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: 092020-007 Project Number: 2020-06-009
Installation Number: 157-0019

Parent Company: TG Missouri Corporation

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

Installation Name: TG Missouri Corporation

Installation Address: 2200 Plattin Road, Perryville, MO 63775

Location Information: Perry County, S84, T35N, R10E

Application for Authority to Construct was made for:
A new automated paint spray booth at TG Missouri Corporation's Perryville, Missouri facility. 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.

Kendall B. Hale

Director or Designee
Department of Natural Resources

September 24, 2020
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.

<u>Contact Information</u>:
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:
<u>http://dnr.mo.gov/regions/</u>

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
   The conditions of this permit supersede Special Condition 2 found in the previously issued construction permit 012020-007 issued by the Air Pollution Control Program.

2. HAPs Emission Limitations
   A. 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). TG Missouri Corporation shall include all actual emissions in the limit including SSM emissions as well as any excess SSM emissions as reported to the Air Pollution Control Program's Compliance/Enforcement Section in accordance with the requirements of 10 CSR 10-6.050 *Start-Up, Shutdown, and Malfunction Conditions*.

Table 1: Installation HAP Emission Points

Emission Point	Description
EP-267	P-26 Paint Kitchen
EP-266	P-26 Cooling Zone Exhaust
EP-265	P-26 Cure Oven Exhaust
EP-264	P-26 Clear Coat Booth Stack
EP-263	P-26 Base Coat Booth Stack
EP-262	P-26 Primer Booth Stack
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

SPECIAL CONDITIONS:

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

Emission Point	Description
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
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)

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

Emission Point	Description
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.

3. $PM_{2.5}$ Emission Limitation

A. TG Missouri Corporation shall emit less than 10.0 tons of $PM_{2.5}$ in any consecutive 12-month period from emission units listed in Table 2. TG Missouri Corporation shall include all actual emissions in the limit including SSM emissions as well as any excess SSM emissions as reported to the Air Pollution Control Program's Compliance/Enforcement Section in accordance with the requirements of 10 CSR 10-6.050 *Start-Up, Shutdown, and Malfunction Conditions*.

Table 2: Project $PM_{2.5}$ Emission Points

Emission Point	Description
EP-267	P-26 Paint Kitchen
EP-266	P-26 Cooling Zone Exhaust
EP-265	P-26 Cure Oven Exhaust
EP-264	P-26 Clear Coat Booth Stack
EP-263	P-26 Base Coat Booth Stack
EP-262	P-26 Primer Booth Stack

B. Attachment C or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Conditions 3.A.

4. VOC Emission Limitation

A. TG Missouri Corporation shall emit less than 40.0 tons of VOC in any consecutive 12-month period from emission units listed in Table 3. TG Missouri Corporation shall include all actual emissions in the limit including SSM emissions as well as any excess SSM emissions as reported to the Air Pollution Control Program's Compliance/Enforcement Section in accordance with the requirements of 10 CSR 10-6.050 *Start-Up, Shutdown, and Malfunction Conditions*.

Table 3: Project VOC Emission Points

Emission Point	Description
EP-267	P-26 Paint Kitchen
EP-266	P-26 Cooling Zone Exhaust
EP-265	P-26 Cure Oven Exhaust
EP-264	P-26 Clear Coat Booth Stack

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

Emission Point	Description
EP-263	P-26 Base Coat Booth Stack
EP-262	P-26 Primer Booth Stack

B. Attachment D or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Conditions 4.A.

5. HAP Emission Limitation

A. TG Missouri Corporation shall emit less than the Screening Model Action Level (SMAL) of each HAP in any consecutive 12-month period from the emission units listed in Table 4. (See Appendix B or online at http://dnr.mo.gov/env/apcp/docs/cp-hapraltbl6.pdf for SMAL values) TG Missouri Corporation shall include all actual emissions in the limit including SSM emissions as well as any excess SSM emissions as reported to the Air Pollution Control Program's Compliance/Enforcement Section in accordance with the requirements of 10 CSR 10-6.050 *Start-Up, Shutdown, and Malfunction Conditions*.

Table 4: Project HAP Emission Points

Emission Point	Description
EP-267	P-26 Paint Kitchen
EP-266	P-26 Cooling Zone Exhaust
EP-265	P-26 Cure Oven Exhaust
EP-264	P-26 Clear Coat Booth Stack
EP-263	P-26 Base Coat Booth Stack
EP-262	P-26 Primer Booth Stack

B. Attachment E or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Conditions 5.A.

6. Control Device Requirement – Water Wall

A. TG Missouri Corporation shall control particulate matter emissions from EP-262, EP-263, and EP-264 using a water wall as specified in the permit application.

B. The water wall shall be operated and maintained in accordance with the manufacturer's specifications. TG Missouri Corporation shall maintain the operating air pressure drop within the design conditions specified by the manufacturer's performance warranty. The water wall shall be equipped with an air pressure switch which will automatically shut down the booth if the air pressure drop is outside of the manufacturer's recommended operational range.

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

C. TG Missouri Corporation shall inspect the wall of the water wall for complete coverage by a film of water and record findings of inspection before each shift.

D. TG Missouri Corporation shall maintain a copy of the water wall's manufacturer's performance warranty on site.

E. TG Missouri Corporation shall maintain an operating and maintenance log for the control device 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.

7. Capture Device Requirement – EP-262, EP-263, and EP-264
   A. All doors and windows of the booths shall be closed during operation.

   B. TG Missouri Corporation shall verify the proper operation of each paint booth with an air intake that is equipped with a pressure switch that will automatically shut down the booths if the makeup air is insufficient.

   C. TG Missouri Corporation shall design and construct each paint booth according to the Occupational Safety and Health Administration (OSHA) requirements, 29 CFR 1910.94(c)(6) *Velocity and air flow requirements*.

   D. TG Missouri Corporation shall demonstrate that each paint booth was constructed according to Special Condition 7.C. by keeping a record of the following design parameters:
      1) the minimum recommended face velocity
      2) engineering drawings which demonstrate that the spray booth was designed to meet the minimum face velocity

8. Alternative Materials
   A. TG Missouri Corporation is allowed to use alternative materials in EP-262, EP-263, and EP264 that are different from the materials listed in the Application to Construct.

   B. The limits established by Special Conditions 2, 3, 4, and 5 shall include the use of any alternative materials. Their emissions shall be accounted for in the recordkeeping associated with these limit.

   C. TG Missouri Corporation shall maintain a copy of the alternative material's information and other documentation (such as SDS) used to estimate the emissions. TG Missouri Corporation shall use the highest VOC and HAP

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

concentrations listed on the material's SDS to calculate and track emissions from the alternative materials.

9. 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 AirComplainceReporting@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: 2020-06-009
Installation ID Number: 157-0019
Permit Number: 092020-007

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

Perry County, S84, T35N, R10E

REVIEW SUMMARY

- TG Missouri Corporation has applied for authority to construct a new automated paint spray booth at their Perryville, Missouri facility.

- The application was deemed complete on June 2, 2020.

- HAP emissions are expected from the application and curing of paint in the automated spray booth and the combustion of natural gas in the heating oven. Individual HAP emissions for the project are limited to their SMAL by Special Condition 5 and combined HAP emissions for the installation are limited to de minimis levels by Special Condition 2.

- 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. MACT 6H may apply in the future due to alternative coatings.

- A water wall is being used to control the particulate matter emissions from the equipment in this permit.

- 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 conditioned 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 not performed since potential emissions of the application are below de minimis levels.

- Emissions testing is not required for the equipment as a part of this permit. Testing may be required as part of other state, federal or applicable rules.

- An application to amend this installation's Part 70 Operating Permit is required for this installation within 1 year of equipment startup.

- Approval of this permit is recommended with special conditions.

INSTALLATION DESCRIPTION

TG Missouri Corporation manufactures plastic 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 permits have been issued to TG Missouri Corporation from the Air Pollution Control Program.

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

Table 5: NSR 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

Permit Number	Description
0998-006	Installation of four (4) polyurethane paint booths
042002-018	Installation of a robotic paint booth
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	Automated paint booth
012020-007	Recoating operation for racks used in chrome plating line

PROJECT DESCRIPTION

TG Missouri Corporation proposes to install one new automated paint spray booth designated as P-26. The paint system will be similar to others already in use at the facility for coating plastic automobile parts.

The P-26 system will be used to coat plastic automobile parts with solvent-based, low-HAP coatings. Parts are first loaded onto a conveyor by operators. The parts travel to an automated CO_2 cleaning booth and sprayed with CO_2 utilizing a robot. The parts then move through a robotic primer spray booth. The primer booth contains two robots with one spray gun each and emits through emission point (EP-262). EP-262 operates at a maximum hourly design rate of 10.6 gallons per hour. The parts flash dry for two minutes and move to the robotic base coat spray booth. The base coat booth contains two robots with one spray gun each and emits through emission point (EP-263). EP-263 operates at a maximum hourly design rate of 9.06 gallons per hour. The parts flash dry for two minutes and move to the robotic clear coat spray booth. The clear coat booth contains two robots with one spray gun each and emits through emission point (EP-264). EP-264 operates at a maximum hourly design rate of 8.39 gallons per hour. The parts then flash off for 7 minutes at an ambient temperature and move through a 1 MMBtu/hr natural gas fired curing oven (EP-265) for 40 minutes at 175-212 °F. The parts then cool down in the cooling zone (EP-266) for 10 minutes and are manually unloaded by operators. A paints kitchen (EP-267) is used to mix paints for the P-26 system. P-26 operates as a continuous process so continuous operation (8760 hr/yr) is assumed in determining PTE.

TG Missouri Corporation is requesting to use the following coatings in Paint Booth System P-26.

Table 6: Coating Requested for use in Paint Booth System P-26

Material ID	Emission Point
Primer HP 21054 HSK	Primer Emission Point (EP-262)
Thinner IBIB (810143)	

Material ID	Emission Point
630S37 1J9 Silver Met 1K Base	Base Coat Emission Point (EP-263)
Thinner IBIB (SOO41005)	
R307LH 11BK01 Piano Shine BLK	
Thinner Base Coat T-22548	
Clear EK-AJ3120	Clear Coat Emission Point (EP-264)
Hardener J3501	
DIBK Solvent	

The spray guns used in the system are of the high volume low pressure (HVLP) type. EP- 262, EP-263, and EP-264 are controlled by a water wall. The overspray is collected at the bottom of the water wall and is pulled up the back section of the booth. The liquid and solids travel through a section of baffles which separate the solids from the air. A centrifuge spins the material and separates the solids and liquids. The solids (sludge) are collected in a basket and the water is sent back to the paint booth.

TG Missouri Corporation was issued construction permit 082018-014 for a similar paint booth, P-25, in August of 2018 and permit 012020-007 in January 2020 for a recoating operation for racks used in the chrome plating line. It is the Air Pollution Control Program's policy to make case-by-case determinations regarding project aggregation based on EPA's guidance documents and PSD applicability determinations. TG Missouri Corporation provided the following answers regarding project aggregation:

Permit 082018-014:

- How close is the timing of the projects?
    - Project P-25 (082018-014) was a Paint Line very similar to P-26 (2020-06-009). We submitted the construction permit for P-25 on 6/21/2018 and production started 3/1/2019. P-26 construction permit was submitted 6/1/2020 and production scheduled to begin 7/1/2021. P-25 startup date to P-26 startup date is 2 years four months.

Permit 012020-007:

- How close is the timing of the projects?
    - Project 012020-007 Rack Recoat was submitted 8/21/2019 with startup date scheduled in December of 2019. P-26 construction permit was submitted 6/1/2020 and production scheduled to begin 7/1/2021. There is 1 year and 7 months separation between startup of the two projects.
- Are the projects economically and/or technically dependent on each other?
    - There is no economic or technical relationship between the two projects. The rack recoat project supports our chrome plating operation, which is a separate process than painting.
- How related are the projects' scopes (do they contribute to the same overall production goals?)
    - The project scopes are not related. Rack Recoat is a support operation for our Chrome Plating Line. P-26 is a painting process. The Rack Recoat and P-26 support two different products all together.
- Are the projects funded or managed together or separately?

- The two projects are funded and managed separately and do not share any equipment.

Based on the above answers provided by TG Missouri Corporation, the new booth P-26 is being considered a separate project for this construction permit.

EMISSIONS/CONTROLS EVALUATION

The emissions from the paint booth were calculated using the maximum paint usage and material safety data sheets (MSDS) supplied by TG Missouri Corporation. All available VOCs were considered to be emitted. All HAPs in this review are volatile HAPs and are also considered to be emitted. All particulate matter emissions were assumed to be less than 2.5 micrometers in diameter. Coating was assigned 20 percent solids transfer efficiency as reported from TG Missouri Corporation from similar process yields. Overspray solids are controlled by the water wall. Solids are captured by the booth at 100 percent efficiency and controlled by the water wall at 95 percent efficiency. All solids were considered PM, PM_{10}, and $PM_{2.5}$.

The curing oven has a heat input capacity of 1.0 MMBtu/hr. Natural gas combustion emissions were calculated using AP-42 Section 1.4 “Natural Gas Combustion” (July 1998).

The following table provides an emissions summary for this project. Existing potential emissions were taken from Construction Permit 012020-007. Existing actual emissions were taken from the installation’s 2019 EIQ. Conditioned potential emissions of the application represent the PM_{10}, $PM_{2.5}$, VOC and HAPs limits for the new equipment requested by TG Missouri Corporation to avoid the air quality modeling requirements of 10 CSR 10-060(5)(D).

Table 7: Emissions Summary (tpy)

Pollutant	Regulatory *De Minimis* Levels	Existing Potential Emissions	Existing Actual Emissions (2019 EIQ)	Conditioned Potential Emissions of the Project	New Installation Conditioned Potential
PM	25.0	N/D	N/D	<10.0	N/A
PM_{10}	15.0	26.5	3.3	<10.0	N/A
$PM_{2.5}$	10.0	23.3	3.2	<10.0	N/A
SOx	40.0	0.3	0.03	0.0026	N/A
NOx	40.0	22.9	1.5	0.43	N/A
VOC	40.0	626.0	130.8	<40.0	N/A
CO	100.0	9.7	N/D	0.36	N/A
Combined HAPs	25.0	<25.0	2.3	N/A	<25.0
Each Individual HAP	10.0	<10.0	N/A	<SMAL	<10.0

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

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 conditioned 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 amended 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
    - Per 10 CSR 10-6.110(4)(B)2.B(II) and (4)(B)2.A a full EIQ is required for the first full calendar year the equipment approved by this permit are in operation and a full EIQ is required annually for Part 70 sources.
- *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: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources,* 40 CFR Part 63, Subpart HHHHHH may be required depending on use of alternative coatings.

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 June 1, 2020, received June 2, 2020, designating TG Missouri Corporation as the owner and operator of the installation.

Attachment A Combined HAPs Compliance Worksheet

TG Missouri Corporation
Perry County, S84, T35N, R10E
Project Number: 2020-06-009
Installation ID Number: 157-0019
Permit Number: 092020-007

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) Storage Tanks Combined HAP Emissions in Tons				
(f) Emergency Generator Combined HAP Emissions in Tons				
(h) Total HAP Emissions Calculated for this Month in Tons				
(i) 12-Month HAP Emissions Total from Previous Month's Worksheet in Tons				
(j) Monthly HAP Emissions Total (h) from Previous Year's Worksheet in Tons				
(k) Current 12-month Total of HAP Emissions in Tons: (k) = [(h) + (i) - (j)]				

(a) 1) If usage is in tons - [Column 2] × [Column 4] = [Column 5];
2) If usage is in pounds - [Column 2] × [Column 4] × [0.0005] = [Column 5];
3) If usage is in gallons - [Column 2] × [Column 3] × [Column 4] × [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. Use emission factors from AP-42 Section 1.4 Natural Gas Combustion. Convert to tons.
(e) Calculate the monthly combined HAP emissions from storage tanks. Use equations from AP-42 Section 7.1 Organic Liquid Storage Tanks. Convert to tons.
(f) Calculate the monthly combined HAP emissions from emergency generators. Use emission factors from AP-42 Section 3.3 Gasoline and Diesel Industrial Engines for emergency generators less than or equal to 600 hp or AP-42 Section 3.4 Large Stationary Diesel and All Stationary Dual-fuel Engines for emergency generators greater than 600 hp. Convert to tons.
(h) Summation of [Column 5] in Tons;
(i) 12-Month HAP emissions (k) from last month's Attachment A in Tons;
(j) Monthly HAP emissions total (h) from the previous year's Attachment A in Tons;
(k) 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 Corporation
Perry County, S84, T35N, R10E
Project Number: 2020-06-009
Installation ID Number: 157-0019
Permit Number: 092020-007

HAP Name: _____ CAS No.: _____

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 10.0 tons indicates compliance.

Attachment C – Project $PM_{2.5}$ Compliance Worksheet

TG Missouri Corporation
Perry County, S84, T35N, R10E
Project Number: 2020-06-009
Installation ID Number: 157-0019
Permit Number: 092020-007

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

Column 1 (a)	Column 2	Column 3 (b)	Column 4 (c)	Column 5 (d)	Column 6 (e)
Name of Coating Used	Amount of Coating Used (Gallons)	Density (lb/gal)	Solids Content (Wt %)	Control Efficiency (%)	$PM_{2.5}$ Emissions (tons)
Total $PM_{2.5}$ Emissions from Natural Gas Combustion, Tons					
Total $PM_{2.5}$ Emissions from Paint Kitchen EP-267, Tons					
(f) Total $PM_{2.5}$ SSM Emissions in tons					
(g) Total $PM_{2.5}$ Emissions Calculated for this Month, Tons					
(h) 12-Month Rolling $PM_{2.5}$ Emissions Total from Previous Month's Attachment A, Tons					
(i) Monthly $PM_{2.5}$ Emissions Total from Previous Year's Attachment A, Tons					
(j) Current 12-month Rolling Total of $PM_{2.5}$ Emissions, Tons					

(a) Coatings name
(b) Highest density as reported in the coatings SDS or MSDS.
(c) Highest Solids content as reported in the coatings SDS or MSDS = (100%. – Volatile Content Weight %)
(d) The overall PM control efficiency includes the HVLP transfer efficiency (20%), booth capture efficiency (100%), and water wall control efficiency (95%): 20% + (1 - 20%) × 100% × 95% = 96%
(e) $PM_{2.5}$ Emissions (tons) = [Amount of Coating Used (gallons)] × [Density (lb/gal)] × [Solids Content (Wt. %)] × 0.0005 tons/lb.
(f) Calculate $PM_{2.5}$ emissions from the paint kitchen using emission factors in AP-42 Section 6.4 Paint and Varnish
(g) Monthly $PM_{2.5}$ SSM Emissions (tons) = the sum of all $PM_{2.5}$ SSM emissions reported to the Air Pollution Control Program during the calendar month in accordance with 10 CSR 10-6.050. The installation shall retain documentation of all SSM reports and their supporting $PM_{2.5}$ SSM emissions calculations.
(h) Total $PM_{2.5}$ emissions from all coatings used, natural gas combustion and SSM.
(i) 12-Month Rolling $PM_{2.5}$ emissions total (tons) from last month's Attachment B, in tons;
(j) Monthly $PM_{2.5}$ emissions total (tons) from previous year's Attachment B, in tons;
(k) Calculate the new 12-month Rolling $PM_{2.5}$ emissions total by using [8]+[9]-[10]

A 12-Month Rolling $PM_{2.5}$ emissions total of less than 10.0 tons indicates compliance.

Attachment D – Project VOC Compliance Worksheet

TG Missouri Corporation
Perry County, S84, T35N, R10E
Project Number: 2020-06-009
Installation ID Number: 157-0019
Permit Number: 092020-007

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

Column 1 (a)	Column 2	Column 3 (b)	Column 4 (c)	Column 5 (d)
Name of Coating Used	Amount of Coating Used (Gallons)	Density (lb/gal)	VOC Content (Wt %)	VOC Emissions (tons)
Total VOC Emissions from Natural Gas Combustion, Tons				
(e) Total VOC Emissions Calculated for this Month, Tons				
(f) 12-Month Rolling VOC Emissions Total from Previous Month's Attachment A, Tons				
(g) Monthly VOC Emissions Total from Previous Year's Attachment A, Tons				
(h) Current 12-month Rolling Total of VOC Emissions, Tons				

(a) Coating name
(b) Highest density as reported in the coatings SDS or MSDS.
(c) Highest VOC content as reported in the coatings SDS or MSDS.
(d) VOC Emissions (tons) = [Amount of Coating Used (gallons)] x [Density (lb/gal)] x [VOC Content (Wt. %)] x 0.0005 tons/lb.
(e) Total VOC emissions from all coatings used and natural gas combustion.
(f) 12-Month Rolling VOC emissions total (tons) from last month's Attachment A, in tons;
(g) Monthly VOC emissions total (tons) from previous year's Attachment A, in tons;
(h) Calculate the new 12-month Rolling VOC emissions total by using [5]+[6]-[7]

A 12-Month Rolling VOC emissions total of less than 40.0 tons indicates compliance.

Attachment E – Project – P-26 SMAL HAP Tracking Sheet

TG Missouri Corporation
Perry County, S84, T35N, R10E
Project Number: 2020-06-009
Installation ID Number: 157-0019
Permit Number: 092020-007

Date:
HAP Name:_____CAS No:_____SMAL:_____
Copy this sheet as needed so that each individual HAP is calculated

A	B	C	D	E	F	G	H	I	J
Coating Name	HAP is also PM (yes / no)	Individual HAP Content (max weight %)	Maximum Density of Coating (lb/gal)	Usage (gallons per month)	Overall PM Control Efficiency (%)	Individual HAP Emissions (tons per month)	Individual HAP PTE 12 Month Rolling Total from Previous Month's Attachment C in tons	Individual HAP Monthly Emission Total from Previous Year's Attachment C	Current 12-month Total of Individual HAP emissions in tons
Ex. Coating with volatile HAPs	*no*	*2.0%*	*1.587*	*1,000*	*N/A*	*0.02*	*0.00*	*0.00*	*0.02*
Ex. Coating with solid HAP	*yes*	*0.5%*	*1.587*	*1,000*	*96.0*	*0.0002*	*0.00*	*0.00*	*0.0002*

A. Record all of the coatings that contain this individual HAP
B. Compare the HAP to Appendix B for verification as particulate matter.
C. Record the maximum weight percent of the HAP from the MSDS.
D. Record the maximum density of the coating from the MSDS
E. Record the monthly usage from the coating: E = D × (gallons of coating used this month).
F. The overall PM control efficiency includes the HVLP transfer efficiency (20%), booth capture efficiency (100%), and water wall control efficiency (95%): 20% + (1 - 20%) × 100% × 95% = 96%. Do not apply an overall PM control efficiency if the HAP is not PM.
G. Calculate the particulate matter HAP emissions: G = C × E × D × (1 - F) / 2,000. Otherwise calculate the volatile HAP potential to emit: G = C × E × D / 2,000.
H. 12-Month Rolling Individual HAP emissions total (tons) from last month's Attachment C, in tons
I. Monthly Individual HAP emissions total (tons) from previous year's Attachment C, in tons
J. Calculate the new 12-month Rolling Individual HAP emissions totals by using J = G + H - I

Record the individual HAP SMAL from the most recent Appendix B, also available at http://www.dnr.mo.gov/env/apcp/permits/constpmtguide.htm as *Table of Hazardous Air Pollutants, Screening Model Action Levels and Risk Assessment Levels*.

APPENDIX A

Abbreviations and Acronyms

% ..... percent
ºF ..... degrees Fahrenheit
acfm ..... actual cubic feet per minute
BACT ..... Best Available Control Technology
BMPs ..... Best Management Practices
Btu ..... British thermal unit
CAM ..... Compliance Assurance Monitoring
CAS ..... Chemical Abstracts Service
CEMS ..... Continuous Emission Monitor System
CFR ..... Code of Federal Regulations
CO ..... carbon monoxide
CO_2 ..... carbon dioxide
CO_2e ..... carbon dioxide equivalent
COMS ..... Continuous Opacity Monitoring System
CSR ..... Code of State Regulations
dscf ..... dry standard cubic feet
EIQ ..... Emission Inventory Questionnaire
EP ..... Emission Point
EPA ..... Environmental Protection Agency
EU ..... Emission Unit
fps ..... feet per second
ft ..... feet
GACT ..... Generally Available Control Technology
GHG ..... Greenhouse Gas
gpm ..... gallons per minute
gr ..... grains
GWP ..... Global Warming Potential
HAP ..... Hazardous Air Pollutant
hr ..... hour
hp ..... horsepower
lb ..... pound
lbs/hr ..... pounds per hour
MACT ..... Maximum Achievable Control Technology
$\mu g/m^3$ ..... micrograms per cubic meter
m/s ..... meters per second
Mgal ..... 1,000 gallons
MW ..... megawatt
MHDR ..... maximum hourly design rate
MMBtu ..... Million British thermal units
MMCF ..... million cubic feet
MSDS ..... Material Safety Data Sheet
NAAQS ..... National Ambient Air Quality Standards
NESHAPs National Emissions Standards for Hazardous Air Pollutants
NO_x ..... nitrogen oxides
NSPS ..... New Source Performance Standards
NSR ..... New Source Review
PM ..... particulate matter
$PM_{2.5}$ ..... particulate matter less than 2.5 microns in aerodynamic diameter
PM_{10} ..... particulate matter less than 10 microns in aerodynamic diameter
ppm ..... parts per million
PSD ..... Prevention of Significant Deterioration
PTE ..... potential to emit
RACT ..... Reasonable Available Control Technology
RAL ..... Risk Assessment Level
SCC ..... Source Classification Code
scfm ..... standard cubic feet per minute
SDS ..... Safety Data Sheet
SIC ..... Standard Industrial Classification
SIP ..... State Implementation Plan
SMAL ..... Screening Model Action Levels
SO_x ..... sulfur oxides
SO_2 ..... sulfur dioxide
SSM ..... Startup, Shutdown & Malfunction
tph ..... tons per hour
tpy ..... tons per year
VMT ..... vehicle miles traveled
VOC ..... Volatile Organic Compound

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 EMMISIONS	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
AMINOBIPHENYL, [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	DICHLOROBENZENE, [1,4-]	106-46-7	3		Y	N
BENZO(A)PYRENE	50-32-8	0.01	V	Y	N	DICHLOROBENZIDENE, [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

ETHYL CHLORIDE	75-00-3	10		Y	N
ETHYLENE GLYCOL	107-21-1	10		Y	N
ETHYLENE GLYCOL MONOBUTYL ETHER (Delisted)	111-76-2				
ETHYLENE GLYCOL MONOHEXYL ETHER	112-25-4	5	P	Y	N
ETHYLENE IMINE [AZIRIDINE]	151-56-4	0.003		Y	N
ETHYLENE OXIDE	75-21-8	0.1		Y	N
ETHYLENE THIOUREA	96-45-7	0.6		Y	Y
FORMALDEHYDE	50-00-0	2		Y	N
GLYCOL ETHER (ETHYLENE GLYCOL ETHERS)		5	P	Y	N
GLYCOL ETHER (DIETHYLENE GLYCOL ETHERS)		5	P	Y	N
HEPTACHLOR	76-44-8	0.02		Y	N
HEXACHLOROBENZENE	118-74-1	0.01		Y	N
HEXACHLOROBUTADIENE	87-68-3	0.9		Y	N
HEXACHLOROCYCLOHEXANE, [ALPHA-]	319-84-6	0.01	F	Y	N
HEXACHLOROCYCLOHEXANE, [BETA-]	319-85-7	0.01	F	Y	N
HEXACHLOROCYCLOHEXANE, [DELTA-]	319-86-8	0.01	F	Y	N
HEXACHLOROCYCLOHEXANE, [TECHNICAL]	608-73-1	0.01	F	Y	N
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.1		Y	N
HEXACHLOROETHANE	67-72-1	5		Y	N
HEXAMETHYLENE,-1,6-DIISOCYANATE	822-06-0	0.02		Y	N
HEXAMETHYLPHOSPHORAMIDE	680-31-9	0.01		Y	N
HEXANE, [N-]	110-54-3	10		Y	N
HYDRAZINE	302-01-2	0.004		N	N
HYDROGEN CHLORIDE	7647-01-0	10		N	N
HYDROGEN FLUORIDE	7664-39-3	0.1		N	N
HYDROQUINONE	123-31-9	1		Y	N
INDENO(1,2,3CD)PYRENE	193-39-5	0.01	V	Y	N
ISOPHORONE	78-59-1	10		Y	N
LEAD COMPOUNDS		0.01	Q	N	Y
LINDANE [GAMMA-HEXACHLOROCYCLOHEXANE]	58-89-9	0.01	F	Y	N
MALEIC ANHYDRIDE	108-31-6	1		Y	N
MANGANESE COMPOUNDS		0.8	R	N	Y
MERCURY COMPOUNDS		0.01	S	N	N
METHANOL	67-56-1	10		Y	N
METHOXYCHLOR	72-43-5	10	V	Y	Y
METHOXYETHANOL, [2-]	109-86-4	10	P	Y	N
METHYL CHLORIDE	74-87-3	10		Y	N
METHYL ETHYL KETONE (Delisted)	78-93-3				
METHYL HYDRAZINE	60-34-4	0.06		Y	N
METHYL IODIDE	74-88-4	1		Y	N
METHYL ISOBUTYL KETONE	108-10-1	10		Y	N
METHYL ISOCYANATE	624-83-9	0.1		Y	N
METHYL METHACRYLATE	80-62-6	10		Y	N
METHYL TERT-BUTYL ETHER	1634-04-4	10		Y	N
METHYLCYCLCOPENTADIENYL MANGANESE	12108-13-3	0.1	R	N	Y
METHYLENE BIS(2-CHLOROANILINE), [4,4-]	101-14-4	0.2	V	Y	Y
METHYLENEDIANILINE, [4,4-]	101-77-9	1	V	Y	N
METHYLNAPHTHALENE, [2-]	91-57-6	0.01	V	Y	N
MINERAL FIBERS		0	T	N	Y
NAPHTHALENE	91-20-3	10	V	Y	N
NAPHTHYLAMINE, [ALPHA-]	134-32-7	0.01	V	Y	N
NAPHTHYLAMINE, [BETA-]	91-59-8	0.01	V	Y	N
NICKEL CARBONYL	13463-39-3	0.1	U	N	Y
NICKEL COMPOUNDS		1	U	N	Y
NICKEL REFINERY DUST		0.08	U	N	Y
NICKEL SUBSULFIDE	12035-72-2	0.04	U	N	Y

NITROBENZENE	98-95-3	1		Y	N
NITROBIPHENYL, [4-]	92-93-3	1	V	Y	N
NITROPHENOL, [4-]	100-02-7	5		Y	N
NITROPROPANE, [2-]	79-46-9	1		Y	N
NITROSODIMETHYLAMINE, [N-]	62-75-9	0.001		Y	N
NITROSOMORPHOLINE, [N-]	59-89-2	1		Y	N
NITROSO-N-METHYLUREA, [N-]	684-93-5	0.0002		Y	N
OCTACHLORONAPTHALENE	2234-13-1	0.01	V	Y	N
PARATHION	56-38-2	0.1		Y	Y
PCB [POLYCHLORINATED BIPHENYLS]	1336-36-3	0.009	X	Y	Y
PENTACHLORONITROBENZENE	82-68-8	0.3		Y	N
PENTACHLOROPHENOL	87-86-5	0.7		Y	N
PHENOL	108-95-2	0.1		Y	N
PHENYLENEDIAMINE, [PARA-]	106-50-3	10		Y	N
PHOSGENE	75-44-5	0.1		Y	N
PHOSPHINE	7803-51-2	5		N	N
PHOSPHOROUS (YELLOW OR WHITE)	7723-14-0	0.1		N	N
PHTHALIC ANHYDRIDE	85-44-9	5		Y	N
POLYCYLIC ORGANIC MATTER		0.01	V	Y	N
PROPANE SULTONE, [1,3-]	1120-71-4	0.03		Y	Y
PROPIOLACTONE, [BETA-]	57-57-8	0.1		Y	N
PROPIONALDEHYDE	123-38-6	5		Y	N
PROPOXUR [BAYGON]	114-26-1	10		Y	Y
PROPYLENE OXIDE	75-56-9	5		Y	N
PROPYLENEIMINE, [1,2-]	75-55-8	0.003		Y	N
QUINOLINE	91-22-5	0.006		Y	N
QUINONE	106-51-4	5		Y	N
RADIONUCLIDES		Note 1	Y	N	Y
SELENIUM COMPOUNDS		0.1	W	N	Y
STYRENE	100-42-5	1		Y	N
STYRENE OXIDE	96-09-3	1		Y	N
TETRACHLORODIBENZO-P-DIOXIN,[2,3,7,8]	1746-01-6	6E-07	D,V	Y	Y
TETRACHLOROETHANE, [1,1,2,2-]	79-34-5	0.3		Y	N
TETRACHLOROETHYLENE	127-18-4	10		N	N
TITANIUM TETRACHLORIDE	7550-45-0	0.1		N	N
TOLUENE	108-88-3	10		Y	N
TOLUENE DIISOCYANATE, [2,4-]	584-84-9	0.1		Y	N
TOLUIDINE, [ORTHO-]	95-53-4	4		Y	N
TOXAPHENE	8001-35-2	0.01		Y	N
TRICHLOROBENZENE, [1,2,4-]	120-82-1	10		Y	N
TRICHLOROETHANE, [1,1,1-]	71-55-6	10		N	N
TRICHLOROETHANE, [1,1,2-]	79-00-5	1		Y	N
TRICHLOROETHYLENE	79-01-6	10		Y	N
TRICHLOROPHENOL, [2,4,5-]	95-95-4	1		Y	N
TRICHLOROPHENOL, [2,4,6-]	88-06-2	6		Y	N
TRIETHYLAMINE	121-44-8	10		Y	N
TRIFLURALIN	1582-09-8	9		Y	Y
TRIMETHYLPENTANE, [2,2,4-]	540-84-1	5		Y	N
URETHANE [ETHYL CARBAMATE]	51-79-6	0.8		Y	N
VINYL ACETATE	108-05-4	1		Y	N
VINYL BROMIDE	593-60-2	0.6		Y	N
VINYL CHLORIDE	75-01-4	0.2		Y	N
XYLENE, [META-]	108-38-3	10	G	Y	N
XYLENES (MIXED ISOMERS)	1330-20-7	10	G	Y	N

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

Missouri Department of NATURAL RESOURCES
dnr.mo.gov
Michael L. Parson, Governor
Carol S. Comer, Director

September 24, 2020

Tim Baer
Assistant General Manager Environmental
TG Missouri Corporation
2200 Plattin Road
Perryville, MO 63775

RE: New Source Review Permit - Project Number: 2020-06-009

Dear Tim 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.

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If you have any questions regarding this permit, please do not hesitate to contact Jared Rhodes, 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:jara

Enclosures

c: Southeast Regional Office
PAMS File: 2020-06-009

Permit Number: 092020-007