10E  
Project Number: 2019-08-070  
Installation ID Number: 157-0019  
Permit Number:

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

SMAL for this HAP from Appendix B in tons per year \_\_\_\_\_

This sheet covers the month of \_\_\_\_\_ in the year \_\_\_\_\_. (Copy this sheet as needed.)

Column 1 (a)	Column 2 (b)
List materials that contain this HAP (Name, Type)	HAP emissions from Attachment A [Column 5] (in Tons)
(c) Total Individual HAP Emissions for this Month, Tons	
(d) 12-Month Individual HAP Emissions Total (f) from Previous Month's Worksheet B, Tons	
(e) Monthly Individual HAP Emissions Total (c) from Previous 12 Month's Worksheet B, Tons	
(f) Current 12-month Total of HAP Emissions in Tons: [(c) + (d) - (e)]	

- (a) Individually list each material which emits this specific HAP identified from Appendix A.
- (b) Record the Individual HAP emissions already calculated in Attachment A in [Column 5] in Tons;
- (c) Summation of [Column 2] in Tons;
- (d) Record the previous 12-Month individual HAP emission total (f) from last month's Attachment B, in Tons;
- (e) Record the monthly HAP emission total (c) from previous 12-Month Attachment B, in Tons;
- (f) Calculate the new 12-month individual HAP emissions total. A 12-Month individual HAP emissions total of less than SMAL indicates compliance.

## APPENDIX A

### Abbreviations and Acronyms

<b>%</b> ..... percent	<b>Mgal</b> ..... 1,000 gallons
<b>°F</b> ..... degrees Fahrenheit	<b>MW</b> ..... megawatt
<b>acfm</b> ..... actual cubic feet per minute	<b>MHDR</b> ..... maximum hourly design rate
<b>BACT</b> ..... Best Available Control Technology	<b>MMBtu</b> .... Million British thermal units
<b>BMPs</b> ..... Best Management Practices	<b>MMCF</b> ..... million cubic feet
<b>Btu</b> ..... British thermal unit	<b>MSDS</b> ..... Material Safety Data Sheet
<b>CAM</b> ..... Compliance Assurance Monitoring	<b>NAAQS</b> .... National Ambient Air Quality Standards
<b>CAS</b> ..... Chemical Abstracts Service	<b>NESHAPs</b> National Emissions Standards for Hazardous Air Pollutants
<b>CEMS</b> ..... Continuous Emission Monitor System	<b>NO<sub>x</sub></b> .....nitrogen oxides
<b>CFR</b> ..... Code of Federal Regulations	<b>NSPS</b> ..... New Source Performance Standards
<b>CO</b> ..... carbon monoxide	<b>NSR</b> ..... New Source Review
<b>CO<sub>2</sub></b> ..... carbon dioxide	<b>PM</b> .....particulate matter
<b>CO<sub>2e</sub></b> ..... carbon dioxide equivalent	<b>PM<sub>2.5</sub></b> ..... particulate matter less than 2.5 microns in aerodynamic diameter
<b>COMS</b> ..... Continuous Opacity Monitoring System	<b>PM<sub>10</sub></b> ..... particulate matter less than 10 microns in aerodynamic diameter
<b>CSR</b> ..... Code of State Regulations	<b>ppm</b> ..... parts per million
<b>dscf</b> ..... dry standard cubic feet	<b>PSD</b> ..... Prevention of Significant Deterioration
<b>EIQ</b> ..... Emission Inventory Questionnaire	<b>PTE</b> ..... potential to emit
<b>EP</b> ..... Emission Point	<b>RACT</b> ..... Reasonable Available Control Technology
<b>EPA</b> ..... Environmental Protection Agency	<b>RAL</b> ..... Risk Assessment Level
<b>EU</b> ..... Emission Unit	<b>SCC</b> ..... Source Classification Code
<b>fps</b> ..... feet per second	<b>scfm</b> ..... standard cubic feet per minute
<b>ft</b> ..... feet	<b>SDS</b> ..... Safety Data Sheet
<b>GACT</b> ..... Generally Available Control Technology	<b>SIC</b> ..... Standard Industrial Classification
<b>GHG</b> ..... Greenhouse Gas	<b>SIP</b> ..... State Implementation Plan
<b>gpm</b> ..... gallons per minute	<b>SMAL</b> ..... Screening Model Action Levels
<b>gr</b> ..... grains	<b>SO<sub>x</sub></b> ..... sulfur oxides
<b>GWP</b> ..... Global Warming Potential	<b>SO<sub>2</sub></b> ..... sulfur dioxide
<b>HAP</b> ..... Hazardous Air Pollutant	<b>SSM</b> ..... Startup, Shutdown & Malfunction
<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	
<b>m/s</b> ..... meters per second	

## Air Pollution Control Program

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

## Air Pollution Control Program

### 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
ETHYL CHLORIDE	75-00-3	10		Y	N	NITROBENZENE	98-95-3	1		Y	N
ETHYLENE GLYCOL	107-21-1	10		Y	N	NITROBIPHENYL, [4-]	92-93-3	1	V	Y	N
ETHYLENE GLYCOL MONOBUTYL ETHER (Delisted)	111-76-2					NITROPHENOL, [4-]	100-02-7	5		Y	N
ETHYLENE GLYCOL MONOHEXYL ETHER	112-25-4	5	P	Y	N	NITROPROPANE, [2-]	79-46-9	1		Y	N
ETHYLENE IMINE [AZIRIDINE]	151-56-4	0.003		Y	N	NITROSODIMETHYLAMINE, [N-]	62-75-9	0.001		Y	N
ETHYLENE OXIDE	75-21-8	0.1		Y	N	NITROSOMORPHOLINE, [N-]	59-89-2	1		Y	N
ETHYLENE THIOUREA	96-45-7	0.6		Y	Y	NITROSO-N-METHYLUREA, [N-]	684-93-5	0.0002		Y	N
FORMALDEHYDE	50-00-0	2		Y	N	OCTACHLORONAPHTHALENE	2234-13-1	0.01	V	Y	N
GLYCOL ETHER (ETHYLENE GLYCOL ETHERS)		5	P	Y	N	PARATHION	56-38-2	0.1		Y	Y
GLYCOL ETHER (DIETHYLENE GLYCOL ETHERS)		5	P	Y	N	PCB [POLYCHLORINATED BIPHENYLS]	1336-36-3	0.009	X	Y	Y
HEPTACHLOR	76-44-8	0.02		Y	N	PENTACHLORONITROBENZENE	82-68-8	0.3		Y	N
HEXACHLOROBENZENE	118-74-1	0.01		Y	N	PENTACHLOROPHENOL	87-86-5	0.7		Y	N
HEXACHLOROBUTADIENE	87-68-3	0.9		Y	N	PHENOL	108-95-2	0.1		Y	N
HEXACHLOROCYCLOHEXANE, [ALPHA-]	319-84-6	0.01	F	Y	N	PHENYLENEDIAMINE, [PARA-]	106-50-3	10		Y	N
HEXACHLOROCYCLOHEXANE, [BETA-]	319-85-7	0.01	F	Y	N	PHOSGENE	75-44-5	0.1		Y	N
HEXACHLOROCYCLOHEXANE, [DELTA-]	319-86-8	0.01	F	Y	N	PHOSPHINE	7803-51-2	5		N	N
HEXACHLOROCYCLOHEXANE, [TECHNICAL]	608-73-1	0.01	F	Y	N	PHOSPHOROUS (YELLOW OR WHITE)	7723-14-0	0.1		N	N
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.1		Y	N	PHTHALIC ANHYDRIDE	85-44-9	5		Y	N
HEXACHLOROETHANE	67-72-1	5		Y	N	POLYCYCLIC ORGANIC MATTER		0.01	V	Y	N
HEXAMETHYLENE,-1,6-DIISOCYANATE	822-06-0	0.02		Y	N	PROPANE SULTONE, [1,3-]	1120-71-4	0.03		Y	Y
HEXAMETHYLPHOSPHORAMIDE	680-31-9	0.01		Y	N	PROPIOLACTONE, [BETA-]	57-57-8	0.1		Y	N
HEXANE, [N-]	110-54-3	10		Y	N	PROPIONALDEHYDE	123-38-6	5		Y	N
HYDRAZINE	302-01-2	0.004		N	N	PROPOXUR [BAYGON]	114-26-1	10		Y	Y
HYDROGEN CHLORIDE	7647-01-0	10		N	N	PROPYLENE OXIDE	75-56-9	5		Y	N
HYDROGEN FLUORIDE	7664-39-3	0.1		N	N	PROPYLENEIMINE, [1,2-]	75-55-8	0.003		Y	N
HYDROQUINONE	123-31-9	1		Y	N	QUINOLINE	91-22-5	0.006		Y	N
INDENO(1,2,3CD)PYRENE	193-39-5	0.01	V	Y	N	QUINONE	106-51-4	5		Y	N
ISOPHORONE	78-59-1	10		Y	N	RADIONUCLIDES		Note 1	Y	N	Y
LEAD COMPOUNDS		0.01	Q	N	Y	SELENIUM COMPOUNDS		0.1	W	N	Y
LINDANE [GAMMA-HEXACHLOROCYCLOHEXANE]	58-89-9	0.01	F	Y	N	STYRENE	100-42-5	1		Y	N
MALEIC ANHYDRIDE	108-31-6	1		Y	N	STYRENE OXIDE	96-09-3	1		Y	N
MANGANESE COMPOUNDS		0.8	R	N	Y	TETRACHLORODIBENZO-P-DIOXIN,[2,3,7,8]	1746-01-6	6E-07	D,V	Y	Y
MERCURY COMPOUNDS		0.01	S	N	N	TETRACHLOROETHANE, [1,1,2,2-]	79-34-5	0.3		Y	N
METHANOL	67-56-1	10		Y	N	TETRACHLOROETHYLENE	127-18-4	10		N	N
METHOXYCHLOR	72-43-5	10	V	Y	Y	TITANIUM TETRACHLORIDE	7550-45-0	0.1		N	N
METHOXYETHANOL, [2-]	109-86-4	10	P	Y	N	TOLUENE	108-88-3	10		Y	N
METHYL CHLORIDE	74-87-3	10		Y	N	TOLUENE DIISOCYANATE, [2,4-]	584-84-9	0.1		Y	N
METHYL ETHYL KETONE (Delisted)	78-93-3					TOLUIDINE, [ORTHO-]	95-53-4	4		Y	N
METHYL HYDRAZINE	60-34-4	0.06		Y	N	TOXAPHENE	8001-35-2	0.01		Y	N
METHYL IODIDE	74-88-4	1		Y	N	TRICHLOROBENZENE, [1,2,4-]	120-82-1	10		Y	N
METHYL ISOBUTYL KETONE	108-10-1	10		Y	N	TRICHLOROETHANE, [1,1,1-]	71-55-6	10		N	N
METHYL ISOCYANATE	624-83-9	0.1		Y	N	TRICHLOROETHANE, [1,1,2-]	79-00-5	1		Y	N
METHYL METHACRYLATE	80-62-6	10		Y	N	TRICHLOROETHYLENE	79-01-6	10		Y	N
METHYL TERT-BUTYL ETHER	1634-04-4	10		Y	N	TRICHLOROPHENOL, [2,4,5-]	95-95-4	1		Y	N
METHYLCYCLOPENTADIENYL MANGANESE	12108-13-3	0.1	R	N	Y	TRICHLOROPHENOL, [2,4,6-]	88-06-2	6		Y	N
METHYLENE BIS(2-CHLOROANILINE), [4,4-]	101-14-4	0.2	V	Y	Y	TRIETHYLAMINE	121-44-8	10		Y	N
METHYLENEDIANILINE, [4,4-]	101-77-9	1	V	Y	N	TRIFLURALIN	1582-09-8	9		Y	Y
METHYLNAPHTHALENE, [2-]	91-57-6	0.01	V	Y	N	TRIMETHYLPENTANE, [2,2,4-]	540-84-1	5		Y	N
MINERAL FIBERS		0	T	N	Y	URETHANE [ETHYL CARBAMATE]	51-79-6	0.8		Y	N
NAPHTHALENE	91-20-3	10	V	Y	N	VINYL ACETATE	108-05-4	1		Y	N
NAPHTHYLAMINE, [ALPHA-]	134-32-7	0.01	V	Y	N	VINYL BROMIDE	593-60-2	0.6		Y	N
NAPHTHYLAMINE, [BETA-]	91-59-8	0.01	V	Y	N	VINYL CHLORIDE	75-01-4	0.2		Y	N
NICKEL CARBONYL	13463-39-3	0.1	U	N	Y	XYLENE, [META-]	108-38-3	10	G	Y	N
NICKEL COMPOUNDS		1	U	N	Y	XYLENES (MIXED ISOMERS)	1330-20-7	10	G	Y	N
NICKEL REFINERY DUST		0.08	U	N	Y						
NICKEL SUBSULFIDE	12035-72-2	0.04	U	N	Y						

## Air Pollution Control Program 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
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Legend	
Group ID	
A	Asbestos
B	Cresols/Cresylic Acid (isomers and mixtures)
C	2,4 - D, Salts and Esters
D	Dibenzofurans, Dibenzodioxins
E	4, 6 Dinitro-o-cresol, and Salts
F	Lindane (all isomers)
G	Xylenes (all isomers and mixtures)
H	Antimony Compounds
I	Arsenic Compounds
J	Beryllium Compounds
K	Cadmium 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	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