# TG AUTOMOTIVE SEALING KENTUCKY, LLC

# APPLICATION FOR RENEWAL OF AIR PERMIT

**Prepared for:**

**TG ASK**
**510 FRANK YOST LANE**
**HOPKINSVILLE, KY 42240**

**Prepared by:**

**EHS Technology Group, LLC**
**2912 Springboro Road West**
**Dayton, OH 45439**

**JULY 2024**

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# SECTION 1.0

# EXECUTIVE SUMMARY

EHS Technology Group, LLC (EHS) prepared this air permit application for TG Automotive Sealing Kentucky, LLC (TGASK). TGASK operates a manufacturing facility located at 510 Frank Yost Lane in Hopkinsville, KY, 42240, and produces automotive sealing products. The facility received authorization to operate under Conditional Major Permit F-19-042 as a synthetic minor source. This permit expires on January 30, 2025. This application is for renewal of the air permit. The potential emissions are now at a level for which a State Origin Permit would be appropriate since the facility is minor for all pollutants. Section 5.0 includes the facility-wide potential emissions, confirming that the facility is now a minor source.

There are not any new installations of equipment/air emission units at the facility. However, upon review of existing operations it was found that the following units need to be added to the permit: two small natural gas fired emergency generators, miscellaneous finishing operations, and flock adhesive operation. The finishing operations and flock operation qualify as insignificant emission units, as shown in the emission calculations in Section 5.0.

One insignificant operation, identified as Purge & Manual Clean-up Operations, can be removed from the list of insignificant activities because the solvents used for purging and cleanup operations are part of the parent operation for which purging or cleaning are taking place (such as coating) or cleaning solvents can also be used as part of the small miscellaneous finishing operations. These use of these materials is tracked each month and included in the facility total emission calculations.

## SECTION 2.0

## DEP7007AI – ADMINISTRATIVE INFORMATION

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

# DEP7007AI

## Administrative Information

___ Section AI.1: Source Information

___ Section AI.2: Applicant Information

___ Section AI.3: Owner Information

___ Section AI.4: Type of Application

___ Section AI.5: Other Required Information

___ Section AI.6: Signature Block

___ Section AI.7: Notes, Comments, and Explanations

**Additional Documentation**

___ Additional Documentation attached

**Source Name:** V **TG Automotive Sealing Kentucky, LLC**

**KY EIS (AFS) #:** **21- 047-00108**

**Permit #:** **F-19-042**

**Agency Interest (AI) ID:** **4417**

**Date:** **7/25/2024**

## Section AI.1: Source Information

| | | | | | | |
|---|---|---|---|---|---|---|
| **Physical Location Address:** | **Street:** | 501 Frank Yost Lane | | | | |
| | **City:** | Hopkinsville | **County:** | Christian | **Zip Code:** | 42240 |
| **Mailing Address:** | **Street or P.O. Box:** | (same) | | | | |
| | **City:** | | **State:** | | **Zip Code:** | |

### Standard Coordinates for Source Physical Location

**Longitude:** 36.804444 (decimal degrees) **Latitude:** -87.389444 (decimal degrees)

**Primary (NAICS) Category:** Manufacturing - Motor Vehicle Parts **Primary NAICS #:** 336390

**Classification (SIC) Category:** Manufacturing - Motor Vehicle Parts **Primary SIC #:** 3714

**Briefly discuss the type of business conducted at this site:** Manufacturing of rubber and plastic automotive sealing products and assembly of automotive air bags.

**Description of Area Surrounding Source:** ☐ Rural Area ☑ Industrial Park ☐ Residential Area ☐ Urban Area ☐ Industrial Area ☐ Commercial Area

**Is any part of the source located on federal land?** ☐ Yes ☑ No

**Number of Employees:** 420

**Approximate distance to nearest residence or commercial property:** *525 meters*

**Property Area:** **90 acres**

**Is this source portable?** ☐ Yes ☑ No

**What other environmental permits or registrations does this source currently hold or need to obtain in Kentucky?**

| | | | |
|---|---|---|---|
| **NPDES/KPDES:** | ☑ Currently Hold | ☐ Need | ☐ N/A |
| **Solid Waste:** | ☑ Currently Hold | ☐ Need | ☐ N/A |
| **RCRA:** | ☐ Currently Hold | ☐ Need | ☑ N/A |
| **UST:** | ☐ Currently Hold | ☐ Need | ☑ N/A |

**Type of Regulated Waste Activity:**

☐ Mixed Waste Generator ☑ Generator ☐ Recycler ☐ Other: _____

☐ U.S. Importer of Hazardous Waste ☐ Transporter ☐ Treatment/Storage/Disposal Facility ☐ N/A

## Section AI.2: Applicant Information

**Applicant Name:** TG Automotive Sealing Kentucky, LLC

**Title:** (if individual)

**Mailing Address:**
**Street or P.O. Box:** 510 Frank Yost Lane
**City:** Hopkinsville **State:** Ky **Zip Code:** 42240

**Email:** (if individual)

**Phone:** (270) 475-1400

**Technical Contact**

**Name:** Jackie R Cantrell (JR)

**Title:** EHS Manager

**Mailing Address:**
**Street or P.O. Box:** 501 Frank Yost Lane
**City:** Hopkinsville **State:** KY **Zip Code:** 42240

**Email:** Jackie.Cantrell@toyodagosei.com

**Phone:** (270) 475-1653

**Air Permit Contact for Source**

**Name:** (same)

**Title:**

**Mailing Address:**
**Street or P.O. Box:**
**City:** **State:** **Zip Code:**

**Email:**

**Phone:**

## Section AI.3: Owner Information

☑ **Owner same as applicant**

**Name:** _____

**Title:** _____

**Mailing Address:** **Street or P.O. Box:** _____

**City:** _____ **State:** _____ **Zip Code:** _____

**Email:** _____

**Phone:** _____

**List names of owners and officers of the company who have an interest in the company of 5% or more.**

| Name | Position |
|---|---|
| | |
| | |
| | |

## Section AI.4: Type of Application

**Current Status:** ☐ Title V ☑ Conditional Major ☐ State-Origin ☐ General Permit ☐ Registration ☐ None

**Requested Action:** *(check all that apply)*

| | | | |
|---|---|---|---|
| ☐ Name Change | ☐ Initial Registration | ☐ Significant Revision | ☐ Administrative Permit Amendment |
| ☑ Renewal Permit | ☐ Revised Registration | ☐ Minor Revision | ☐ Initial Source-wide OperatingPermit |
| ☐ 502(b)(10)Change | ☐ Extension Request | ☐ Addition of New Facility | ☐ Portable Plant Relocation Notice |
| ☑ Revision | ☐ Off Permit Change | ☐ Landfill Alternate Compliance Submittal | ☐ Modification of Existing Facilities |
| ☐ Ownership Change | ☐ Closure | | |

**Requested Status:** ☐ Title V ☐ Conditional Major ☑ State-Origin ☐ PSD ☐ NSR ☐ Other: _____

**Is the source requesting a limitation of potential emissions?** ☐ Yes ☑ No

| Pollutant: | Requested Limit: | Pollutant: | Requested Limit: |
|---|---|---|---|
| ☐ Particulate Matter | | ☐ Single HAP | |
| ☐ Volatile Organic Compounds (VOC) | | ☐ Combined HAPs | |
| ☐ Carbon Monoxide | | ☐ Air Toxics (40 CFR 68, Subpart F) | |
| ☐ Nitrogen Oxides | | ☐ Carbon Dioxide | |
| ☐ Sulfur Dioxide | | ☐ Greenhouse Gases (GHG) | |
| ☐ Lead | | ☐ Other | |

**For New Construction:**

**Proposed Start Date of Construction:** *(MM/YYYY)* _____ **Proposed Operation Start-Up Date:** *(MM/YYYY)* _____

**For Modifications:**

**Proposed Start Date of Modification:** *(MM/YYYY)* _____ **Proposed Operation Start-Up Date:** *(MM/YYYY)* _____

**Applicant is seeking coverage under a permit shield.** ☐ **Yes** ☑ **No**

**Identify any non-applicable requirements for which permit shield is sought on a separate attachment to the application.**

## Section AI.5 Other Required Information

**Indicate the documents attached as part of this application:**

- ☐ DEP7007A Indirect Heat Exchangers and Turbines
- ☑ DEP7007B Manufacturing or Processing Operations
- ☐ DEP7007C Incinerators and Waste Burners
- ☐ DEP7007F Episode Standby Plan
- ☐ DEP7007J Volatile Liquid Storage
- ☑ DEP7007K Surface Coating or Printing Operations
- ☐ DEP7007L Mineral Processes
- ☐ DEP7007M Metal Cleaning Degreasers
- ☐ DEP7007N Source Emissions Profile
- ☐ DEP7007P Perchloroethylene Dry Cleaning Systems
- ☐ DEP7007R Emission Offset Credit
- ☐ DEP7007S Service Stations
- ☐ DEP7007T Metal Plating and Surface Treatment Operations
- ☑ DEP7007V Applicable Requirements and Compliance Activities
- ☐ DEP7007Y Good Engineering Practice and Stack Height Determination
- ☐ DEP7007AA Compliance Schedule for Non-complying Emission Units
- ☐ DEP7007BB Certified Progress Report
- ☐ DEP7007CC Compliance Certification
- ☑ DEP7007DD Insignificant Activities
- ☑ DEP7007EE Internal Combustion Engines
- ☐ DEP7007FF Secondary Aluminum Processing
- ☐ DEP7007GG Control Equipment
- ☐ DEP7007HH Haul Roads
- ☐ Confidentiality Claim
- ☐ Ownership Change Form
- ☐ Secretary of State Certificate
- ☑ Flowcharts or diagrams depicting process
- ☐ Digital Line Graphs (DLG) files of buldings, roads, etc.
- ☐ Site Map
- ☐ Map or drawing depicting location of facility
- ☐ Safety Data Sheet (SDS)
- ☐ Emergency Response Plan
- ☑ Other: _____

## Section AI.6: Signature Block

**I, the undersigned, hereby certify under penalty of law, that I am a responsible official*, and that I have personally examined, and am familiar with, the information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the information is on knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false or incomplete information, including the possibility of fine or imprisonment.**

| Jackie R Cantrell | 07/29/2024 |
|---|---|
| **Authorized Signature** | **Date** |
| Jackie R Cantrell | EHS Manager |
| **Type or Printed Name of Signatory** | **Title of Signatory** |

*Responsible official as defined by 401 KAR 52:001.

| Section AI.7: Notes, Comments, and Explanations |
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**SECTION 3.0**

**DEP7007K – SURFACE COATING**
**DEP7007B – MANUFACTURING OPERATIONS**
**DEP7007EE – GENERATORS**
**DEP7007V – APPLICABLE REQUIREMENTS**

# DEP7007K

## Surface Coating or Printing Operations

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

__ Section K.1: Process Information

__ Section K.2: Coating Operations

__ Section K.3: Other Operations

__ Section K.4: Coatings/Printing Materials as Applied

__ Section K.5: HAP-containing Coatings/Printing Materials

__ Section K.6: Notes, Comments, and Explanations

**Additional Documentation**

___ Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG.

___ Attach SDS or Technical Sheets for all Coating/Printing Materials

___ Attach a flow diagram

**Source Name:** **TG Automotive Sealing Kentucky, LLC**

**KY EIS (AFS) #:** **21- 047-00108**

**Permit #:** **F-19-042**

**Agency Interest (AI) ID:** **4417**

**Date:** **7/25/2024**

## Section K.1: Process Information

**Emission Unit #:** Emission Point 04

**Emission Unit Name:** Line # A4 Rubber Line

**Coating/Printing Line Name:** Line # A4 Rubber Line Coating (MP4)

**Proposed/Actual Date of Construction:** *(MM/YYYY)* 2020 modified

**List Applicable Regulations:** 401 KAR 63:020

**Describe Overall Process:** spray application of coating to rubber parts

**Describe Coatings/Printing Materials:** silicone (water-based) or solvent-based coating

**Identify the Material that is Coated/Printed:** ☐ Metal ☐ Vinyl ☐ Plastics ☐ Wood ☐ Foil ☐ Paper ☑ Other Substrate

**Provide detailed description of material coated/printed:** rubber

**Provide approximate dimensions and range of sizes of parts being coated or printed:**

**Identify the Type of Operation:** ☑ Continuous ☐ Batch ☐ Other:

**Describe Surface Preparation/Pretreatment Steps:** N/A

**For Coating Operations:** ☑ Spray ☐ Flow ☐ Dip tank ☐ Electrodeposition ☐ Brush ☐ Powder ☐ Roller Coat ☐ Other:

**For Printing Operations:** *(Select all that apply)* ☐ Web ☐ Rotogravure ☐ Heatset ☐ Lithographic ☐ Other: ☐ Sheetfed ☐ Letterpress ☐ Non-heatset ☐ Flexographic

**Describe Final Product:** rubber automotive sealing products

## Check the category that most closely describes this unit:

☐ Large Appliance Coating
☐ Auto or Light-Duty Truck Coating
☐ Metal Furniture Coating
☐ Metal Coil Coating
☐ Beverage Can Coating
☐ Miscellaneious Metal Parts Coating
☐ Magnet Wire Insulation Coating
☐ Flat Wood Panel Coating
☐ Fabric, Vinyl, or Paper Coating
☐ Boat Manufacturing/ Ship Repair
☐ Pressure Sensitive Tape and Label Coating
☐ Magnet Tape Coating
☐ Publication Rotogravure Printing
☐ Coating of Plastic Parts for Business Machines
☐ Flexible Vinyl and Urethane Coating and Printing
☐ Graphic Arts using Rotogravure and Flexographic Printing
☑ Other: rubber

## Section K.2: Coating Operations

### K.2A: For Spray Coating

| Gun/Booth ID | Describe Function | Type | Mode | Maximum Design Application Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|---|---|
| **A4 Booth** | **spray coating** | ☐ Conventional Air Gun<br>☐ Airless ☑ HVLP<br>☐ Electrostatic ☐ LVLP<br>☐ Aerosol Spray Can ☐ Other | ☐ Manual<br>☑ Automatic | 3.925 | **lb/hr** | ☐ Testing<br>☐ Equipment Specification Sheet<br>☑ Estimation |
| | | ☐ Conventional Air Gun<br>☐ Airless ☐ HVLP<br>☐ Electrostatic ☐ LVLP<br>☐ Aerosol Spray Can ☐ Other | ☐ Manual<br>☐ Automatic | | | ☐ Testing<br>☐ Equipment Specification Sheet<br>☐ Estimation |
| | | ☐ Conventional Air Gun<br>☐ Airless ☐ HVLP<br>☐ Electrostatic ☐ LVLP<br>☐ Aerosol Spray Can ☐ Other | ☐ Manual<br>☐ Automatic | | | ☐ Testing<br>☐ Equipment Specification Sheet<br>☐ Estimation |

| | |
|---|---|
| **If spray guns are used simultaneously, describe:** | |

### K.2B: For Brush Coating

| | |
|---|---|
| **Describe Function:** | |
| **Maximum Coating Application Rate:** *(gal/hr)* | |

### K.2C: For Roller Coating

| Roller Coat ID | Describe Function | Maximum Coating Application Rate *(gal/hr)* | Describe how maximum rate was determined |
|---|---|---|---|
| | | | ☐ Testing ☐ Estimation<br>☐ Equipment Specification Sheet |
| | | | ☐ Testing ☐ Estimation<br>☐ Equipment Specification Sheet |
| | | | ☐ Testing ☐ Estimation<br>☐ Equipment Specification Sheet |

## K.2D: For Powder Coating

| Powder Coat ID | Describe Function | Maximum Coating Application Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |

| If powder coating material is recycled, describe: | |
|---|---|

## K.2E: For Flow Coating

| Flow Coat ID | Describe Function | Maximum Coating Application Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |

## K.2F: For Dip Tank/Electrodeposition Coating

| Tank ID | Describe Function | Maximum Make-up Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |

# Section K.3: Other Operations

## K.3A: For Finishing

**Describe Finishing Processes:**
*Complete Form DEP7007B as applicable*

## K.3B: For Curing/Drying

| Describe Curing/Drying Processes: | Description | Rated Capacity *(MMBtu/hr)* | Fuel | Control Device/Stack ID |
|---|---|---|---|---|
| natural gas fired drying oven | 3 oven sections at 0.75 MMBTU/hr each | 2.25 | natural gas | |
| | | | | |
| | | | | |
| | | | | |

## K.3C: For Purge

**Type:** Isopar

**Daily Usage:** 1 gal/day

## K.3D: For Clean-up

**Typ**☐ Manu☐ Automatic

**Daily Usage:** hrs/day

**Operating Hours:**

## K.3E: For Other Equipment

**Describe Processes:**

## Section K.4: Coatings/Printing Materials As Applied

Include SDS or Technical Sheets for all coating/printing materials used.

| Trade Name of Material | Description *(Identify as coating, ink, fountain solution, blanket wash, cleaning solvent, thinning solvent, auto wash, manual wash, etc.)* | Emission Unit/Coating ID where material is used | SCC Code | SCC Code Units | Density *(lb/gal)* | Solid Content *(lb/gal)* | VOC Content *(lb/gal)* | Emission Factor for PM* *(lb/SCC)* | Transfer Efficiency *(%)* | Emission Factor for VOC *(lb/SCC)* | Capture Efficiency *(%)* | Control Device/ Stack ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TGS06Y As-Applied | coating | A4 Booth | 40299998 | | 6.13 | 0.9 | 5.35 | | | | | |
| Above is worst-case, other coatings are utilized | | | | | | | | | | | | |
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**Emission factor for particulate matter (PM) should not include transfer efficiency.*

## Section K.5: Hazardous Air Pollutant-containing Coatings/Printing Materials

List each individual hazardous air pollutant (HAP) contained in each material.

| Trade Name of Material | HAP Name | HAP CAS # | Identify Solid (*S*) or Volatile (*V*) | HAP % by weight | HAP Emission Factor *(lb/SCC)* | Control Device/ Stack ID |
|---|---|---|---|---|---|---|
| TGS06Y As-Applied | Toluene | 108-88-3 | V | 35.38% | | |
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| Section K.6: Notes, Comments, and Explanations |
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# DEP7007K

## Surface Coating or Printing Operations

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

__ Section K.1: Process Information

__ Section K.2: Coating Operations

__ Section K.3: Other Operations

__ Section K.4: Coatings/Printing Materials as Applied

__ Section K.5: HAP-containing Coatings/Printing Materials

__ Section K.6: Notes, Comments, and Explanations

**Additional Documentation**

___ Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG.

___ Attach SDS or Technical Sheets for all Coating/Printing Materials

___ Attach a flow diagram

**Source Name:** **TG Automotive Sealing Kentucky, LLC**

**KY EIS (AFS) #:** **21- 047-00108**

**Permit #:** **F-19-042**

**Agency Interest (AI) ID:** **4417**

**Date:** **7/25/2024**

## Section K.1: Process Information

**Emission Unit #:** Emission Point 08

**Emission Unit Name:** Line # A8 Rubber Line

**Coating/Printing Line Name:** Line # A8 Rubber Line Coating (MP1)

**Proposed/Actual Date of Construction:** *(MM/YYYY)* 06/2002

**List Applicable Regulations:** 401 KAR 63:020

**Describe Overall Process:** spray application of coating to rubber parts

**Describe Coatings/Printing Materials:** silicone (water-based) coating

**Identify the Material that is Coated/Printed:** ☐ Metal ☐ Vinyl ☐ Plastics ☐ Wood ☐ Foil ☐ Paper ☑ Other Substrate

**Provide detailed description of material coated/printed:** rubber

**Provide approximate dimensions and range of sizes of parts being coated or printed:**

**Identify the Type of Operation:** ☑ Continuous ☐ Batch ☐ Other:

**Describe Surface Preparation/Pretreatment Steps:** N/A

**For Coating Operations:** ☑ Spray ☐ Flow ☐ Dip tank ☐ Electrodeposition ☐ Brush ☐ Powder ☐ Roller Coat ☐ Other:

**For Printing Operations:** *(Select all that apply)* ☐ Web ☐ Rotogravure ☐ Heatset ☐ Lithographic ☐ Sheetfed ☐ Letterpress ☐ Non-heatset ☐ Flexographic ☐ Other:

**Describe Final Product:** rubber automotive sealing products

## Check the category that most closely describes this unit:

☐ Large Appliance Coating
☐ Auto or Light-Duty Truck Coating
☐ Metal Furniture Coating
☐ Metal Coil Coating
☐ Beverage Can Coating
☐ Miscellaneious Metal Parts Coating
☐ Magnet Wire Insulation Coating
☐ Flat Wood Panel Coating
☐ Fabric, Vinyl, or Paper Coating
☐ Boat Manufacturing/ Ship Repair
☐ Pressure Sensitive Tape and Label Coating
☐ Magnet Tape Coating
☐ Publication Rotogravure Printing
☐ Coating of Plastic Parts for Business Machines
☐ Flexible Vinyl and Urethane Coating and Printing
☐ Graphic Arts using Rotogravure and Flexographic Printing
☑ Other: rubber

## Section K.2: Coating Operations

### K.2A: For Spray Coating

| Gun/Booth ID | Describe Function | Type | Mode | Maximum Design Application Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|---|---|
| A8 Booth | spray coating | ☐ Conventional Air Gun<br>☐ Airless ☑ HVLP<br>☐ Electrostatic ☐ LVLP<br>☐ Aerosol Spray Can ☐ Other | ☐ Manual<br>☑ Automatic | 8.17 | lb/hr | ☐ Testing<br>☐ Equipment Specification Sheet<br>☑ Estimation |
| | | ☐ Conventional Air Gun<br>☐ Airless ☐ HVLP<br>☐ Electrostatic ☐ LVLP<br>☐ Aerosol Spray Can ☐ Other | ☐ Manual<br>☐ Automatic | | | ☐ Testing<br>☐ Equipment Specification Sheet<br>☐ Estimation |
| | | ☐ Conventional Air Gun<br>☐ Airless ☐ HVLP<br>☐ Electrostatic ☐ LVLP<br>☐ Aerosol Spray Can ☐ Other | ☐ Manual<br>☐ Automatic | | | ☐ Testing<br>☐ Equipment Specification Sheet<br>☐ Estimation |

**If spray guns are used simultaneously, describe:**

### K.2B: For Brush Coating

**Describe Function:**

**Maximum Coating Application Rate:** *(gal/hr)*

### K.2C: For Roller Coating

| Roller Coat ID | Describe Function | Maximum Coating Application Rate *(gal/hr)* | Describe how maximum rate was determined |
|---|---|---|---|
| | | | ☐ Testing ☐ Estimation<br>☐ Equipment Specification Sheet |
| | | | ☐ Testing ☐ Estimation<br>☐ Equipment Specification Sheet |
| | | | ☐ Testing ☐ Estimation<br>☐ Equipment Specification Sheet |

## K.2D: For Powder Coating

| Powder Coat ID | Describe Function | Maximum Coating Application Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |

| If powder coating material is recycled, describe: | |
|---|---|

## K.2E: For Flow Coating

| Flow Coat ID | Describe Function | Maximum Coating Application Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |

## K.2F: For Dip Tank/Electrodeposition Coating

| Tank ID | Describe Function | Maximum Make-up Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |

## Section K.3: Other Operations

### K.3A: For Finishing

| **Describe Finishing Processes:** *Complete Form DEP7007B as applicable* | |
|---|---|

### K.3B: For Curing/Drying

| Describe Curing/Drying Processes: | Description | Rated Capacity *(MMBtu/hr)* | Fuel | Control Device/Stack ID |
|---|---|---|---|---|
| **A8 Coating Drying Oven** | | **0.75** | **natural gas** | |
| | | | | |
| | | | | |
| | | | | |

### K.3C: For Purge

**Type:** water

**Daily Usage:** 1 gal/day gal/day

### K.3D: For Clean-up

**Type:** ☑ Manual ☐ Automatic

**Daily Usage:** 1 gallon/week hrs/day

**Operating Hours:**

### K.3E: For Other Equipment

| **Describe Processes:** | |
|---|---|

## Section K.4: Coatings/Printing Materials As Applied

Include SDS or Technical Sheets for all coating/printing materials used.

| Trade Name of Material | Description *(Identify as coating, ink, fountain solution, blanket wash, cleaning solvent, thinning solvent, auto wash, manual wash, etc.)* | Emission Unit/Coating ID where material is used | SCC Code | SCC Code Units | Density *(lb/gal)* | Solid Content *(lb/gal)* | VOC Content *(lb/gal)* | Emission Factor for PM* *(lb/SCC)* | Transfer Efficiency *(%)* | Emission Factor for VOC *(lb/SCC)* | Capture Efficiency *(%)* | Control Device/ Stack ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silicone Coating | water-based coating | A8 Booth | 40299998 | | 8.36 | | 0.9 | | | | | |
| Above is an example, other coatings are utilized | | | | | | | | | | | | |
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**Emission factor for particulate matter (PM) should not include transfer efficiency.*

## Section K.5: Hazardous Air Pollutant-containing Coatings/Printing Materials

List each individual hazardous air pollutant (HAP) contained in each material.

| Trade Name of Material | HAP Name | HAP CAS # | Identify Solid (*S*) or Volatile (*V*) | HAP % by weight | HAP Emission Factor *(lb/SCC)* | Control Device/ Stack ID |
|---|---|---|---|---|---|---|
| Silicone Coating (example) | Ethylene Glycol | 107-21-1 | V | 0.40% | | |
| | Glycol Ethers | | V | 5.60% | | |
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| Section K.6: Notes, Comments, and Explanations |
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# DEP7007K

## Surface Coating or Printing Operations

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

__ Section K.1: Process Information

__ Section K.2: Coating Operations

__ Section K.3: Other Operations

__ Section K.4: Coatings/Printing Materials as Applied

__ Section K.5: HAP-containing Coatings/Printing Materials

__ Section K.6: Notes, Comments, and Explanations

**Additional Documentation**

___ Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG.

___ Attach SDS or Technical Sheets for all Coating/Printing Materials

___ Attach a flow diagram

**Source Name:** **TG Automotive Sealing Kentucky, LLC**

**KY EIS (AFS) #:** **21- 047-00108**

**Permit #:** **F-19-042**

**Agency Interest (AI) ID:** **4417**

**Date:** **7/25/2024**

## Section K.1: Process Information

**Emission Unit #:** Emission Point 16

**Emission Unit Name:** Ransburg Coater Off-Line

**Coating/Printing Line Name:** Ransburg Coater

**Proposed/Actual Date of Construction:** *(MM/YYYY)* 12/2010

**List Applicable Regulations:**

401 KAR 63:020

**Describe Overall Process:**

spray application of coating to rubber parts

**Describe Coatings/Printing Materials:**

silicone (water-based) coating

**Identify the Material that is Coated/Printed:** ☐ Metal ☐ Vinyl ☐ Plastics ☐ Wood ☐ Foil ☐ Paper ☑ Other Substrate

**Provide detailed description of material coated/printed:** rubber

**Provide approximate dimensions and range of sizes of parts being coated or printed:**

**Identify the Type of Operation:** ☐ Continuous ☑ Batch ☐ Other:

**Describe Surface Preparation/Pretreatment Steps:** N/A

**For Coating Operations:** ☑ Spray ☐ Flow ☐ Dip tank ☐ Electrodeposition ☐ Brush ☐ Powder ☐ Roller Coat ☐ Other:

**For Printing Operations:** *(Select all that apply)* ☐ Web ☐ Rotogravure ☐ Heatset ☐ Lithographic ☐ Other: ☐ Sheetfed ☐ Letterpress ☐ Non-heatset ☐ Flexographic

**Describe Final Product:** rubber automotive sealing products

## Check the category that most closely describes this unit:

☐ Large Appliance Coating
☐ Auto or Light-Duty Truck Coating
☐ Metal Furniture Coating
☐ Metal Coil Coating
☐ Beverage Can Coating
☐ Miscellaneious Metal Parts Coating
☐ Magnet Wire Insulation Coating
☐ Flat Wood Panel Coating
☐ Fabric, Vinyl, or Paper Coating
☐ Boat Manufacturing/ Ship Repair
☐ Pressure Sensitive Tape and Label Coating
☐ Magnet Tape Coating
☐ Publication Rotogravure Printing
☐ Coating of Plastic Parts for Business Machines
☐ Flexible Vinyl and Urethane Coating and Printing
☐ Graphic Arts using Rotogravure and Flexographic Printing
☑ Other: rubber

# Section K.2: Coating Operations

## K.2A: For Spray Coating

| Gun/Booth ID | Describe Function | Type | Mode | Maximum Design Application Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|---|---|
| **Ransburg** | **spray coating** | ☐ Conventional Air Gun<br>☐ Airless ☑ HVLP<br>☐ Electrostatic ☐ LVLP<br>☐ Aerosol Spray Can ☐ Other | ☑ Manual<br>☐ Automatic | 11.91 | **lb/hr** | ☐ Testing<br>☐ Equipment Specification Sheet<br>☑ Estimation |
| | | ☐ Conventional Air Gun<br>☐ Airless ☐ HVLP<br>☐ Electrostatic ☐ LVLP<br>☐ Aerosol Spray Can ☐ Other | ☐ Manual<br>☐ Automatic | | | ☐ Testing<br>☐ Equipment Specification Sheet<br>☐ Estimation |
| | | ☐ Conventional Air Gun<br>☐ Airless ☐ HVLP<br>☐ Electrostatic ☐ LVLP<br>☐ Aerosol Spray Can ☐ Other | ☐ Manual<br>☐ Automatic | | | ☐ Testing<br>☐ Equipment Specification Sheet<br>☐ Estimation |

| | |
|---|---|
| **If spray guns are used simultaneously, describe:** | |

## K.2B: For Brush Coating

| | |
|---|---|
| **Describe Function:** | |
| **Maximum Coating Application Rate:** *(gal/hr)* | |

## K.2C: For Roller Coating

| Roller Coat ID | Describe Function | Maximum Coating Application Rate *(gal/hr)* | Describe how maximum rate was determined |
|---|---|---|---|
| | | | ☐ Testing ☐ Estimation<br>☐ Equipment Specification Sheet |
| | | | ☐ Testing ☐ Estimation<br>☐ Equipment Specification Sheet |
| | | | ☐ Testing ☐ Estimation<br>☐ Equipment Specification Sheet |

## K.2D: For Powder Coating

| Powder Coat ID | Describe Function | Maximum Coating Application Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |

| If powder coating material is recycled, describe: | |
|---|---|

## K.2E: For Flow Coating

| Flow Coat ID | Describe Function | Maximum Coating Application Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |

## K.2F: For Dip Tank/Electrodeposition Coating

| Tank ID | Describe Function | Maximum Make-up Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |

## Section K.3: Other Operations

### K.3A: For Finishing

| **Describe Finishing Processes:** *Complete Form DEP7007B as applicable* | |
|---|---|

### K.3B: For Curing/Drying

| Describe Curing/Drying Processes: | Description | Rated Capacity *(MMBtu/hr)* | Fuel | Control Device/Stack ID |
|---|---|---|---|---|
| **Ransburg Drying Oven** | | **0.75** | **natural gas** | |
| | | | | |
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### K.3C: For Purge

**Type:** water

**Daily Usage:** 1 gal/day gal/day

### K.3D: For Clean-up

**Type:** ☑ Manual ☐ Automatic

**Daily Usage:** 1 gallon/week hrs/day

**Operating Hours:**

### K.3E: For Other Equipment

| **Describe Processes:** | |
|---|---|

## Section K.4: Coatings/Printing Materials As Applied

Include SDS or Technical Sheets for all coating/printing materials used.

| Trade Name of Material | Description *(Identify as coating, ink, fountain solution, blanket wash, cleaning solvent, thinning solvent, auto wash, manual wash, etc.)* | Emission Unit/Coating ID where material is used | SCC Code | SCC Code Units | Density *(lb/gal)* | Solid Content *(lb/gal)* | VOC Content *(lb/gal)* | Emission Factor for PM* *(lb/SCC)* | Transfer Efficiency *(%)* | Emission Factor for VOC *(lb/SCC)* | Capture Efficiency *(%)* | Control Device/ Stack ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silicone Coating | water-based coating | Ransburg | 40299998 | | 8.36 | | 0.9 | | | | | |
| Above is an example, other coatings are utilized | | | | | | | | | | | | |
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**Emission factor for particulate matter (PM) should not include transfer efficiency.*

## Section K.5: Hazardous Air Pollutant-containing Coatings/Printing Materials

List each individual hazardous air pollutant (HAP) contained in each material.

| Trade Name of Material | HAP Name | HAP CAS # | Identify Solid (*S*) or Volatile (*V*) | HAP % by weight | HAP Emission Factor *(lb/SCC)* | Control Device/ Stack ID |
|---|---|---|---|---|---|---|
| Silicone Coating (example) | Ethylene Glycol | 107-21-1 | V | 0.40% | | |
| | Glycol Ethers | | V | 5.60% | | |
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| Section K.6: Notes, Comments, and Explanations |
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Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

# DEP7007B

## Manufacturing or Processing Operations

___ Section B.1: Process Information
___ Section B.2: Materials and Fuel Information
___ Section B.3: Notes, Comments, and Explanations

**Additional Documentation**

___ Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG.
___ Attach a flow diagram
___ Attach SDS

**Source Name:** **TG Automotive Sealing Kentucky, LLC**
**KY EIS (AFS) #:** **21- 047-00108**
**Permit #:** **F-19-042**
**Agency Interest (AI) ID:** **4417**
**Date:** **7/25/2024**

## Section B.1: Process Information

| Emission Unit # | Emission Unit Name | Describe Emission Unit | Process ID | Process Name | Manufacturer | Model No. | Proposed/Actual Date of Construction Commencement *(MM/YYYY)* | Is the Process Continuous or Batch? | Number of Batches per 24 Hours *(if applicable)* | Hours per Batch *(if applicable)* |
|---|---|---|---|---|---|---|---|---|---|---|
| 04 | Extrusion/ Curing A4 | rubber curing | MP2 | | | | 01/05 & 06/02 | continuous | | |
| 08 | Extrusion/ Curing A8 | rubber curing | MP2 | | | | 07/05 & 06/02 | continuous | | |
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## Section B.2: Materials and Fuel Information

**Maximum yearly fuel usage rate only applies if applicant request operating restrictions through federally enforceable limitations.*

| Emission Unit # | Emission Unit Name | Name of Raw Materials Input | Maximum Quantity of Each Raw Material Input | | Total Process Weight Rate for Emission Unit *(tons/hr)* | Name of Finished Materials | Maximum Quantity of Each Finished Material Output | | Fuel Type | Maximum Hourly Fuel Usage Rate | | Maximum Yearly Fuel Usage Rate | | Sulfur Content *(%)* | Ash Content *(%)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *(Specify Units/hr)* | | | | *(Specify Units/hr)* | | | *(Specify Units)* | | *(Specify Units)* | | |
| 04 | Extrusion/ Curing A4 | rubber | 876 | lb/hr | | rubber | 876 | rubber sealing product | natural gas | 3 x 0.75 | MMBTU/hr | | | | |
| 08 | Extrusion/ Curing A8 | rubber | 876 | lb/hr | | rubber | 876 | rubber sealing product | natural gas | 0.198 | MMBTU/hr | | | | |
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## Section B.3: Notes, Comments, and Explanations

Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

# DEP7007EE

## Internal Combustion Engines

___ Section EE.1: General Information
___ Section EE.2: Operating Information
___ Section EE.3: Design Information
___ Section EE.4: Fuel Information
___ Section EE.5: Emission Factor Information
___ Section EE.6: Notes, Comments, and Explanations

**Additional Documentation**

___ Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG

___ Attach EPA certification of the engine

**Source Name:** TG Automotive Sealing Kentucky, LLC
**KY EIS (AFS) #:** 21- 047-00108
**Permit #:** F-19-042
**Agency Interest (AI) ID:** 4417
**Date:** 7/25/2024

## Section EE.1: General Information

| Emission Unit # | Emission Unit Name | Control Device ID | Stack ID | Manufacturer | Model Number | Model Year | Date of Manufacture | Proposed/Actual Date of Construction Commencement *(MM/YYYY)* | Date Reconstructed/ Modified | List Applicable Regulations |
|---|---|---|---|---|---|---|---|---|---|---|
| | Generator 1 | | | Generac | 0058871 | 2009 | | 09/2013 | | Part 63, ZZZZ Part 60, JJJJ |
| | Generator 2 | | | Generac | 0058871 | 2009 | | 09/2013 | | Part 63, ZZZZ Part 60, JJJJ |
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## Section EE.2: Operating Information

| Emission Unit # | Engine Purpose (Identify if Non-Emergency, Emergency,Fire/Water Pump, Black-start engine for combustion turbine, Engine Testing) | Hours Operated | Is this engine a rental? *(Yes/No)* | Rental Time Period *(hrs)* | Alternate Operating Scenarios (Describe any operating scenarios in which the engine may be used in a different configuration) |
|---|---|---|---|---|---|
| Generator 1 | Emergency | | no | | |
| Generator 2 | Emergency | | no | | |
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## Section EE.3: Design Information

| Emission Unit # | Engine Type (Identify all that apply: Commercial, Institutional, Stationary, Non-Road) | Ignition Type (Identify if either Compression or Spark Ignition) | Engine Family (Identify all that apply: 2-stroke, 4-stroke, Rich Burn, Lean Burn) | Maximum Engine Power *(bhp)* | Maximum Engine Speed *(rpm)* | Total Displacement *(L)* | Number of Cylinders |
|---|---|---|---|---|---|---|---|
| Generator 1 | Emergency Stationary | spark | | 27 | | | |
| Generator 2 | Emergency Stationary | spark | | 27 | | | |
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## Section EE.4: Fuel Information

| Emission Unit # | Identify if Primary, Secondary, or Tertiary Fuel | Fuel Type (Identify if Diesel, Gasoline, Natural Gas, Liquefied Petroleum Gas (LPG), Landfill/Digester Gas, or Other) | Fuel Grade | Percent Time Used *(%)* | Maximum Fuel Consumption | Heat Content | Sulfur Content *(%)* | SCC Code | SCC Units |
|---|---|---|---|---|---|---|---|---|---|
| Generator 1 | primary | natural gas | | 100 | | | | | |
| Generator 2 | primary | natural gas | | 100 | | | | | |
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## Section EE.5: Emission Factor Information

Emission factors expressed here are based on the potential to emit.

| Emission Unit # | Fuel | Pollutant | Emission Factor | Emission Factor Units | Source of Emission Factor |
|---|---|---|---|---|---|
| | | | AP-42 | | |
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## Section EE.6: Notes, Comments, and Explanations

## U.S. EPA EMISSION CONTROL WARRANTY STATEMENT
## YOUR WARRANTY RIGHTS AND OBLIGATIONS

The United States Environmental Protection Agency (EPA) and Generac Power Systems, Inc. (Generac) are pleased to explain the Emission Control System Warranty (ECS Warranty) on your new 2011 and later equipment. New equipment that use small spark-ignited engines must be designed, built, and equipped to meet stringent anti-smog standards for the federal government. Generac will warrant the emission control system on your equipment for the period of time listed below provided there has been no abuse, neglect, unapproved modification or improper maintenance of your equipment. The emission control system on this equipment includes all components whose failure would increase the emissions of any regulated pollutant. These components are listed in the Emissions Information section of this manual.

## MANUFACTURER'S WARRANTY COVERAGE:

This ECS Warranty is valid for two years, or for the same period as specified in the Generac Limited Warranty, whichever is longer. For equipment with hour meters, the warranty period is a number of hours equal to half the Useful Life to which the equipment is certified, or the warranty period specified above in years, whichever is less. The Useful Life can be found on the Emission Control Label on the engine. If, during such warranty period, any emission-related part on your equipment is found to be defective in materials or workmanship, repairs or replacement will be performed by a Generac Authorized Warranty Service Dealer.

## OWNER'S WARRANTY RESPONSIBILITIES:

As the equipment owner, you are responsible for the completion of all required maintenance as listed in your factory supplied Owner's Manual. For warranty purposes, Generac recommends that you retain all receipts covering maintenance on your generator, but Generac cannot deny warranty solely due to the lack of receipts. These responsibilities and the coverage provided by this warranty apply to all subsequent purchasers/owners of the engine.

You should be aware that Generac may deny any and/or all warranty coverage or responsibility if your equipment, or a part/component thereof, has failed due to abuse, neglect, improper maintenance, or unapproved modifications.

**You are responsible for contacting a Generac Authorized Warranty Dealer as soon as a problem occurs. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.**

Warranty service can be arranged by contacting either your selling dealer or a Generac Authorized Warranty Service Dealer. To locate the Generac Authorized Warranty Service Dealer nearest you, call our toll free number below, or email emissions@generac.com.

**1-800-333-1322**

**IMPORTANT NOTE:** This warranty statement explains your rights and obligations under the Emission Control System Warranty, which is provided to you by Generac pursuant to federal law. See also the "Generac Limited Warranties for Generac Power Systems, Inc.," which is enclosed herewith on a separate sheet, also provided to you by Generac. Note that this warranty shall not apply to any incidental, consequential or indirect damages caused by defects in materials or workmanship or any delay in repair or replacement of the defective part(s). This warranty is in place of all other warranties, expressed or implied. Specifically, Generac makes no other warranties as to the merchantability or fitness for a particular purpose. Any implied warranties which are allowed by law, shall be limited in duration to the terms of the express warranty provided herein. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

The ECS Warranty applies only to the emission control system of your new equipment. Both the ECS Warranty and the Generac Warranty describe important rights and obligations with respect to your new engine.

Warranty service can be performed only by a Generac Authorized Warranty Service Facility. When requesting warranty service, evidence must be presented showing the date of the sale to the original purchaser/owner.

If you have any questions regarding your warranty rights and responsibilities, you should contact Generac at the following address:

**ATTENTION WARRANTY DEPARTMENT**
**GENERAC POWER SYSTEMS, INC.**
**P.O. BOX 8 • WAUKESHA, WI 53187**



Part No. 0J3335 Rev. D 10/15

## EMISSION CONTROL SYSTEM WARRANTY

Emission Control System Warranty (ECS Warranty) for equipment using small spark-ignited engines:

(a) Applicability: This warranty shall apply to equipment that uses small off-road engines. The ECS Warranty period shall begin on the date the new equipment is purchased by/delivered to its original, end-use purchaser/owner and shall continue for the lesser of:
  (1) The period of time specified in the Generac Limited Warranty enclosed herewith, but not less than 24 months, or
  (2) For engines equipped with hour meters, a number of operating hours equal to half of the engine's useful life. The useful life is specified on the Emissions Control Label on the engine.

(b) General Emissions Warranty Coverage: Generac warrants to the original, end-use purchaser/owner of the new engine or equipment and to each subsequent purchaser/owner that the ECS when installed was:
  (1) Designed, built and equipped so as to conform with all applicable regulations; and
  (2) Free from defects in materials and workmanship which cause the failure of a warranted part at any time during the ECS Warranty Period.

(c) The warranty on emissions-related parts will be interpreted as follows:
  (1) Any warranted part that is not scheduled for replacement as required maintenance in the Owner's Manual shall be warranted for the ECS Warranty Period. If any such part fails during the ECS Warranty Period, it shall be repaired or replaced by Generac according to Subsection (4) below. Any such part repaired or replaced under the ECS Warranty shall be warranted for the remainder of the ECS Warranty Period.
  (2) Any warranted part that is scheduled only for regular inspection as specified in the Owner's Manual shall be warranted for the ECS Warranty Period. A statement in the Owner's Manual to the effect of "repair or replace as necessary" shall not reduce the ECS Warranty Period. Any such part repaired or replaced under the ECS Warranty shall be warranted for the remainder of the ECS Warranty Period.
  (3) Any warranted part that is scheduled for replacement as required maintenance in the Owner's Manual shall be warranted for the period of time prior to first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part shall be repaired or replaced by Generac according to Subsection (4) below. Any such emissions-related part repaired or replaced under the ECS warranty shall be warranted for the remainder of the period prior to the first scheduled replacement point for that part.
  (4) Repair or replacement of any warranted, emissions-related part under this ECS Warranty shall be performed at no charge to the owner at a Generac Authorized Warranty Service Facility.
  (5) Notwithstanding the provisions of subsection (4) above, warranty services or repairs must be provided at Generac Authorized Service Facilities.
  (6) When the engine is inspected by a Generac Authorized Warranty Service Facility, the purchaser/owner shall not be held responsible for diagnostic costs if the repair is deemed warrantable.
  (7) Throughout the ECS Warranty Period, Generac shall maintain a supply of warranted emission-related parts sufficient to meet the expected demand for such parts.
  (8) Any Generac authorized and approved emission-related replacement parts may be used in the performance of any ECS Warranty maintenance or repairs and will be provided without charge to the purchaser/owner. Such use shall not reduce Generac's ECS Warranty obligations.
  (9) No modifications, other than those explicitly approved by Generac, may be made to the generator. Unapproved modifications void this ECS Warranty and shall be sufficient ground for disallowing an ECS Warranty claim.
  (10) Generac shall not be held liable hereunder for failures of any non-authorized replacement parts, or failures of any authorized parts caused by the use of non-authorized replacement parts.

## EMISSION RELATED PARTS MAY INCLUDE THE FOLLOWING (IF EQUIPPED):

1) FUEL METERING SYSTEM
   A. CARBURETOR AND INTERNAL PARTS
   B. FUEL TANK/CAP
   C. FUEL LINES
   D. EVAPORATIVE VENT LINES
   E. REGULATOR (GASEOUS FUELS)
2) AIR INDUCTION SYSTEM
   A. INTAKE MANIFOLD
   B. AIR FILTER
3) IGNITION SYSTEM
   A. SPARK PLUGS
   B. IGNITION COILS/MODULE
4) AIR INJECTION SYSTEM
   A. PULSE AIR VALVE
5) EXHAUST SYSTEM
   A. CATALYST
   B. EXHAUST MANIFOLD



Part No. 0J3335 Rev. D 10/15

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

# DEP7007V

## Applicable Requirements and Compliance Activities

___ Section V.1: Emission and Operating Limitation(s)

___ Section V.2: Monitoring Requirements

___ Section V.3: Recordkeeping Requirements

___ Section V.4: Reporting Requirements

___ Section V.5: Testing Requirements

___ Section V.6: Notes, Comments, and Explanations

**Additional Documentation**

___ Complete DEP7007AI

**Source Name:** **TG Automotive Sealing Kentucky, LLC**

**KY EIS (AFS) #:** **21-047-00108**

**Permit #:** **F-19-042**

**Agency Interest (AI) ID:** **4417**

**Date:** **7/25/2024**

## Section V.1: Emission and Operating Limitation(s)

| Emission Unit # | Emission Unit Description | Applicable Regulation or Requirement | Pollutant | Emission Limit (if applicable) | Voluntary Emission Limit or Exemption (if applicable) | Operating Requirement or Limitation (if applicable) | Method of Determining Compliance with the Emission and Operating Requirement(s) |
|---|---|---|---|---|---|---|---|
| 04, 08, 16 | Lines A4, A8, Ransburg | 401 KAR 59:010 | opacity | 20% | | | review of records |
| 04, 08, 16 | Lines A4, A8, Ransburg | 401 KAR 63:020 | HAP | | | | review of records |
| | Emergency Generators (2 x 27 hp) | Part 63, ZZZZ Part 60, JJJJ | | | | | review of records |
| | | | | | | | |
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## Section V.2: Monitoring Requirements

| Emission Unit # | Emission Unit Description | Pollutant | Applicable Regulation or Requirement | Parameter Monitored | Description of Monitoring |
|---|---|---|---|---|---|
| 04, 08, 16 | Lines A4, A8, Ransburg | opacity | 401 KAR 59:010 | opacity | visible emission observation weekly |
| 04, 08, 16 | Lines A4, A8, Ransburg | HAP | 401 KAR 63:020 | emissions | record of VOC and HAP emissions monthly |
| | Emergency Generators | | Part 63, ZZZZ<br>Part 60, JJJJ | hours, maintenance | Record of hours of operation and maintenance |
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## Section V.3: Recordkeeping Requirements

| Emission Unit # | Emission Unit Description | Pollutant | Applicable Regulation or Requirement | Parameter Recorded | Description of Recordkeeping |
|---|---|---|---|---|---|
| 04, 08, 16 | Lines A4, A8, Ransburg | opacity | 401 KAR 59:010 | visible emissions notation | weekly, kept five years |
| 04, 08, 16 | Lines A4, A8, Ransburg | HAP | 401 KAR 63:020 | usage of materials, HAP & VOC content, emissions | monthly, kept five years |
| | Emergency Generators | | Part 63, ZZZZ<br>Part 60, JJJJ | hours operated, maintenance | annual, kept five years |
| | | | | | |
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## Section V.4: Reporting Requirements

| Emission Unit # | Emission Unit Description | Pollutant | Applicable Regulation or Requirement | Parameter Reported | Description of Reporting |
|---|---|---|---|---|---|
| all | all | | all | semi-annual | semi-annual monitoring report |
| | | | | | |
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## Section V.5: Testing Requirements

| Emission Unit # | Emission Unit Description | Pollutant | Applicable Regulation or Requirement | Parameter Tested | Description of Testing |
|---|---|---|---|---|---|
| all | all | | all | | testing upon request by agency only |
| | | | | | |
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| Section V.6: Notes, Comments, and Explanations |
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## SECTION 4.0

## DEP7007DD – INSIGNIFICANT ACTIVITIES

Division for Air Quality
300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

# DEP7007DD

## Insignificant Activities

___ Section DD.1: Table of Insignificant Activities
___ Section DD.2: Signature Block
___ Section DD.3: Notes, Comments, and Explanations

**Source Name:** **TG Automotive Sealing Kentucky, LLC**

**KY EIS (AFS) #:** **21- 047-00108**

**Permit #:** **F-19-042**

**Agency Interest (AI) ID:** **4417**

**Date:** **7/25/2024**

## Section DD.1: Table of Insignificant Activities

*Identify each activity with a unique Insignificant Activity number (IA #); for example: 1, 2, 3… etc.

| Insignificant Activity # | Description of Activity including Rated Capacity | Serial Number or Other Unique Identifier | Applicable Regulation(s) | Calculated Emissions |
|---|---|---|---|---|
| 1 | Space Heaters (11 @ 0.2 MMBTU/hr ea) | | None | see attached |
| 2 | Air Make Up Units (6 @ 6.61 MMBTU/hr ea) | | None | see attached |
| 3 | Office AMU (1 @ 0.08 MMBTU/hr) | | None | see attached |
| 4 | AMU 2, 3, 4 (3 @ 1.282 MMBTU/hr ea) | | None | see attached |
| 5 | AMU 5, 6 (2 @ 1.798 MMBTU/hr ea) | | None | see attached |

| Insignificant Activity # | Description of Activity including Rated Capacity | Serial Number or Other Unique Identifier | Applicable Regulation(s) | Calculated Emissions |
|---|---|---|---|---|
| 6 | AMU 7 (1 @ 3.44 MMBTU/hr) | | None | see attached |
| ~~7~~ | Prior #7 was Purge & Manual Clean-up Operations | This is no longer listed because the purge & cleanup are assigned each to the operation they belong or to Finishing Operations | NA | NA |
| 7 | Finishing Operations (0.66 lb/hr) | | 401 KAR 63:020 | see attached |
| 8 | Flock Adhesive Off-Line (0.13 lb/hr) | | 401 KAR 63:020 | see attached |
| | | | | |
| | | | | |

## Section DD.2: Signature Block

I, THE UNDERSIGNED, HEREBY CERTIFY UNDER PENALTY OF LAW, THAT I AM A RESPONSIBLE OFFICIAL, AND THAT I HAVE PERSONALLY EXAMINED, AND AM FAMILIAR WITH, THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ITS ATTACHMENTS. BASED ON MY INQUIRY OF THOSE INDIVIDUALS WITH PRIMARY RESPONSIBILITY FOR OBTAINING THE INFORMATION, I CERTIFY THAT THE INFORMATION IS ON KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE OR INCOMPLETE INFORMATION, INCLUDING THE POSSIBILITY OF FINE OR IMPRISONMENT.

| | Jackie R Cantrell | 07/29/2024 |
|---|---|---|
| | **Authorized Signature** | **Date** |
| **By:** | Jackie R Cantrell | EHS Manager |
| | **Type/Print Name of Siguatory** | **Title of Siguatory** |

## Section DD.3: Notes, Comments, and Explanations

**SECTION 5.0**

# DEP7007N – SOURCE EMISSIONS PROFILE
# EMISSION CALCULATIONS & FACILITY SUMMARY

Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

# DEP7007N

## Source Emissions Profile

__ Section N.1: Emission Summary
__ Section N.2: Stack Information
__ Section N.3: Fugitive Information
__ Section N.4: Notes, Comments, and Explanations

| Additional Documentation |
|---|
| ___ Complete DEP7007AI |

**Source Name:** TG Automotive Sealing Kentucky, LLC

**KY EIS (AFS) #:** 21- 047-00108

**Permit #:** F-19-042

**Agency Interest (AI) ID:** 4417

**Date:** 7/25/2024

## N.1: Emission Summary

| Emission Unit # | Emission Unit Name | Process ID | Process Name | Control Device Name | Control Device ID | Stack ID | Maximum Design Capacity *(SCC Units/hour)* | Pollutant | Uncontrolled Emission Factor *(lb/SCC Units)* | Emission Factor Source (e.g. AP-42, Stack Test, Mass Balance) | Capture Efficiency *(%)* | Control Efficiency *(%)* | Hourly Emissions | | Annual Emissions | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Uncontrolled Potential *(lb/hr)* | Controlled Potential *(lb/hr)* | Uncontrolled Potential *(tons/yr)* | Controlled Potential *(tons/yr)* |
| 04 | Lne A4 | MP2 | Rubber Curing | | | EP4-1 | see | attached | for all | emissions info | | | | | | |
| 04 | Lne A4 | MP3 | Rubber Extrusion | | | Fugitive | see | attached | for all | emissions info | | | | | | |
| 04 | Lne A4 | MP4 | Coating | dry filter | | EP4-2 | see | attached | for all | emissions info | | | | | | |
| 04 | Lne A4 | MP5 | Coating Curing | | | EP4-2 | see | attached | for all | emissions info | | | | | | |
| 08 | Lne A8 | MP1 | Coating | dry filter | | EP8 | see | attached | for all | emissions info | | | | | | |
| 08 | Lne A8 | MP2 | Rubber Curing | | | EP8 | see | attached | for all | emissions info | | | | | | |
| 08 | Lne A8 | MP3 | Ruber Extrusion | | | EP8 | see | attached | for all | emissions info | | | | | | |
| 16 | Ransburg | MP1 | Coating | dry filter | | EP16 | see | attached | for all | emissions info | | | | | | |
| 16 | Ransburg | MP2 | Coating Curing | | | EP16 | see | attached | for all | emissions info | | | | | | |

## Section N.2: Stack Information

### UTM Zone:

| Stack ID | Identify all Emission Units (with Process ID) and Control Devices that Feed to Stack | Stack Physical Data | | | Stack UTM Coordinates | | Stack Gas Stream Data | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Equivalent Diameter *(ft)* | Height *(ft)* | Base Elevation *(ft)* | Northing *(m)* | Easting *(m)* | Flowrate *(acfm)* | Temperature *(° F)* | Exit Velocity *(ft/sec)* |
| EP4-1 | A4 Rubber Curing | 1.62 | 40 | 623 | | | 4160 | 300 | |
| EP4-2 | A4 Coating and Drying | 2 | 33 | 623 | | | 5000 | 72 | |
| EP8 | A8 | 1.62 | 40 | 623 | | | 4160 | 300 | |
| EP16 | Ransburg | 1.62 | 40 | 623 | | | 4160 | 300 | |
| | | | | | | | | | |
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## Section N.3: Fugitive Information

**UTM Zone:**

| Emission Unit # | Emission Unit Name | Process ID | Area Physical Data | | Area UTM Coordinates | | Area Release Data | |
|---|---|---|---|---|---|---|---|---|
| | | | Length of the X Side *(ft)* | Length of the Y Side *(ft)* | Northing *(m)* | Easting *(m)* | Release Temperature *(°F)* | Release Height *(ft)* |
| | | | | | | | | |
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| Section N.4: Notes, Comments, and Explanations |
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**TGASK**
**FACILITY-WIDE POTENTIAL TO EMIT**
**Updated as of July 2024 for Renewal Application**

**Potential to Emit without limitations**

| Process | KYDEP Permit Status | VOC | PM | NOx | CO | SOx | Total HAP | Single HAP (not all listed, just examples of highest) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Carbon Disulfide | Toluene | Glycol Ethers |
| | | TPY | TPY | TPY | TPY | TPY | TPY | TPY | TPY | TPY |
| A4 EXTRUSION | Emission Point 04, MP3 | 0.15 | 0.00 | - | - | - | 0.11 | 0.06 | 0.00 | |
| A4 RUBBER CURING | Emission Point 04, MP2 | 3.17 | - | - | - | - | 3.74 | 2.47 | 0.02 | |
| A4 ON-LINE COATING | Emission Point 04, MP4 | 16.14 | - | - | - | - | 6.08 | | 6.08 | |
| A8 EXTRUSION | Emission Point 08, MP3 | 0.15 | 0.00 | - | - | - | 0.11 | 0.06 | 0.00 | |
| A8 RUBBER CURING | Emission Point 08, MP2 | 3.17 | - | - | - | - | 3.74 | 2.47 | 0.02 | |
| A8 ON-LINE COATING | Emission Point 08, MP1 | 3.84 | - | - | - | - | 0.53 | | | 0.30 |
| OFF-LINE COATING RANSBURG | Emission Point 16, Off-Line Coating | 5.05 | - | - | - | - | 2.85 | | | 2.65 |
| **Insignificant and Trivial Operations** | | | | | | | | | | |
| NG Combustion Units | insignificant | 1.39 | 1.92 | 25.30 | 21.25 | 0.15 | - | | | - |
| NG Emergency Generators | insignificant | 0.000 | 0.000 | 0.003 | 0.002 | 0.000 | - | | | - |
| Finishing Operations | insignificant | 2.096 | - | - | - | - | 1.32 | | 0.67 | |
| Flock Adhesive Off-line Application | insignificant | 0.315 | - | - | - | - | 0.25 | | 0.07 | |
| A9 TPO Extrusion | Trivial - no known emissions | - | - | - | - | - | - | - | - | - |
| **Totals** | | **35.47** | **1.92** | **25.31** | **21.26** | **0.15** | **18.74** | **5.05** | **6.86** | **2.95** |

## TGASK

### Potential to Emit - Natural Gas Units

Fuel Type: Natural Gas
Heat Content: 1000 BTU/ft3
Maximum Operating Schedule: 8760 hrs/yr

| | | | NOx | | CO | | SOx | | PM | | VOC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Rating** | | Emission Factor | | Emission Factor | | Emission Factor | | Emission Factor | | Emission Factor | |
| **Ovens** | **MMBTU/hr** | **MMCF/hr** | 100 | lb/MMCF | 84 | lb/MMCF | 0.6 | lb/MMCF | 7.6 | lb/MMCF | 5.5 | lb/MMCF |
| | | | lb/hr | TPY | lb/hr | TPY | lb/hr | TPY | lb/hr | TPY | lb/hr | TPY |
| Space Heating #1 | 0.200 | 0.0002 | 0.020 | 0.088 | 0.017 | 0.074 | 0.000 | 0.001 | 0.002 | 0.007 | 0.001 | 0.005 |
| Space Heating #2 | 0.200 | 0.0002 | 0.020 | 0.088 | 0.017 | 0.074 | 0.000 | 0.001 | 0.002 | 0.007 | 0.001 | 0.005 |
| Space Heating #3 | 0.200 | 0.0002 | 0.020 | 0.088 | 0.017 | 0.074 | 0.000 | 0.001 | 0.002 | 0.007 | 0.001 | 0.005 |
| Space Heating #4 | 0.200 | 0.0002 | 0.020 | 0.088 | 0.017 | 0.074 | 0.000 | 0.001 | 0.002 | 0.007 | 0.001 | 0.005 |
| Space Heating #5 | 0.200 | 0.0002 | 0.020 | 0.088 | 0.017 | 0.074 | 0.000 | 0.001 | 0.002 | 0.007 | 0.001 | 0.005 |
| Space Heating #6 | 0.200 | 0.0002 | 0.020 | 0.088 | 0.017 | 0.074 | 0.000 | 0.001 | 0.002 | 0.007 | 0.001 | 0.005 |
| Space Heating #7 | 0.200 | 0.0002 | 0.020 | 0.088 | 0.017 | 0.074 | 0.000 | 0.001 | 0.002 | 0.007 | 0.001 | 0.005 |
| Space Heating #8 | 0.200 | 0.0002 | 0.020 | 0.088 | 0.017 | 0.074 | 0.000 | 0.001 | 0.002 | 0.007 | 0.001 | 0.005 |
| Space Heating #9 | 0.200 | 0.0002 | 0.020 | 0.088 | 0.017 | 0.074 | 0.000 | 0.001 | 0.002 | 0.007 | 0.001 | 0.005 |
| Space Heating #10 | 0.200 | 0.0002 | 0.020 | 0.088 | 0.017 | 0.074 | 0.000 | 0.001 | 0.002 | 0.007 | 0.001 | 0.005 |
| Space Heating #11(7/2005) | 0.200 | 0.0002 | 0.020 | 0.088 | 0.017 | 0.074 | 0.000 | 0.001 | 0.002 | 0.007 | 0.001 | 0.005 |
| Air Makeup Unit #1 | 6.610 | 0.0066 | 0.661 | 2.895 | 0.555 | 2.432 | 0.004 | 0.017 | 0.050 | 0.220 | 0.036 | 0.159 |
| Air Makeup Unit #2 | 6.610 | 0.0066 | 0.661 | 2.895 | 0.555 | 2.432 | 0.004 | 0.017 | 0.050 | 0.220 | 0.036 | 0.159 |
| Air Makeup Unit #3 | 6.610 | 0.0066 | 0.661 | 2.895 | 0.555 | 2.432 | 0.004 | 0.017 | 0.050 | 0.220 | 0.036 | 0.159 |
| Air Makeup Unit #4 (7/2005) | 6.610 | 0.0066 | 0.661 | 2.895 | 0.555 | 2.432 | 0.004 | 0.017 | 0.050 | 0.220 | 0.036 | 0.159 |
| Air Makeup Unit #5 (7/2005) | 6.610 | 0.0066 | 0.661 | 2.895 | 0.555 | 2.432 | 0.004 | 0.017 | 0.050 | 0.220 | 0.036 | 0.159 |
| Air Makeup Unit #6 (7/2005) | 6.610 | 0.0066 | 0.661 | 2.895 | 0.555 | 2.432 | 0.004 | 0.017 | 0.050 | 0.220 | 0.036 | 0.159 |
| Roof Mounted Office AMU #1 | 0.800 | 0.0008 | 0.080 | 0.350 | 0.067 | 0.294 | 0.000 | 0.002 | 0.006 | 0.027 | 0.004 | 0.019 |
| Roof Mounted AMU #2 | 1.282 | 0.0013 | 0.128 | 0.562 | 0.108 | 0.472 | 0.001 | 0.003 | 0.010 | 0.043 | 0.007 | 0.031 |
| Roof Mounted AMU #3 | 1.282 | 0.0013 | 0.128 | 0.562 | 0.108 | 0.472 | 0.001 | 0.003 | 0.010 | 0.043 | 0.007 | 0.031 |
| Roof Mounted AMU #4 | 1.282 | 0.0013 | 0.128 | 0.562 | 0.108 | 0.472 | 0.001 | 0.003 | 0.010 | 0.043 | 0.007 | 0.031 |
| Roof Mounted AMU #5 | 1.795 | 0.0018 | 0.180 | 0.786 | 0.151 | 0.660 | 0.001 | 0.005 | 0.014 | 0.060 | 0.010 | 0.043 |
| Roof Mounted AMU #6 | 1.795 | 0.0018 | 0.180 | 0.786 | 0.151 | 0.660 | 0.001 | 0.005 | 0.014 | 0.060 | 0.010 | 0.043 |
| Roof Mounted AMU #7 | 3.440 | 0.0034 | 0.344 | 1.507 | 0.289 | 1.266 | 0.002 | 0.009 | 0.026 | 0.115 | 0.019 | 0.083 |
| Vulcanization Line #4 | 0.198 | 0.0002 | 0.020 | 0.087 | 0.017 | 0.073 | 0.000 | 0.001 | 0.002 | 0.007 | 0.001 | 0.005 |
| Vulcanization Line #8 (7/2005) | 0.198 | 0.0002 | 0.020 | 0.087 | 0.017 | 0.073 | 0.000 | 0.001 | 0.002 | 0.007 | 0.001 | 0.005 |
| Ransburg Oven (7/2010) | 0.794 | 0.0008 | 0.079 | 0.348 | 0.067 | 0.292 | 0.000 | 0.002 | 0.006 | 0.026 | 0.004 | 0.019 |
| A8 Coating Booth Oven | 0.794 | 0.0008 | 0.079 | 0.348 | 0.067 | 0.292 | 0.000 | 0.002 | 0.006 | 0.026 | 0.004 | 0.019 |
| A4 Coating Booth Ovens (3 x 0.75 MMBTU/hr each) | 2.250 | 0.0023 | 0.225 | 0.986 | 0.189 | 0.828 | 0.001 | 0.006 | 0.017 | 0.075 | 0.012 | 0.054 |
| **Total All** | **57.770** | **0.058** | **5.777** | **25.303** | **4.853** | **21.255** | **0.035** | **0.152** | **0.439** | **1.923** | **0.318** | **1.392** |
| **Total Space Heating** | 53.54 | 0.05 | 5.35 | 23.45 | 4.50 | 19.70 | 0.03 | 0.14 | 0.41 | 1.78 | 0.29 | 1.29 |
| **Total Process Heating** | 4.234 | 0.004 | 0.423 | 1.854 | 0.356 | 1.558 | 0.003 | 0.011 | 0.032 | 0.141 | 0.023 | 0.102 |

Emission Factors from AP-42 1.4

## TGASK

### Potential to Emit - Natural Gas Generators (emergency backup only)

Fuel Type: Natural Gas
Heat Content: 1000 BTU/ft3
Maximum Operating Schedule: 100 hrs/yr as testing/maintenance

| | | | NOx | | CO | | SOx | | PM | | VOC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Rating | | Emission Factor | | Emission Factor | | Emission Factor | | Emission Factor | | Emission Factor | |
| **Ovens** | **MMBTU/hr** | **MMCF/hr** | 100 | lb/MMCF | 84 | lb/MMCF | 0.6 | lb/MMCF | 7.6 | lb/MMCF | 5.5 | lb/MMCF |
| | | | lb/hr | TPY | lb/hr | TPY | lb/hr | TPY | lb/hr | TPY | lb/hr | TPY |
| Generator #1 (20 kw/27 hp) | 0.267 | 0.0003 | 0.027 | 0.001 | 0.022 | 0.001 | 0.000 | 0.000 | 0.002 | 0.000 | 0.001 | 0.000 |
| Generator #2 (20 kw/27 hp) | 0.267 | 0.0003 | 0.027 | 0.001 | 0.022 | 0.001 | 0.000 | 0.000 | 0.002 | 0.000 | 0.001 | 0.000 |
| **Total** | **0.534** | **0.001** | **0.053** | **0.003** | **0.045** | **0.002** | **0.000** | **0.000** | **0.004** | **0.000** | **0.003** | **0.000** |

Emission Factors from AP-42 1.4

**TGASK**

**Miscellaneous Finishing Operations**

Updated July 2024

| Operation | Material Used | Density | Max Usage | | VOC | HAP Components | | | | | | | | | VOC | HAP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Ethyl Benzene | | Xylene | | Toluene | | Other HAP <0.5% each | | Total HAP | | |
| | | | | | | 100-41-4 | | 1330-20-7 | | 108-88-3 | | Total of Methanol, Chlorobenzene, Cumene, Maleic Anhydride | | | | |
| | | lb/gal | lb/hr | lb/yr | % by wt | % by wt | TPY | % by wt | TPY | % by wt | TPY | % by wt | TPY | % by wt | TPY | TPY |
| Assembly Adhesive | Loctite 406 | 9.17 | 0.17 | 1,447 | 2.0% | 0.00% | 0.00 | 0.00% | 0.00 | 0.00% | 0.00 | 0.00% | 0.00 | 0.00% | **0.014** | **0.00** |
| Adhesion Promoter Cells | 4298UV | 6.80 | 0.26 | 2,287 | 95.2% | 15.00% | 0.11 | 40.00% | 0.28 | 0.30% | 0.00 | 0.92% | 0.01 | 56.22% | **1.089** | **0.64** |
| | K520UV | 7.17 | 0.16 | 1,407 | 96.5% | 0.50% | 0.00 | 0.00% | 0.00 | 95.00% | 0.67 | 0.00% | 0.00 | 95.50% | **0.679** | **0.67** |
| Lubricating Oil | Vanishing Oil | 6.51 | 0.07 | 627 | 100.0% | 0.00% | 0.00 | 0.00% | 0.00 | 0.00% | 0.00 | 0.00% | 0.00 | 0.00% | **0.313** | **0.00** |
| **Total** | | | **0.66** | | | | **0.11** | | **0.28** | | **0.67** | | **0.01** | | **2.096** | **1.32** |

## TGASK
## Assembly Area Flock
Updated July 2024

| Operation | Density | Max Usage | | VOC | HAP Components | | | | | | | | | | Total HAP | HAP | VOC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Ethyl Benzene | | Xylene | | Toluene | | MIBK | | Cumene | | | | |
| | | | | | 100-41-4 | | 1330-20-7 | | 108-88-3 | | 108-10-1 | | 98-82-8 | | | | |
| | lb/gal | lb/hr | lb/yr | % by wt | % by wt | TPY | % by wt | TPY | % by wt | TPY | % by wt | TPY | % by wt | TPY | % by wt | TPY | TPY |
| Chemglaze 9984 Catalyst | 7.880 | 0.031 | 270 | 72.9% | 5.00% | 0.01 | 15.00% | 0.02 | 20.00% | 0.03 | | 0.00 | | 0.000 | 40.00% | **0.05** | **0.098** |
| Flockloc 853A Adhesive | 8.195 | 0.096 | 841 | 51.4% | 5.00% | 0.02 | 20.00% | 0.08 | 10.00% | 0.04 | 10.00% | 0.04 | 1.00% | 0.004 | 46.00% | **0.19** | **0.216** |
| **Total** | | **0.127** | | | | **0.03** | | **0.10** | | **0.07** | | **0.04** | | **0.004** | | **0.25** | **0.315** |

TGASK
Emissions Evaluation for A-4 Line/TGS06Y Coating Booth

**Coating Emissions** 2.205 lb/kg

| | Hourly | | Annual | |
|---|---|---|---|---|
| TGS06Y Maximum use | 3.925 | lb/hr | 34382.124 | lb/yr |
| | 1.780 | kg/hr | | |
| | 0.558 | gal/hr | | |

| TGS06Y | VOC Content | Solids Content | Density | Toluene |
|---|---|---|---|---|
| | % VOC by wt | % Solids by wt | lb/gal | % by wt |
| TID-1000 (Base) | 68.50% | 31.50% | 6.76 | 0.00% |
| TSD-200 (Crosslinking) | 90.00% | 10.00% | 7.09 | 90.00% |
| ND-300 | 60.80% | 39.20% | 7.17 | 0.00% |
| ND-400A/B | 70.00% | 30.00% | 7.71 | 0.00% |
| YC 6831 | 62.50% | 37.50% | 8.26 | 62.50% |
| Toluene | 100.00% | 0.00% | 7.26 | 100.00% |
| MEK | 100.00% | 0.00% | 6.72 | 0.00% |
| As-Mixed Content | 87.23% | 12.77% | 7.03 | 35.38% |
| As-Mixed lb/gal | 6.13 | 0.90 | | |

| Potential Emissions Coating | VOC | | Toluene | |
|---|---|---|---|---|
| | lb/hr | TPY | lb/hr | TPY |
| | 3.42 | 15.00 | 1.39 | 6.08 |

**Cleanup Emissions**

| | | | | |
|---|---|---|---|---|
| Cleanup Solvent: | Isopar | | Emissions | |
| Density: | 6.26 | lb/gal | 6.26 | lb/day VOC |
| VOC Content: | 100% | VOC | 1.14 | TPY VOC |
| HAP Content: | 0% | HAP | | |
| Usage: | 1.00 | gal/purge | | |
| | 1.00 | maximum purges per day | | |

| Potential Emissions Coating + Cleanup | VOC | Toluene |
|---|---|---|
| | TPY | TPY |
| | 16.14 | 6.08 |

# TGASK Extrusion and Curing Potenial Emissions

## Line A4 Extrusion and Curing Emissions

| | | |
|---|---|---|
| Maximum Rubber Throughput | 876 | lb/hr rubber |
| | 7,673,760 | lb rubber/yr |

Extrusion emission factors are interpolated emission factors from draft AP-42 4.12 for EPDM sulfur cure. The draft emission factors are not in the most recent version of AP-42 4.12.
Curing emission factors have been updated to the most recent version of AP-42 4.12 for Hot Air Curing for EPDM sulfur cure rubber (Compound #8)

## Extrusion and Curing - Criteria Pollutants & Total HAPs

| | EXTRUSION | | RUBBER CURING | | Total emission |
|---|---|---|---|---|---|
| | Emission Factor | Emission | Emission Factor | Emission | |
| Pollutant | lb/lb rubber | TPY | lb/lb rubber | TPY | TPY |
| VOC | 3.95E-05 | 0.152 | 8.25E-04 | 3.17 | 3.32 |
| PM | 2.67E-08 | 0.00010 | - | - | 0.00010 |
| Total HAP | 2.99E-05 | 0.115 | 9.76E-04 | 3.74 | 3.86 |

## Extrusion and Curing - Speciated HAPs/SARA Chemicals

| | | | | EXTRUSION | | | RUBBER CURING | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HAP | SARA 313 | Chemical | CAS | Emission Factor (lb/lb rubber) | lb/yr emission | TPY emission | Emission Factor (lb/lb rubber) | lb/yr emission | TPY emission | Total lb/yr emission | Total TPY emission |
| y | y | 1,1,1-Trichloroethane (Methyl chloroform) | 71556 | 1.43E-08 | 0.11 | 0.00 | | | 0.00 | 0.11 | 0.00 |
| y | y | 1,1-Dichloroethene (Vinylidene chloride) | 75354 | 5.37E-08 | 0.41 | 0.00 | | | 0.00 | 0.41 | 0.00 |
| y | y | 1,3-Butadiene | 106990 | 6.04E-08 | 0.46 | 0.00 | 1.24E-06 | 9.52 | 0.00 | 9.98 | 0.00 |
| y | y | 1,4-Dichlorobenzene | 106467 | | | | | | | | |
| y | y | MEK (2-Butanone) | 78933 | 2.72E-07 | 2.09 | 0.00 | | | 0.00 | 2.09 | 0.00 |
| y | y | MIBK (4-Methyl-2-Pentanone) | 108101 | 6.80E-08 | 0.52 | 0.00 | | | 0.00 | 0.52 | 0.00 |
| y | y | Acetophenone | 98862 | 6.91E-09 | 0.05 | 0.00 | 2.13E-04 | 1634.51 | 0.82 | 1634.56 | 0.82 |
| y | y | Acrylonitrile | 107131 | 3.65E-08 | 0.28 | 0.00 | | | | | |
| y | y | Aniline | 62533 | 4.13E-09 | 0.03 | 0.00 | 1.48E-07 | 1.14 | 0.00 | 1.17 | 0.00 |
| y | y | Benzene | 71432 | | | 0.00 | 4.88E-05 | 374.48 | 0.19 | 374.48 | 0.19 |
| y | y | Biphenyl | 92524 | | | 0.00 | 3.92E-07 | 3.01 | 0.00 | 3.01 | 0.00 |
| y | y | bis-(2-Ethylhexyl)phthalate | 117817 | | | 0.00 | 2.74E-07 | 2.10 | 0.00 | 2.10 | 0.00 |
| y | y | Cadmium Compounds | | | | | | | | | |
| y | y | Carbon Disulfide | 75150 | 1.50E-05 | 115.11 | 0.06 | 6.43E-04 | 4934.23 | 2.47 | 5049.33 | 2.52 |
| y | y | Carbonyl Sulfide | 463581 | 1.20E-05 | 92.09 | 0.05 | | | 0.00 | 92.09 | 0.05 |
| y | y | Chloromethane (Methyl Chloride) | 74873 | 2.00E-08 | 0.15 | 0.00 | | | 0.00 | 0.15 | 0.00 |
| y | y | Chromium Compounds | | 2.72E-10 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |
| y | y | Cumene | 98828 | 5.17E-08 | 0.40 | 0.00 | 8.08E-08 | 0.62 | 0.00 | 1.02 | 0.00 |
| y | y | Di-n-butylphthalate | 84742 | 4.00E-09 | 0.03 | 0.00 | | 0.00 | 0.00 | 0.03 | 0.00 |
| y | y | Dibenzofuran | 132649 | | | 0.00 | 2.10E-06 | 16.11 | 0.01 | 16.11 | 0.01 |
| y | y | Dimethylphthalate | 131113 | | | 0.00 | 3.19E-08 | 0.24 | 0.00 | 0.24 | 0.00 |
| y | y | Ethylbenzene | 100414 | 5.93E-08 | 0.46 | 0.00 | | | 0.00 | 0.46 | 0.00 |
| y | y | Methylene Chloride | 75092 | 2.58E-07 | 1.98 | 0.00 | 3.61E-06 | 27.70 | 0.01 | 29.68 | 0.01 |
| y | y | m/p-Xylene | 108383/106423 | 2.33E-07 | 1.79 | 0.00 | 4.28E-06 | 32.84 | 0.02 | 34.63 | 0.02 |
| y | y | Naphthalene | 91203 | 1.46E-08 | 0.11 | 0.00 | 1.07E-06 | 8.21 | 0.00 | 8.32 | 0.00 |
| y | y | n-Hexane | 110543 | 6.84E-07 | 5.25 | 0.00 | 3.13E-06 | 24.02 | 0.01 | 29.27 | 0.01 |
| y | n | Isooctane (2,2,4-Trimethylpentane) | 540841 | 1.32E-07 | 1.01 | 0.00 | | | 0.00 | 1.01 | 0.00 |
| y | y | Nickel Compounds | | 2.08E-09 | 0.02 | 0.00 | | | 0.00 | 0.02 | 0.00 |
| y | y | 0-Xylene | 95476 | 8.30E-08 | 0.64 | 0.00 | 4.92E-05 | 377.55 | 0.19 | 378.19 | 0.19 |
| y | y | phenol | 108952 | 1.71E-08 | 0.13 | 0.00 | 3.41E-07 | 2.62 | 0.00 | 2.75 | 0.00 |
| y | y | styrene | 108425 | 2.21E-08 | 0.17 | 0.00 | 4.25E-07 | 3.26 | 0.00 | 3.43 | 0.00 |
| y | y | tetrachloroethene | 127184 | 4.15E-08 | 0.32 | 0.00 | | | 0.00 | 0.32 | 0.00 |
| y | y | toluene | 108883 | 7.05E-07 | 5.41 | 0.00 | 4.37E-06 | 33.53 | 0.02 | 38.94 | 0.02 |

## TGASK Extrusion Line Coating

**Potential Emissions Line A8 Coating (EP8-MP1)**

| Product Name | Production | App Rate | Usage | Density | VOC | VOC | HAPs | | | | | HAP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Ethylene Glycol | | Glycol Ethers | | Total | |
| | lb/yr | lb/lb | lb/yr | lb/gal | % by wt | TPY | % by wt | lb/yr | % by wt | lb/yr | % by wt | TPY |
| MRC 323 -WT-91-023 | 4972176 | 0.0080574 | 40,063 | 8.41 | 16.32% | **3.269** | 0.00% | 0.00 | 10.00% | 604.28 | 10.00% | **0.30** |
| MRC 323 CP-377W | 4972176 | 0.0012153 | 6,043 | 8.34 | 10.00% | **0.30** | 5.00% | 450.71 | 0.00% | 0.00 | 5.00% | **0.23** |
| MRC 323 Bluesil | 4972176 | 0.0018129 | 9,014 | 8.10 | 5.00% | **0.225** | 0.00% | 0.00 | 0.00% | 0.00 | 0.00% | **0.00** |
| MRC 323 XR-5580 | 4972176 | 0.0004539 | 2,257 | 8.56 | 4.00% | **0.045** | 0.00% | 0.00 | 0.00% | 0.00 | 0.00% | **0.00** |
| Water | 4972176 | 0.0028604 | 14,222 | 8.34 | 0.00% | **0.000** | 0.00% | 0.00 | 0.00% | 0.00 | 0.00% | **0.00** |
| **Total** | | **0.0144** | **71,599** | | | **3.842** | | **450.7** | | **604.28** | 15.00% | **0.53** |
| | | | | | | | | **0.23** | | **0.30** | | |

| Lbs of Product per year derived from maximum extrusion data | | density | | | | | |
|---|---|---|---|---|---|---|---|
| | lb/hr | lb/gal | VOC | | | | |
| | 8.17 | 8.36 | 10.7% | 0.4% | 5.6% | 6.0% | |
| | | | 0.90 | | | | |

# TGASK Extrusion and Curing Potenial Emissions

## Line A8 Extrusion and Curing Emissions

| | | |
|---|---|---|
| Maximum Rubber Throughput | 876 | lb/hr rubber |
| | 7,673,760 | lb rubber/yr |

Extrusion emission factors are interpolated emission factors from draft AP-42 4.12 for EPDM sulfur cure. The draft emission factors are not in the most recent version of AP-42 4.12.
Curing emission factors have been updated to the most recent version of AP-42 4.12 for Hot Air Curing for EPDM sulfur cure rubber (Compound #8)

## Extrusion and Curing - Criteria Pollutants & Total HAPs

| | EXTRUSION | | RUBBER CURING | | Total emission |
|---|---|---|---|---|---|
| | Emission Factor | Emission | Emission Factor | Emission | |
| Pollutant | lb/lb rubber | TPY | lb/lb rubber | TPY | TPY |
| VOC | 3.95E-05 | 0.152 | 8.25E-04 | 3.17 | 3.32 |
| PM | 2.67E-08 | 0.00010 | - | - | 0.00010 |
| Total HAP | 2.99E-05 | 0.115 | 9.76E-04 | 3.74 | 3.86 |

## Extrusion and Curing - Speciated HAPs/SARA Chemicals

| | | | | EXTRUSION | | | RUBBER CURING | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HAP | SARA 313 | Chemical | CAS | Emission Factor (lb/lb rubber) | lb/yr emission | TPY emission | Emission Factor (lb/lb rubber) | lb/yr emission | TPY emission | Total lb/yr emission | Total TPY emission |
| y | y | 1,1,1-Trichloroethane (Methyl chloroform) | 71556 | 1.43E-08 | 0.11 | 0.00 | | | 0.00 | 0.11 | 0.00 |
| y | y | 1,1-Dichloroethene (Vinylidene chloride) | 75354 | 5.37E-08 | 0.41 | 0.00 | | | 0.00 | 0.41 | 0.00 |
| y | y | 1,3-Butadiene | 106990 | 6.04E-08 | 0.46 | 0.00 | 1.24E-06 | 9.52 | 0.00 | 9.98 | 0.00 |
| y | y | 1,4-Dichlorobenzene | 106467 | | | | | | | | |
| y | y | MEK (2-Butanone) | 78933 | 2.72E-07 | 2.09 | 0.00 | | | 0.00 | 2.09 | 0.00 |
| y | y | MIBK (4-Methyl-2-Pentanone) | 108101 | 6.80E-08 | 0.52 | 0.00 | | | 0.00 | 0.52 | 0.00 |
| y | y | Acetophenone | 98862 | 6.91E-09 | 0.05 | 0.00 | 2.13E-04 | 1634.51 | 0.82 | 1634.56 | 0.82 |
| y | y | Acrylonitrile | 107131 | 3.65E-08 | 0.28 | 0.00 | | | | | |
| y | y | Aniline | 62533 | 4.13E-09 | 0.03 | 0.00 | 1.48E-07 | 1.14 | 0.00 | 1.17 | 0.00 |
| y | y | Benzene | 71432 | | | 0.00 | 4.88E-05 | 374.48 | 0.19 | 374.48 | 0.19 |
| y | y | Biphenyl | 92524 | | | 0.00 | 3.92E-07 | 3.01 | 0.00 | 3.01 | 0.00 |
| y | y | bis-(2-Ethylhexyl)phthalate | 117817 | | | 0.00 | 2.74E-07 | 2.10 | 0.00 | 2.10 | 0.00 |
| y | y | Cadmium Compounds | | | | | | | | | |
| y | y | Carbon Disulfide | 75150 | 1.50E-05 | 115.11 | 0.06 | 6.43E-04 | 4934.23 | 2.47 | 5049.33 | 2.52 |
| y | y | Carbonyl Sulfide | 463581 | 1.20E-05 | 92.09 | 0.05 | | | 0.00 | 92.09 | 0.05 |
| y | y | Chloromethane (Methyl Chloride) | 74873 | 2.00E-08 | 0.15 | 0.00 | | | 0.00 | 0.15 | 0.00 |
| y | y | Chromium Compounds | | 2.72E-10 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |
| y | y | Cumene | 98828 | 5.17E-08 | 0.40 | 0.00 | 8.08E-08 | 0.62 | 0.00 | 1.02 | 0.00 |
| y | y | Di-n-butylphthalate | 84742 | 4.00E-09 | 0.03 | 0.00 | | 0.00 | 0.00 | 0.03 | 0.00 |
| y | y | Dibenzofuran | 132649 | | | 0.00 | 2.10E-06 | 16.11 | 0.01 | 16.11 | 0.01 |
| y | y | Dimethylphthalate | 131113 | | | 0.00 | 3.19E-08 | 0.24 | 0.00 | 0.24 | 0.00 |
| y | y | Ethylbenzene | 100414 | 5.93E-08 | 0.46 | 0.00 | | | 0.00 | 0.46 | 0.00 |
| y | y | Methylene Chloride | 75092 | 2.58E-07 | 1.98 | 0.00 | 3.61E-06 | 27.70 | 0.01 | 29.68 | 0.01 |
| y | y | m/p-Xylene | 108383/106423 | 2.33E-07 | 1.79 | 0.00 | 4.28E-06 | 32.84 | 0.02 | 34.63 | 0.02 |
| y | y | Naphthalene | 91203 | 1.46E-08 | 0.11 | 0.00 | 1.07E-06 | 8.21 | 0.00 | 8.32 | 0.00 |
| y | y | n-Hexane | 110543 | 6.84E-07 | 5.25 | 0.00 | 3.13E-06 | 24.02 | 0.01 | 29.27 | 0.01 |
| y | n | Isooctane (2,2,4-Trimethylpentane) | 540841 | 1.32E-07 | 1.01 | 0.00 | | | 0.00 | 1.01 | 0.00 |
| y | y | Nickel Compounds | | 2.08E-09 | 0.02 | 0.00 | | | 0.00 | 0.02 | 0.00 |
| y | y | 0-Xylene | 95476 | 8.30E-08 | 0.64 | 0.00 | 4.92E-05 | 377.55 | 0.19 | 378.19 | 0.19 |
| y | y | phenol | 108952 | 1.71E-08 | 0.13 | 0.00 | 3.41E-07 | 2.62 | 0.00 | 2.75 | 0.00 |
| y | y | styrene | 108425 | 2.21E-08 | 0.17 | 0.00 | 4.25E-07 | 3.26 | 0.00 | 3.43 | 0.00 |
| y | y | tetrachloroethene | 127184 | 4.15E-08 | 0.32 | 0.00 | | | 0.00 | 0.32 | 0.00 |
| y | y | toluene | 108883 | 7.05E-07 | 5.41 | 0.00 | 4.37E-06 | 33.53 | 0.02 | 38.94 | 0.02 |

**TGASK Extrusion Line Coatings**
**Ransburg Coater**

**Application rate:** **90 cc/min**
**0.09 l/min** **1.4256 gal/hr** **11.91 lb/hr**

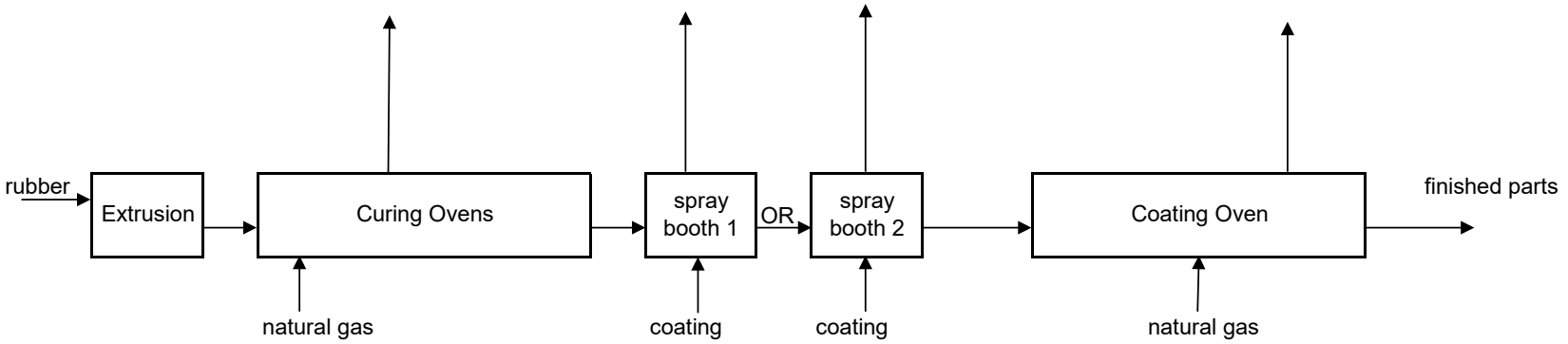
| | | | | | | | | | HAP | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silicone | | | | VOC | Density | | | VOC | Ethylene Glycol | | Glycol Ethers | |
| | Component | grams/mix | % VOC | grams/mix | lb/gal | g/ltr | L/mix | g/ltr | % by wt | gr/mix | % by wt | gr/mix |
| | | | | | | | | | | | | |
| | MRC 323 -WT-91-023 | 2036 | 16.32% | 332.28 | 8.4 | 1008 | 2.02 | | 0.00% | 0 | 10.00% | 203.6 |
| | MRC 323 CP-377W | 304 | 10.00% | 30.40 | 8.34 | 1000.8 | 0.30 | | 5.00% | 15.2 | 0.00% | 0 |
| | MRC 323 Bluesil | 380 | 5.00% | 19.00 | 8.1 | 972 | 0.39 | | 0.00% | 0 | 0.00% | 0 |
| | MRC 323 XR-5580 | 164 | 4.00% | 6.56 | 8.56 | 1027.2 | 0.16 | | 0.00% | 0 | 0.00% | 0 |
| | Water | 1130 | 0.00% | 0.00 | 8.34 | 1000.8 | 1.13 | | 0.00% | 0 | 0.00% | 0 |
| | Total | 4014 | | 388.24 | 8.36 | | 4.00 | 96.98 | 5.00% | 15.20 | 10.00% | 203.60 |

| Ethylene Glycol | | Glycol Ethers | | Total HAP | | VOC Emissions | | |
|---|---|---|---|---|---|---|---|---|
| lb/hr | TPY | lb/hr | TPY | lb/hr | TPY | g/min | lb/hr | TPY |
| 0.045 | 0.20 | 0.605 | 2.65 | 0.65 | 2.85 | 8.73 | 1.15 | 5.05 |

# SECTION 6.0

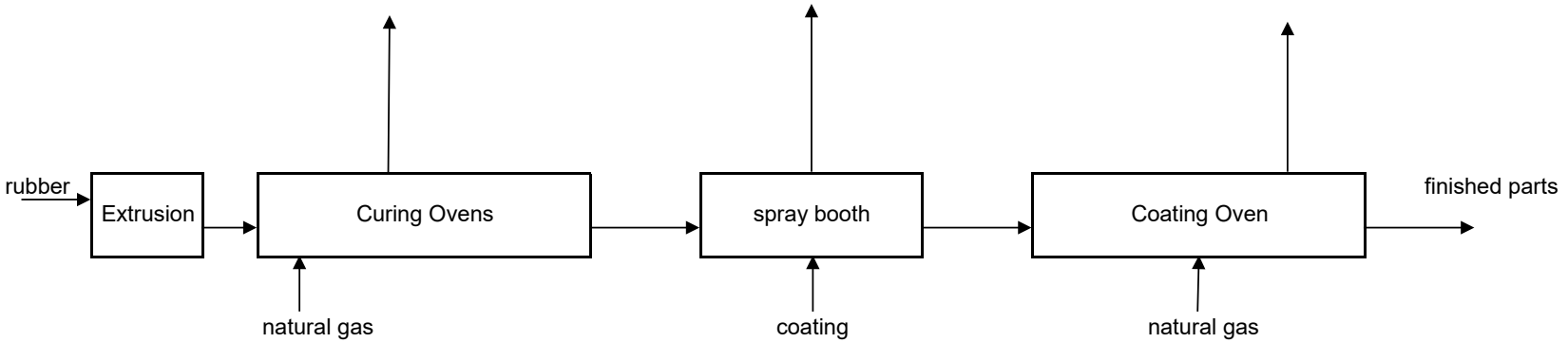
# PROCESS FLOW DIAGRAMS

# Line A4



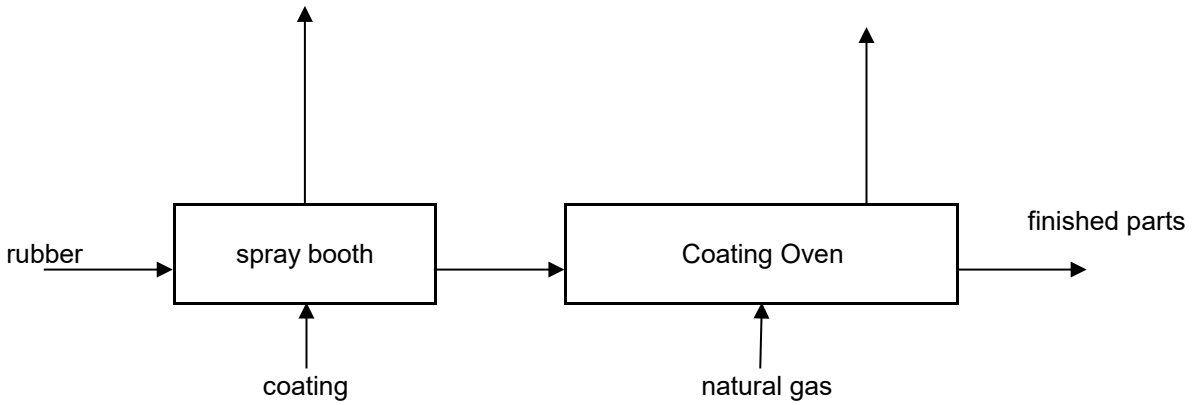

| | |
|---|---|
| EHS Technology Group | TGASK<br>Process Flow Diagram<br>Line A4 |

# Line A8




| | |
|---|---|
| EHS Technology Group | TGASK<br>Process Flow Diagram<br>Line A8 |

# Ransburg Coating




| | |
|---|---|
| EHS Technology Group | TGASK<br>Process Flow Diagram<br>Ransburg Coating |

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

# DEP7007AI

## Administrative Information

___ Section AI.1: Source Information

___ Section AI.2: Applicant Information

___ Section AI.3: Owner Information

___ Section AI.4: Type of Application

___ Section AI.5: Other Required Information

___ Section AI.6: Signature Block

___ Section AI.7: Notes, Comments, and Explanations

**Additional Documentation**

___ Additional Documentation attached

**Source Name:** TG Automotive Sealing Kentucky, LLC

**KY EIS (AFS) #:** 21- 047-00108

**Permit #:** F-19-042

**Agency Interest (AI) ID:** 4417

**Date:** 7/25/2024 - Revised 11/25/2024

## Section AI.1: Source Information

| | | | | | | |
|---|---|---|---|---|---|---|
| **Physical Location Address:** | **Street:** | 501 Frank Yost Lane | | | | |
| | **City:** | Hopkinsville | **County:** | Christian | **Zip Code:** | 42240 |
| **Mailing Address:** | **Street or P.O. Box:** | (same) | | | | |
| | **City:** | | **State:** | | **Zip Code:** | |

**Standard Coordinates for Source Physical Location**

**Longitude:** 36.804444 (decimal degrees) **Latitude:** -87.389444 (decimal degrees)

**Primary (NAICS) Category:** Manufacturing - Motor Vehicle Parts **Primary NAICS #:** 336390

7AI

**Classification (SIC) Category:** Manufacturing - Motor Vehicle Parts **Primary SIC #:** 3714

**Briefly discuss the type of business conducted at this site:** Manufacturing of rubber and plastic automotive sealing products and assembly of automotive air bags.

**Description of Area Surrounding Source:** ☐ Rural Area ☑ Industrial Park ☐ Residential Area ☐ Urban Area ☐ Industrial Area ☐ Commercial Area

**Is any part of the source located on federal land?** ☐ Yes ☑ No

**Number of Employees:** 420

**Approximate distance to nearest residence or commercial property:** *525 meters*

**Property Area:** 90 acres

**Is this source portable?** ☐ Yes ☑ No

**What other environmental permits or registrations does this source currently hold or need to obtain in Kentucky?**

| | | | |
|---|---|---|---|
| **NPDES/KPDES:** | ☑ Currently Hold | ☐ Need | ☐ N/A |
| **Solid Waste:** | ☑ Currently Hold | ☐ Need | ☐ N/A |
| **RCRA:** | ☐ Currently Hold | ☐ Need | ☑ N/A |
| **UST:** | ☐ Currently Hold | ☐ Need | ☑ N/A |

**Type of Regulated Waste Activity:** ☐ Mixed Waste Generator ☑ Generator ☐ Recycler ☐ Other: _____ ☐ U.S. Importer of Hazardous Waste ☐ Transporter ☐ Treatment/Storage/Disposal Facility ☐ N/A

## Section AI.2: Applicant Information

**Applicant Name:** TG Automotive Sealing Kentucky, LLC

**Title:** (if individual)

**Mailing Address:** Street or P.O. Box: 510 Frank Yost Lane
City: Hopkinsville State: Ky Zip Code: 42240

**Email:** (if individual)

**Phone:** (270) 475-1400

**Technical Contact**

**Name:** Jackie R Cantrell (JR)

**Title:** EHS Manager

**Mailing Address:** Street or P.O. Box: 501 Frank Yost Lane
City: Hopkinsville State: KY Zip Code: 42240

**Email:** Jackie.Cantrell@toyodagosei.com

**Phone:** (270) 475-1653

**Air Permit Contact for Source**

**Name:** (same)

**Title:**

**Mailing Address:** Street or P.O. Box:
City: State: Zip Code:

**Email:**

**Phone:**

## Section AI.3: Owner Information

☑ **Owner same as applicant**

**Name:**

**Title:**

**Mailing Address:** Street or P.O. Box:

City: State: Zip Code:

**Email:**

**Phone:**

**List names of owners and officers of the company who have an interest in the company of 5% or more.**

| Name | Position |
|---|---|
| | |
| | |
| | |

## Section AI.4: Type of Application

**Current Status:** ☐ Title V ☑ Conditional Major ☐ State-Origin ☐ General Permit ☐ Registration ☐ None

**Requested Action:** *(check all that apply)*

| | | | |
|---|---|---|---|
| ☐ Name Change | ☐ Initial Registration | ☐ Significant Revision | ☐ Administrative Permit Amendment |
| ☑ Renewal Permit | ☐ Revised Registration | ☐ Minor Revision | ☐ Initial Source-wide OperatingPermit |
| ☐ 502(b)(10)Change | ☐ Extension Request | ☐ Addition of New Facility | ☐ Portable Plant Relocation Notice |
| ☐ Revision | ☐ Off Permit Change | ☐ Landfill Alternate Compliance Submittal | ☐ Modification of Existing Facilities |
| ☐ Ownership Change | ☐ Closure | | |

**Requested Status:** ☐ Title V ☑ Conditional Major ☐ State-Origin ☐ PSD ☐ NSR ☐ Other: _____

**Is the source requesting a limitation of potential emissions?** ☑ Yes ☐ No

| Pollutant: | Requested Limit: | Pollutant: | Requested Limit: |
|---|---|---|---|
| ☐ Particulate Matter | | ☑ Single HAP | <10 TPY |
| ☐ Volatile Organic Compounds (VOC) | | ☑ Combined HAPs | <25 TPY |
| ☐ Carbon Monoxide | | ☐ Air Toxics (40 CFR 68, Subpart F) | |
| ☐ Nitrogen Oxides | | ☐ Carbon Dioxide | |
| ☐ Sulfur Dioxide | | ☐ Greenhouse Gases (GHG) | |
| ☐ Lead | | ☐ Other | |

**For New Construction:**

**Proposed Start Date of Construction:** *(MM/YYYY)* _____ **Proposed Operation Start-Up Date:** *(MM/YYYY)* _____

**For Modifications:**

**Proposed Start Date of Modification:** *(MM/YYYY)* _____ **Proposed Operation Start-Up Date:** *(MM/YYYY)* _____

**Applicant is seeking coverage under a permit shield.** ☐ Yes ☑ No

**Identify any non-applicable requirements for which permit shield is sought on a separate attachment to the application.**

## Section AI.5 Other Required Information

**Indicate the documents attached as part of this application:**

- ☐ DEP7007A Indirect Heat Exchangers and Turbines
- ☑ DEP7007B Manufacturing or Processing Operations
- ☐ DEP7007C Incinerators and Waste Burners
- ☐ DEP7007F Episode Standby Plan
- ☐ DEP7007J Volatile Liquid Storage
- ☑ DEP7007K Surface Coating or Printing Operations
- ☐ DEP7007L Mineral Processes
- ☐ DEP7007M Metal Cleaning Degreasers
- ☐ DEP7007N Source Emissions Profile
- ☐ DEP7007P Perchloroethylene Dry Cleaning Systems
- ☐ DEP7007R Emission Offset Credit
- ☐ DEP7007S Service Stations
- ☐ DEP7007T Metal Plating and Surface Treatment Operations
- ☑ DEP7007V Applicable Requirements and Compliance Activities
- ☐ DEP7007Y Good Engineering Practice and Stack Height Determination
- ☐ DEP7007AA Compliance Schedule for Non-complying Emission Units
- ☐ DEP7007BB Certified Progress Report
- ☐ DEP7007CC Compliance Certification
- ☑ DEP7007DD Insignificant Activities
- ☑ DEP7007EE Internal Combustion Engines
- ☐ DEP7007FF Secondary Aluminum Processing
- ☐ DEP7007GG Control Equipment
- ☐ DEP7007HH Haul Roads
- ☐ Confidentiality Claim
- ☐ Ownership Change Form
- ☐ Secretary of State Certificate
- ☑ Flowcharts or diagrams depicting process
- ☐ Digital Line Graphs (DLG) files of buldings, roads, etc.
- ☐ Site Map
- ☐ Map or drawing depicting location of facility
- ☐ Safety Data Sheet (SDS)
- ☐ Emergency Response Plan
- ☑ Other: _____

## Section AI.6: Signature Block

**I, the undersigned, hereby certify under penalty of law, that I am a responsible official*, and that I have personally examined, and am familiar with, the information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the information is on knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false or incomplete information, including the possibility of fine or imprisonment.**

Brett A. Welsh — **Authorized Signature**

11-26-24 — **Date**

BRETT A. WELSH — **Type or Printed Name of Signatory**

11-26-24 — **Title of Signatory**

*Responsible official as defined by 401 KAR 52:001.

| Section AI.7: Notes, Comments, and Explanations |
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# DEP7007K

## Surface Coating or Printing Operations

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

__ Section K.1: Process Information

__ Section K.2: Coating Operations

__ Section K.3: Other Operations

__ Section K.4: Coatings/Printing Materials as Applied

__ Section K.5: HAP-containing Coatings/Printing Materials

__ Section K.6: Notes, Comments, and Explanations

**Additional Documentation**

___ Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG.

___ Attach SDS or Technical Sheets for all Coating/Printing Materials

___ Attach a flow diagram

**Source Name:** TG Automotive Sealing Kentucky, LLC

**KY EIS (AFS) #:** 21- 047-00108

**Permit #:** F-19-042

**Agency Interest (AI) ID:** 4417

**Date:** 7/25/2024 - Revosed 11/25/2024

## Section K.1: Process Information

**Emission Unit #:** Emission Point 04

**Emission Unit Name:** Line # A4 Rubber Line

**Coating/Printing Line Name:** Line # A4 Rubber Line Coating (MP4)

**Proposed/Actual Date of Construction:** *(MM/YYYY)* 2020 modified

**List Applicable Regulations:** 401 KAR 63:020

**Describe Overall Process:** spray application of coating to rubber parts

**Describe Coatings/Printing Materials:** silicone (water-based) or solvent-based coating

**Identify the Material**

**that is Coated/Printed:** ☐ Metal ☐ Vinyl ☐ Plastics ☐ Wood ☐ Foil ☐ Paper ☑ Other Substrate

**Provide detailed description of material coated/printed:** rubber

**Provide approximate dimensions and range of sizes of parts being coated or printed:**

**Identify the Type of Operation:** ☑ Continuous ☐ Batch ☐ Other:

**Describe Surface Preparation/Pretreatment Steps:** N/A

**For Coating Operations:** ☑ Spray ☐ Flow ☐ Dip tank ☐ Electrodeposition ☐ Brush ☐ Powder ☐ Roller Coat ☐ Other:

**For Printing Operations:** *(Select all that apply)* ☐ Web ☐ Rotogravure ☐ Heatset ☐ Lithographic ☐ Sheetfed ☐ Letterpress ☐ Non-heatset ☐ Flexographic ☐ Other:

**Describe Final Product:** rubber automotive sealing products

**Check the category that most closely describes this unit:**

| | | | |
|---|---|---|---|
| ☐ Large Appliance Coating | ☐ Auto or Light-Duty Truck Coating | ☐ Metal Furniture Coating | ☐ Metal Coil Coating |
| ☐ Beverage Can Coating | ☐ Miscellaneious Metal Parts Coating | ☐ Magnet Wire Insulation Coating | ☐ Flat Wood Panel Coating |
| ☐ Fabric, Vinyl, or Paper Coating | ☐ Boat Manufacturing/ Ship Repair | ☐ Pressure Sensitive Tape and Label Coating | ☐ Magnet Tape Coating |
| ☐ Publication Rotogravure Printing | ☐ Coating of Plastic Parts for Business Machines | ☐ Flexible Vinyl and Urethane Coating and Printing | |
| ☐ Graphic Arts using Rotogravure and Flexographic Printing | | | ☑ Other: rubber |

## Section K.2: Coating Operations

### K.2A: For Spray Coating

| Gun/Booth ID | Describe Function | Type | Mode | Maximum Design Application Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|---|---|
| A4 Booth | spray coating | ☐ Conventional Air Gun<br>☐ Airless ☑ HVLP<br>☐ Electrostatic ☐ LVLP<br>☐ Aerosol Spray Can ☐ Other | ☐ Manual<br>☑ Automatic | 17.64 | lb/hr | ☐ Testing<br>☐ Equipment Specification Sheet<br>☑ Estimation |
| | | ☐ Conventional Air Gun<br>☐ Airless ☐ HVLP<br>☐ Electrostatic ☐ LVLP<br>☐ Aerosol Spray Can ☐ Other | ☐ Manual<br>☐ Automatic | | | ☐ Testing<br>☐ Equipment Specification Sheet<br>☐ Estimation |
| | | ☐ Conventional Air Gun<br>☐ Airless ☐ HVLP<br>☐ Electrostatic ☐ LVLP<br>☐ Aerosol Spray Can ☐ Other | ☐ Manual<br>☐ Automatic | | | ☐ Testing<br>☐ Equipment Specification Sheet<br>☐ Estimation |

**If spray guns are used simultaneously, describe:**

### K.2B: For Brush Coating

**Describe Function:**

**Maximum Coating Application Rate:** *(gal/hr)*

### K.2C: For Roller Coating

| Roller Coat ID | Describe Function | Maximum Coating Application Rate *(gal/hr)* | Describe how maximum rate was determined |
|---|---|---|---|
| | | | ☐ Testing ☐ Estimation<br>☐ Equipment Specification Sheet |
| | | | ☐ Testing ☐ Estimation<br>☐ Equipment Specification Sheet |
| | | | ☐ Testing ☐ Estimation<br>☐ Equipment Specification Sheet |

## K.2D: For Powder Coating

| Powder Coat ID | Describe Function | Maximum Coating Application Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |

| If powder coating material is recycled, describe: | |
|---|---|

## K.2E: For Flow Coating

| Flow Coat ID | Describe Function | Maximum Coating Application Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |

## K.2F: For Dip Tank/Electrodeposition Coating

| Tank ID | Describe Function | Maximum Make-up Rate *(gal/hr or lb/hr)* | | Describe how maximum rate was determined |
|---|---|---|---|---|
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |
| | | | | ☐ Testing ☐ Estimation ☐ Equipment Specification Sheet |

## Section K.3: Other Operations

### K.3A: For Finishing

| Describe Finishing Processes: *Complete Form DEP7007B as applicable* | |
|---|---|

### K.3B: For Curing/Drying

| Describe Curing/Drying Processes: | Description | Rated Capacity *(MMBtu/hr)* | Fuel | Control Device/Stack ID |
|---|---|---|---|---|
| natural gas fired drying oven | 3 oven sections at 0.75 MMBTU/hr each | 2.25 | natural gas | |
| | | | | |
| | | | | |
| | | | | |

### K.3C: For Purge

**Type:** Isopar

**Daily Usage:** 1 gal/day

### K.3D: For Clean-up

**Type:** ☐ Manual ☐ Automatic

**Daily Usage:** _____ hrs/day

**Operating Hours:** _____

### K.3E: For Other Equipment

| Describe Processes: | |
|---|---|

## Section K.4: Coatings/Printing Materials As Applied

Include SDS or Technical Sheets for all coating/printing materials used.

| Trade Name of Material | Description *(Identify as coating, ink, fountain solution, blanket wash, cleaning solvent, thinning solvent, auto wash, manual wash, etc.)* | Emission Unit/Coating ID where material is used | SCC Code | SCC Code Units | Density *(lb/gal)* | Solid Content *(lb/gal)* | VOC Content *(lb/gal)* | Emission Factor for PM* *(lb/SCC)* | Transfer Efficiency *(%)* | Emission Factor for VOC *(lb/SCC)* | Capture Efficiency *(%)* | Control Device/ Stack ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TGS06Y As-Applied | coating | A4 Booth | 40299998 | | 6.13 | 0.9 | 5.35 | | | | | |
| Above is worst-case, other coatings are utilized | | | | | | | | | | | | |
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**Emission factor for particulate matter (PM) should not include transfer efficiency.*

## Section K.5: Hazardous Air Pollutant-containing Coatings/Printing Materials

List each individual hazardous air pollutant (HAP) contained in each material.

| Trade Name of Material | HAP Name | HAP CAS # | Identify Solid (*S*) or Volatile (*V*) | HAP % by weight | HAP Emission Factor *(lb/SCC)* | Control Device/ Stack ID |
|---|---|---|---|---|---|---|
| TGS06Y As-Applied | Toluene | 108-88-3 | V | 35.38% | | |
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| Section K.6: Notes, Comments, and Explanations |
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TGASK
Emissions Evaluation for A-4 Line/TGS06Y Coating Booth
Updated as of November 25, 2024

**Coating Emissions**

2.205 lb/kg

| | Hourly | | Annual | |
|---|---|---|---|---|
| TGS06Y Maximum use | 17.640 | lb/hr | 154526.400 | lb/yr |
| | 2.509 | gal/hr | | |

| TGS06Y | VOC Content | Solids Content | Density | Toluene |
|---|---|---|---|---|
| | % VOC by wt | % Solids by wt | lb/gal | % by wt |
| TID-1000 (Base) | 68.50% | 31.50% | 6.76 | 0.00% |
| TSD-200 (Crosslinking) | 90.00% | 10.00% | 7.09 | 90.00% |
| ND-300 | 60.80% | 39.20% | 7.17 | 0.00% |
| ND-400A/B | 70.00% | 30.00% | 7.71 | 0.00% |
| YC 6831 | 62.50% | 37.50% | 8.26 | 62.50% |
| Toluene | 100.00% | 0.00% | 7.26 | 100.00% |
| MEK | 100.00% | 0.00% | 6.72 | 0.00% |
| As-Mixed Content | 87.23% | 12.77% | 7.03 | 35.38% |
| As-Mixed lb/gal | 6.13 | 0.90 | | |

| Potential Emissions Coating | VOC | | Toluene | |
|---|---|---|---|---|
| | lb/hr | TPY | lb/hr | TPY |
| | 15.39 | 67.40 | 6.24 | 27.34 |

**Cleanup Emissions**

| | | | Emissions | |
|---|---|---|---|---|
| Cleanup Solvent: | Isopar | | | |
| Density: | 6.26 | lb/gal | 6.26 | lb/day VOC |
| VOC Content: | 100% | VOC | 1.14 | TPY VOC |
| HAP Content: | 0% | HAP | | |
| Usage: | 1.00 | gal/purge | | |
| | 1.00 | maximum purges per day | | |

| Potential Emissions Coating + Cleanup | VOC | Toluene |
|---|---|---|
| | TPY | TPY |
| | 68.54 | 27.34 |

TGASK
FACILITY-WIDE POTENTIAL TO EMIT
Updated as of November 25, 2024

Potential to Emit without limitations

| Process | KYDEP Permit Status | VOC | PM | NOx | CO | SOx | Total HAP | Single HAP (not all listed, just examples of highest) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | TPY | TPY | TPY | TPY | TPY | TPY | Carbon Disulfide TPY | Toluene TPY | Glycol Ethers TPY |
| A4 EXTRUSION | Emission Point 04, MP3 | 0.15 | 0.00 | - | - | - | 0.11 | 0.06 | 0.00 | |
| A4 RUBBER CURING | Emission Point 04, MP2 | 3.17 | - | - | - | - | 3.74 | 2.47 | 0.02 | |
| A4 ON-LINE COATING | Emission Point 04, MP4 | 68.54 | - | - | - | - | 27.34 | - | 27.34 | |
| A8 EXTRUSION | Emission Point 08, MP3 | 0.15 | 0.00 | - | - | - | 0.11 | 0.06 | 0.00 | |
| A8 RUBBER CURING | Emission Point 08, MP2 | 3.17 | - | - | - | - | 3.74 | 2.47 | 0.02 | |
| A8 ON-LINE COATING | Emission Point 08, MP1 | 3.84 | - | - | - | - | 0.53 | - | - | 0.30 |
| OFF-LINE COATING RANSBURG | Emission Point 16, Off-Line Coating | 5.05 | - | - | - | - | 2.85 | - | - | 2.65 |
| Insignificant and Trivial Operations | | | | | | | | | | |
| NG Combustion Units | Insignificant | 1.39 | 1.92 | 25.30 | 21.25 | 0.15 | - | - | - | - |
| NG Emergency Generators | Insignificant | 0.000 | 0.000 | 0.003 | 0.002 | 0.000 | - | - | - | - |
| Finishing - Assembly Adhesive | Insignificant | 0.014 | - | - | - | - | - | - | - | - |
| Finishing - Adhesion Promoter Cells Type 1 | Insignificant | 1.412 | - | - | - | - | 0.54 | - | 0.004 | - |
| Finishing - Adhesion Promoter Cells Type 2 | Insignificant | 0.901 | - | - | - | - | 0.84 | - | 0.84 | - |
| Finishing - Lubricating Oil | Insignificant | 0.313 | - | - | - | - | - | - | - | - |
| Flock Adhesive Off-line Application | Insignificant | 0.315 | - | - | - | - | 0.25 | - | 0.07 | - |
| A9 TPO Extrusion | Trivial - no known emissions | - | - | - | - | - | - | - | - | - |
| Totals | | 88.41 | 1.92 | 25.31 | 21.26 | 0.15 | 40.07 | 5.05 | 28.29 | 2.95 |
| | | | | | | | Limit to <25 | | Limit to <10 | |