SHIELD
ENVIRONMENTAL ASSOCIATES, INC.

July 24, 2025

Mr. Zachary Bittner
KY Dept. for Environmental Protection
Division for Air Quality
Permit Review Branch
300 Sower Blvd. 2nd Floor
Frankfort, KY 40601

Subject: Renewal for Permit F-20-029
Link-Belt Cranes, L.P., LLLP
Lexington, (Fayette County), Kentucky
AI #4929, Facility ID #21-067-00017

Project No. 302-1395D

Dear Mr. Bittner:

Link-Belt Cranes, L.P., LLLP, a Delaware Limited Liability Limited Partnership (Link-Belt) is submitting a renewal application in accordance with 401 KAR 52:030 Section 12. In this renewal application, Link-Belt is submitting a 7007 N Form (see Appendix A) to update the coatings used at the various paint booths due to slight changes in composition as shown in the new environmental data sheets (EDS) (see Appendix C). Due to the naphthalene and glycol ether content in one of the coatings, Link-Belt is also requesting a limit for naphthalene due to the toxicity; however, the single and total HAP emissions did not exceed the 10-ton and 25-ton per year thresholds. A 7007 V Form has been included for the naphthalene limit request.

Link-Belt is providing a mark-up for the current permit F-20-029 (see Appendix D) to include the requested naphthalene limit and the 2023 Administrative Amendment, the 2024 502(b)(10) Change and the 2025 502(b)(10) Change applications submitted to Kentucky Division for Air Quality (DAQ) (see Appendix E for the previous cover letters). DAQ processed the 2023 administrative amendment application as an off-permit change and no changes to the permit were made at that time.

Should there be any questions, please do not hesitate to contact Nicole Galavotti at (859) 294-5155 or Raymond Hayes at (859) 263-5200. Thank you.

Sincerely,

SHIELD ENVIRONMENTAL ASSOCIATES, INC.

Nicole Galavotti, P.E.
Principal, Sr. Environmental Engineer
email: nicole_galavotti@shieldmw.com

Daniel Porter, PhD, P.E.
Environmental Engineer
email: Daniel_Porter@shieldmw.com

cc: Raymond Hayes – Link-Belt Cranes

Attachments
Appendix A DEP7007 Forms
Appendix B Potential To Emit Calculations
Appendix C Environmental Data Sheets (EDSs)
Appendix D Permit Markup
Appendix E Previous Cover Letters for Prior Applications
Appendix F Air Toxics Screening Results - Naphthalene

Lexington
948 Floyd Drive
Lexington, KY 40505
Telephone 859.294.5155
Fax 859.294.5255
www.shieldenv.com

Louisville, KY

APPENDIX A

DEP7007 Forms

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: **Link-Belt Cranes, L.P., LLLP, a Delaware Limited Liability Limited Partnership**

KY EIS (AFS) #: **21- 067-00017**

Permit #: **F-20-029**

Agency Interest (AI) ID: **4929**

Date: **7/24/2025**

Section AI.1: Source Information

Physical Location Address:	**Street:**	2651 Palumbo Drive				
	City:	Lexington	**County:**	Fayette	**Zip Code:**	40509
Mailing Address:	**Street or P.O. Box:**	2651 Palumbo Drive				
	City:	Lexington	**State:**	KY	**Zip Code:**	40509

Standard Coordinates for Source Physical Location

Longitude: -84.4329 (decimal degrees) **Latitude:** 38.0101 (decimal degrees)

Primary (NAICS) Category: Construction Machinery Manufacturing **Primary NAICS #:** 333120

Classification (SIC) Category: Construction Machinery **Primary SIC #:** 3531

Briefly discuss the type of business conducted at this site: Link-Belt is a construction equipment manufacturing facility. This facility primarily engaged in painting, welding, and blasting for the manufacturing of cranes.

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: 743

Approximate distance to nearest residence or commercial property: *600 ft*

Property Area: 104.52 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: Link-Belt Cranes, L.P., LLLP, a Delaware Limited Liability Limited Partnership

Title: (if individual)

Mailing Address:
Street or P.O. Box: 2651 Palumbo Drive
City: Lexington **State:** KY **Zip Code:** 40509

Email: (if individual)

Phone: (859) - 263-5200

Technical Contact

Name: Mr. Raymond Hayes

Title: Security, Environmental and Safety Manager

Mailing Address:
Street or P.O. Box: 2651 Palumbo Drive
City: Lexington **State:** KY **Zip Code:** 40509

Email: rhayes@linkbelt.com

Phone: (859) - 264-6450

Air Permit Contact for Source

Name: Nicole Galavotti, P.E.

Title: Sr. Environmental Engineer, Shield Environmental Assoc., Inc.

Mailing Address:
Street or P.O. Box: 948 Floyd Drive
City: Lexington **State:** KY **Zip Code:** 40505

Email: nicole_galavotti@shieldmw.com

Phone: (859) - 294-5155

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
Link-Belt Cranes, L.P., LLLP, a Delaware Limited Liability Limited Partnership is a wholly-owned subsidiary of Sumitomo Heavy Industries, LTD.	

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	90 tons/yr	☐ Single HAP	
☑ Volatile Organic Compounds (VOC)	90 tons/yr	☐ Combined HAPs	
☐ Carbon Monoxide		☐ Air Toxics (40 CFR 68, Subpart F)	
☐ Nitrogen Oxides		☐ Carbon Dioxide	
☐ Sulfur Dioxide		☐ Greenhouse Gases (GHG)	
☐ Lead		☑ Other	Naphthalene, 963 lbs/yr

For New Construction:

Proposed Start Date of Construction: *(MM/YYYY)* N/A

Proposed Operation Start-Up Date: *(MM/YYYY)* N/A

For Modifications:

Proposed Start Date of Modification: *(MM/YYYY)* N/A

Proposed Operation Start-Up Date: *(MM/YYYY)* N/A

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: Environmental Data Sheets, Potential to Emit Calculations, permit mark up, cover letters from the prior applications, Air Toxics Screening Results for Naphthalene

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.

Anita Neace
Authorized Signature

7-25-2025
Date

Anita Neace
Type or Printed Name of Signatory

Human Resources Director
Title of Signatory

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

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: **Link-Belt Cranes, L.P., LLLP, a Delaware Limited Liability Limited Partnership**

KY EIS (AFS) #: **21- 067-00017**

Permit #: **F-20-029**

Agency Interest (AI) ID: **4929**

Date: **7/24/2025**

N.1: Emission Summary - EU 05

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)*
EU 05	Prime Coat Paint Booth (Light Parts Hang Line)	1	05 Gun*		05	05	7.13	VOC	2.27	Mass Balance			16.2	N/A	70.98	N/A
EU 05	Prime Coat Paint Booth (Light Parts Hang Line)	1	05 Gun*	Two Stage filter	05	05	7.13	PM	3.23	Mass Balance	100%	99.99%	23.03	0.0023	100.88	0.0101
EU 05	Prime Coat Paint Booth (Light Parts Hang Line)	1	05 Gun*	Two Stage filter	05	05	7.13	PM10	3.23	Mass Balance	100%	99.99%	23.03	0.0023	100.88	0.0101
EU 05	Prime Coat Paint Booth (Light Parts Hang Line)	1	05 Gun*		05	05	7.13	Methyl Isobutyl Ketone	0.036	Mass Balance			0.257	N/A	1.12	N/A
EU 05	Prime Coat Paint Booth (Light Parts Hang Line)	1	05 Gun*	Two Stage filter	05	05	7.13	Lead	0.000019	Mass Balance	100%	99.99%	1.36E-04	1.36E-08	5.98E-04	5.98E-08
EU 05	Prime Coat Paint Booth (Light Parts Hang Line)	1	05 Gun*		05	05	7.13	Total HAPs	0.036019	Mass Balance			0.26	0.26	1.13	1.12

* Paint used in Gun 01 for PTE is EEA0251

N.1: Emission Summary - EU 06

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)*
EU 06	Top Coat Paint Booth (Light Parts Hang Line)	1	06 Paint Gun 01*		06	06	7.13	VOC	2.56	Mass Balance			18.22	N/A	79.82	N/A
EU 06	Top Coat Paint Booth (Light Parts Hang Line)	1	06 Paint Gun 01*	Two Stage filter	06	06	7.13	PM	2.57	Mass Balance	100%	99.98%	18.30	0.0037	80.14	0.016
EU 06	Top Coat Paint Booth (Light Parts Hang Line)	1	06 Paint Gun 01*	Two Stage filter	06	06	7.13	PM10	2.57	Mass Balance	100%	99.98%	18.30	0.0037	80.14	0.016
EU 06	Top Coat Paint Booth (Light Parts Hang Line)	2	06 Paint Gun 02**		06	06	7.13	VOC	2.41	Mass Balance			17.18	N/A	75.26	N/A
EU 06	Top Coat Paint Booth (Light Parts Hang Line)	2	06 Paint Gun 02**	Two Stage filter	06	06	7.13	PM	2.16	Mass Balance	100%	99.98%	15.39	0.0031	67.42	0.013
EU 06	Top Coat Paint Booth (Light Parts Hang Line)	2	06 Paint Gun 02**	Two Stage filter	06	06	7.13	PM10	2.16	Mass Balance	100%	99.98%	15.39	0.0031	67.42	0.013

* Paint used in Gun 01 for PTE is KPA1424
** Paint used in Gun 02 for PTE is KPR0813

N.1: Emission Summary - EU 07A

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)*
EU 07A	Heavy Part Hang Line Paint Booth	1	07 Gun 01*		07A	07A	7.13	VOC	2.27	Mass Balance			16.2	N/A	70.98	N/A
EU 07A	Heavy Part Hang Line Paint Booth	1	07 Gun 01*	Two Stage filter	07A	07A	7.13	PM	3.23	Mass Balance	100%	99.99%	23.03	0.0023	100.88	0.0101
EU 07A	Heavy Part Hang Line Paint Booth	1	07 Gun 01*	Two Stage filter	07A	07A	7.13	PM10	3.23	Mass Balance	100%	99.99%	23.03	0.0023	100.88	0.0101
EU 07A	Heavy Part Hang Line Paint Booth	1	07 Gun 01*		07A	07A	7.13	Methyl Isobutyl Ketone	0.036	Mass Balance			0.257	N/A	1.12	N/A
EU 07A	Heavy Part Hang Line Paint Booth	1	07 Gun 01*	Two Stage filter	07A	07A	7.13	Lead	0.000019	Mass Balance	100%	99.99%	1.36E-04	1.36E-08	5.98E-04	5.98E-08
EU 07A	Heavy Part Hang Line Paint Booth	1	07 Gun 01*		07A	07A	7.13	Total HAPs	0.036019	Mass Balance			0.26	0.26	1.13	1.12
EU 07A	Heavy Part Hang Line Paint Booth	2	07 Gun 02**		07A	07A	7.13	VOC	2.56	Mass Balance			18.22	N/A	79.82	N/A
EU 07A	Heavy Part Hang Line Paint Booth	2	07 Gun 02**	Two Stage filter	07A	07A	7.13	PM	2.57	Mass Balance	100%	99.99%	18.30	0.0018	80.14	0.0080
EU 07A	Heavy Part Hang Line Paint Booth	2	07 Gun 02**	Two Stage filter	07A	07A	7.13	PM10	2.57	Mass Balance	100%	99.99%	18.30	0.0018	80.14	0.0080

* Paint used in Gun 01 for PTE is EEA0251
** Paint used in Gun 02 for PTE is KPA1424

N.1: Emission Summary - EU 14

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)*
EU 14	South Paint Booth (Final Paint Line)	1	14 Gun 01*		14	14	7.13	VOC	2.27	Mass Balance			16.2	N/A	70.98	N/A
EU 14	South Paint Booth (Final Paint Line)	1	14 Gun 01*	Two Stage filter	14	14	7.13	PM	3.23	Mass Balance	100%	99.99%	23.03	0.0023	100.88	0.0101
EU 14	South Paint Booth (Final Paint Line)	1	14 Gun 01*	Two Stage filter	14	14	7.13	PM10	3.23	Mass Balance	100%	99.99%	23.03	0.0023	100.88	0.0101
EU 14	South Paint Booth (Final Paint Line)	1	14 Gun 01*		14	14	7.13	Methyl Isobutyl Ketone	0.036	Mass Balance			0.2568	N/A	1.12	N/A
EU 14	South Paint Booth (Final Paint Line)	1	14 Gun 01*	Two Stage filter	14	14	7.13	Lead	0.000019	Mass Balance	100%	99.99%	1.36E-04	1.36E-08	5.98E-04	5.98E-08
EU 14	South Paint Booth (Final Paint Line)	1	14 Gun 01*		14	14	7.13	Total HAPs	0.036019	Mass Balance			0.26	0.26	1.13	1.12
EU 14	South Paint Booth (Final Paint Line)	2	14 Gun 02**		14	14	7.13	VOC	2.56	Mass Balance			18.22	N/A	79.82	N/A
EU 14	South Paint Booth (Final Paint Line)	2	14 Gun 02**	Two Stage filter	14	14	7.13	PM	2.57	Mass Balance	100%	99.99%	18.30	0.0018	80.14	0.0080
EU 14	South Paint Booth (Final Paint Line)	2	14 Gun 02**	Two Stage filter	14	14	7.13	PM10	2.57	Mass Balance	100%	99.99%	18.30	0.0018	80.14	0.0080

* Paint used in Gun 01 for PTE is EEA0251
** Paint used in Gun 02 for PTE is KPA1424

N.1: Emission Summary - EU 15

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)*
EU 15	Touch Up Paint Booth (Final Paint Line)	1	15 Gun*		15	15	2.81	VOC	3.32	Mass Balance			9.3	N/A	40.87	N/A
EU 15	Touch Up Paint Booth (Final Paint Line)	1	15 Gun*		15	15	2.81	Ethylbenzene	0.01	Mass Balance			0.03	N/A	0.12	N/A
EU 15	Touch Up Paint Booth (Final Paint Line)	1	15 Gun*		15	15	2.81	Lead	3.69E-09	Mass Balance			1.0E-08	N/A	4.5E-08	N/A
EU 15	Touch Up Paint Booth (Final Paint Line)	1	15 Gun*		15	15	2.81	Total HAPs	0.01	Mass Balance			0.03	N/A	0.12	N/A
EU 15	Touch Up Paint Booth (Final Paint Line)	1	15 Gun*	Two Stage filter**	15	15	2.81	PM	2.63	Mass Balance		0.00%	7.40	7.40	32.39	32.39
EU 15	Touch Up Paint Booth (Final Paint Line)	1	15 Gun*	Two Stage filter**	15	15	2.81	PM10	2.63	Mass Balance		0.00%	7.40	7.40	32.39	32.39

* Paint used in Gun 01 for PTE is KXA0606

** All emission are not directed toward the filter; however when directed towards the filter control efficicency = 99.99%

N.1: Emission Summary - EU 27A

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)*
EU 27A	Prime Coat Paint Booth (Boom Line)	1	27 Gun 01*		27A	27A	7.13	VOC	3.39	Mass Balance			24.17	N/A	105.85	N/A
EU 27A	Prime Coat Paint Booth (Boom Line)	1	27 Gun 01*	Two Stage filter	27A	27A	7.13	PM	3.02	Mass Balance	100%	99.99%	21.51	0.0022	94.23	0.01
EU 27A	Prime Coat Paint Booth (Boom Line)	1	27 Gun 01*	Two Stage filter	27A	27A	7.13	PM10	3.02	Mass Balance	100%	99.99%	21.51	0.0022	94.23	0.01
EU 27A	Prime Coat Paint Booth (Boom Line)	1	27 Gun 01*	Two Stage filter	27A	27A	7.13	Lead	0.0000001	Mass Balance	100%	99.99%	9.60E-07	9.60E-11	4.21E-06	4.21E-10
EU 27A	Prime Coat Paint Booth (Boom Line)	2	27 Gun 02**		27A	27A	7.13	VOC	3.39	Mass Balance			24.17	N/A	105.85	N/A
EU 27A	Prime Coat Paint Booth (Boom Line)	2	27 Gun 02**	Two Stage filter	27A	27A	7.13	PM	3.02	Mass Balance	100%	99.99%	21.51	0.0022	94.23	0.01
EU 27A	Prime Coat Paint Booth (Boom Line)	2	27 Gun 02**	Two Stage filter	27A	27A	7.13	PM10	3.02	Mass Balance	100%	99.99%	21.51	0.0022	94.23	0.01
EU 27A	Prime Coat Paint Booth (Boom Line)	2	27 Gun 02**	Two Stage filter	27A	27A	7.13	Lead	0.0000001	Mass Balance	100%	99.99%	9.60E-07	9.60E-11	4.21E-06	4.21E-10

* Paint used in Gun 01 for PTE is EEY0334
** Paint used in Gun 02 for PTE is EEY0334

N.1: Emission Summary - EU 28A

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)*
EU 28A	Top Coat Paint Booth (Boom Line)	1	28 Gun 01*		28A	28A	7.13	VOC	3.40	Mass Balance			24.3	N/A	106.32	N/A
EU 28A	Top Coat Paint Booth (Boom Line)	1	28 Gun 01*	Two Stage filter	28A	28A	7.13	PM	2.36	Mass Balance	100%	99.99%	16.86	0.0017	73.83	0.0074
EU 28A	Top Coat Paint Booth (Boom Line)	1	28 Gun 01*	Two Stage filter	28A	28A	7.13	PM10	2.36	Mass Balance	100%	99.99%	16.86	0.0017	73.83	0.0074
EU 28A	Top Coat Paint Booth (Boom Line)	2	28 Gun 01*		28A	28A	7.13	Naphthalene	0.0191	Mass Balance			0.14	N/A	0.60	N/A
EU 28A	Top Coat Paint Booth (Boom Line)	2	28 Gun 01*		28A	28A	7.13	Glycol Ethers	0.0956	Mass Balance			0.68	N/A	2.99	N/A
EU 28A	Top Coat Paint Booth (Boom Line)	2	28 Gun 01*		28A	28A	7.13	Total HAPs	0.1147	Mass Balance			0.82	N/A	3.58	N/A
EU 28A	Top Coat Paint Booth (Boom Line)	2	28 Gun 02**		28A	28A	7.13	VOC	3.40	Mass Balance			24.27	N/A	106.32	N/A
EU 28A	Top Coat Paint Booth (Boom Line)	2	28 Gun 02**	Two Stage filter	28A	28A	7.13	PM	2.36	Mass Balance	100%	99.99%	16.86	0.0017	73.83	0.0074
EU 28A	Top Coat Paint Booth (Boom Line)	2	28 Gun 02**	Two Stage filter	28A	28A	7.13	PM10	2.36	Mass Balance	100%	99.99%	16.86	0.0017	73.83	0.0074
EU 28A	Top Coat Paint Booth (Boom Line)	2	28 Gun 02**		28A	28A	7.13	Naphthalene	0.0191	Mass Balance			0.14	N/A	0.60	N/A
EU 28A	Top Coat Paint Booth (Boom Line)	2	28 Gun 02**		28A	28A	7.13	Glycol Ethers	0.0956	Mass Balance			0.68	N/A	2.99	N/A
EU 28A	Top Coat Paint Booth (Boom Line)	2	28 Gun 02**		28A	28A	7.13	Total HAPs	0.1147	Mass Balance			0.82	N/A	3.58	N/A

* Paint used in Gun 01 for PTE is F63AC902
** Paint used in Gun 02 for PTE is F63AC902

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)*
05	Prime Coat Paint Booth (Light Parts Hang Line)	3.5	51.42	1050			18,850	73	39.67
06	EU 06 Top Coat Paint Booth (Light Parts Hang Line)	3.5	50.58	1050			19,920	73	41.50
07A-1	EU 07 Heavy Part Hang Line Paint Booth	4	54	1050			21,195	73	39.25
07A-2	EU 07 Heavy Part Hang Line Paint Booth	4	53.25	1050			16,821	73	31.15
07A-3	EU 07 Heavy Part Hang Line Paint Booth	4	50.58	1050			20,520	73	38
07A-4	EU 07 Heavy Part Hang Line Paint Booth	4	50.58	1050			20,646	73	38.23
14-1	EU14 South Paint Booth (Final Paint Line)	4.5	64.25	1050			43,407	73.00	34.45
14-2	EU14 South Paint Booth (Final Paint Line)	4.5	64.25	1050			31,892	73.00	37.97
14-3	EU14 South Paint Booth (Final Paint Line)	4	60.67	1050			31,570	73.00	37.58
14-4	EU14 South Paint Booth (Final Paint Line)	4	60.67	1050			30,716	73.00	36.57

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)*
14-5	EU14 South Paint Booth (Final Paint Line)	4	60.67	1050			36,456	73.00	28.93
27A-5	Prime Coat Paint Booth (Boom Line)	3.0	57.00	1050			15,787	73.00	37.22
27A-6	Prime Coat Paint Booth (Boom Line)	3.0	57.00	1050			16,982	73.00	40.03
27A-7	Prime Coat Paint Booth (Boom Line)	3.0	57.00	1050			14,819	73.00	34.93
27A-8	Prime Coat Paint Booth (Boom Line)	3.0	57.00	1050			15,223	73.00	35.90
28A-1	Top Coat Paint Booth (Boom Line)	3.0	57.00	1050			13,596	73.00	32.05
28A-2	Top Coat Paint Booth (Boom Line)	3.0	57.00	1050			15,441	73.00	36.40
28A-3	Top Coat Paint Booth (Boom Line)	3.0	57.00	1050			17,067	73.00	40.23
28A-4	Top Coat Paint Booth (Boom Line)	3.0	57.00	1050			15,929	73.00	37.55

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: **Link-Belt Cranes, L.P., LLLP, a Delaware Limited Liability Limited Partnership**
KY EIS (AFS) #: **21-** **067-00017**
Permit #: **F-20-029**
Agency Interest (AI) ID: **4929**
Date: **7/24/2025**

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)
Source-Wide	Source-Wide	401 KAR 52:030	VOC		Facility emissions < 90 tons/yr		Recordkeeping
Source-Wide	Source-Wide	401 KAR 52:030	PM/PM10		Facility emissions < 90 tons/yr		Recordkeeping
Source-Wide	Source-Wide	401 KAR 52:030	Naphthalene		Facility emissions < 963 lbs/yr		Recordkeeping

Section V.2: Monitoring Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Monitored	Description of Monitoring
Source-Wide	Source-Wide	VOC	401 KAR 52:030	Raw material usage	Keep calendar month records of the usage of each coating, solvent, thinner, diluent, and clean up solvent or any other VOC containing material. At the end of each month, monthly emissions and 12 month rolling totals for VOCs are calculated and recorded.
Source-Wide	Source-Wide	PM/PM10	401 KAR 52:030	Raw material usage	Keep calendar month records of units emitting particulate matter. At the end of each month, monthly emission and 12 month rolling total for particulate matter are calculated and recorded.
Source-Wide	Source-Wide	Naphthalene	401 KAR 52:030	Raw material usage	Keep calendar month records of units emitting naphthalene. At the end of each month, monthly emission and 12 month rolling total for naphthalene is calculated and recorded.

Section V.3: Recordkeeping Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Recorded	Description of Recordkeeping
Source-Wide	Source-Wide	VOC	401 KAR 52:030	Raw material usage	Keep calendar month records of the usage of each coating, solvent, thinner, diluent, and clean up solvent or any other VOC containing material.
Source-Wide	Source-Wide	PM/PM10	401 KAR 52:030	Raw material usage	Keep calendar month records of raw materials that result in particulate matter emissions.
Source-Wide	Source-Wide	Naphthalene	401 KAR 52:030	Raw material usage	Keep calendar month records of raw materials that result in naphthalene emissions.

Section V.4: Reporting Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Reported	Description of Reporting
Source-Wide	Source-Wide	VOC	401 KAR 52:030	Raw material usage	Keep calendar month records of the usage of each coating, solvent, thinner, diluent, and clean up solvent or any other VOC containing material. At the end of each month, monthly emissions and 12 month rolling totals for VOCs are calculated and recorded. These records shall be reported for each semi-annual period.
Source-Wide	Source-Wide	PM/PM10	401 KAR 52:030	Raw material usage	Keep calendar month records of the usage of each coating, shot blast media, welding wire, natural gas, diesel fuel or any other material which results in the particulate emissions. At the end of each month, monthly emissions and 12 month rolling totals for particulate matter are calculated and recorded. These records shall be reported for each semi-annual period.
Source-Wide	Source-Wide	Naphthalene	401 KAR 52:030	Raw material usage	Keep calendar month records of the usage of each coating or any other material which results in the naphthalene emissions. At the end of each month, monthly emissions and 12 month rolling totals for naphthalene is calculated and recorded. These records shall be reported for each semi-annual period.

Section V.5: Testing Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Tested	Description of Testing
Source-Wide	Source-Wide	VOC	401 KAR 59:005 Section 2(2) and KAR 50:045 Section 3	N/A	Testing shall be conducted at such times as may be required by the Cabinet in accordance with the Regulations 401 KAR 59:005 Section 2(2) and KAR 50:045 Section 3.
Source-Wide	Source-Wide	PM/PM10	402 KAR 59:005 Section 2(2) and KAR 50:045 Section 3	N/A	Testing shall be conducted at such times as may be required by the Cabinet in accordance with the Regulations 401 KAR 59:005 Section 2(2) and KAR 50:045 Section 3.
Source-Wide	Source-Wide	Naphthalene	403 KAR 59:005 Section 2(2) and KAR 50:045 Section 3	N/A	Testing shall be conducted at such times as may be required by the Cabinet in accordance with the Regulations 401 KAR 59:005 Section 2(2) and KAR 50:045 Section 3.

APPENDIX B

Potential to Emit (PTE) Calculations

Table 1
Potential to Emit (TPY)
Link-Belt Cranes
Lexington, Kentucky

Category	EU#	EP#	Plant Area/ Process Description	10024-97-2 Nitrous Oxide	74-82-8 Methane	124-38-9 Carbon Dioxide	10102-44-0 Nitrogen Dioxides	7440-48-4 Carbon Monoxide	7446-09-5 Sulfur Dioxide	67-56-1 Methanol	50-00-0 Formaldehyde	107-02-8 Acrolein	75-07-0 Acetaldehyde	7440-47-3 Uncontrolled Chromium	7440-47-3 Controlled Chromium	7439-96-5 Uncontrolled Manganese	7439-96-5 Controlled Manganese	7440-02-0 Uncontrolled Nickel	7440-02-0 Controlled Nickel	71-43-2 Benzene	110-54-3 Hexane	108-10-1 Methyl Isobutyl Ketone	91-20-3 Naphthalene	100-41-4 Ethylbenzene	112-07-2 Glycol Ethers	Uncontrolled Lead	Controlled Lead	Uncontrolled Total HAP	Controlled Total HAP	Uncontrolled PM	Uncontrolled PM10	Controlled PM/PM10	VOC
Natural Gas		01	Indirect Heat Exchanger (Unit #2)	0.10	0.11	5497.78	4.58	3.85	0.03																					0.35	0.35	0.35	0.25
Natural Gas		07B	Heavy Hang Line Paint Booth (AMU)	0.08	0.08	4194.29	3.50	2.94	0.02																					0.27	0.27	0.27	0.19
Natural Gas		14A	South Paint Booth (AMU)	0.02	0.02	1261.44	1.05	0.88	0.01																					0.08	0.08	0.08	0.06
Natural Gas		14B	South Paint Booth (AMU)	0.02	0.02	1261.44	1.05	0.88	0.01																					0.08	0.08	0.08	0.06
Natural Gas		14C	South Paint Booth (AMU)	0.02	0.02	1261.44	1.05	0.88	0.01																					0.08	0.08	0.08	0.06
Natural Gas		33	Three Stage Washer	0.03	0.03	1550.52	1.29	1.09	0.01																					0.10	0.10	0.10	0.07
Natural Gas	02	23	Light Hang Line Dry Off Oven	0.03	0.03	1471.68	1.23	1.03	0.01																					0.09	0.09	0.09	0.07
Natural Gas	03	24	Light Hang Line Cure Oven	0.04	0.04	2207.52	1.84	1.55	0.01																					0.14	0.14	0.14	0.10
Natural Gas	04	25	Air Make Up Unit	0.06	0.07	3445.31	2.87	2.41	0.02																					0.22	0.22	0.22	0.16
Natural Gas		31	60 KW Emergency Generator		4.14E-04	19.80	0.15	0.10	1.06E-04	4.50E-07	9.36E-06	9.25E-07	1.51E-06																1.22E-05	1.22E-05	1.78E-05	1.39E-05	0.00	0.02
Weld		02	Welding Bay 1 - Bay 5											2.060	0.299	2.747	0.398	2.747	0.398								7.554	1.095	68.67	68.67	9.96		
Weld		17	Welding Lattice Bay											0.439	0.064	0.586	0.085	0.586	0.085								1.611	0.234	14.65	14.65	2.12		
Weld		29	Welding Bay 10											0.305	0.044	0.406	0.059	0.406	0.059								1.117	0.162	10.15	10.15	1.47		
Weld		35	Welding Prototype Building											0.022	0.003	0.029	0.004	0.029	0.004								0.080	0.012	0.73	0.73	0.11		
Shot		19	Heavy Weld Shot Blast																										0.07	0.07	0.07		
Shot		27	Boom Line Shot Blast																										0.16	0.16	0.16		
Shot		34	Wheel Blast Shot Blast																										0.18	0.18	0.18		
Coating		05	Prime Coat Paint Booth (Light Parts Hang Line)																			1.12				5.98E-04	5.98E-08	1.12	1.12	100.88	100.88	0.010	70.99
Coating		06	Top Coat Paint Booth (Light Parts Hang Line)																										80.13	80.13	0.016	79.83
Coating		06	Top Coat Paint Booth (Light Parts Hang Line)																										67.42	67.42	0.013	75.27
Coating		07A	Heavy Part Hang Line Paint Booth (Applicator #1)																			1.12				5.98E-04	5.98E-08	1.12	1.12	100.88	100.88	0.010	70.99
Coating		07A	Heavy Part Hang Line Paint Booth (Applicator #2)																										80.13	80.13	0.008	79.83
Coating		14	South Paint Booth (Final Paint Line) (Applicator #1)																			1.12				5.98E-04	5.98E-08	1.12	1.12	100.88	100.88	0.010	70.99
Coating		14	South Paint Booth (Final Paint Line) (Applicator #2)																										80.13	80.13	0.008	79.83
Coating		15	Touch Up Paint Booth (Final Paint Line)																					0.12		4.88E-08	4.88E-08	0.12	0.12	32.39	32.39	32.391	40.86
Coating		27A	Prime Coat Paint Booth (Boom Line) (Applicator #1)																							4.21E-06	4.21E-10	4.21E-06	4.21E-10	94.22	94.22	0.009	105.86
Coating		27A	Prime Coat Paint Booth (Boom Line) (Applicator #2)																							4.21E-06	4.21E-10	4.21E-06	4.21E-10	94.22	94.22	0.009	105.86
Coating		28A	Top Coat Paint Booth (Boom Line) (Applicator #1)																				0.60		2.99			3.58	3.58	73.83	73.83	0.007	106.32
Coating		28A	Top Coat Paint Booth (Boom Line) (Applicator #2)																				0.60		2.99			3.58	3.58	73.83	73.83	0.007	106.32
Solvent			Source Wide Clean-up																														3.27
Gasoline		30	Gasoline Tank Dispensing																	4.34E-04	4.43E-04			1.49E-04				1.03E-03	1.03E-03				0.06
Diesel		32	Fire Pump	0.001	0.003	67.461	0.788	0.368	0.082																					0.03	0.03	0.03	2.16
Machining		IA 20	Tanaka Fiber Laser Cutter											2.83E-02	4.10E-03	5.67E-02	8.22E-03	7.07E-02	1.03E-02										0.156	0.023	0.00	0.00	0.00	
			Source Wide Totals (TPY)	0.41	0.43	22238.67	19.40	15.97	0.19	0.00	0.00	0.00	0.00	2.85	0.41	3.82	0.55	3.84	0.56	0.00	0.00	3.36	1.19	0.12	5.97	1.80E-03	2.29E-07	21.17	12.18	1074.98	1074.98	48.01	999.48

Table 2
Hourly Emissions (lbs/hr)
Link-Belt Cranes
Lexington, Kentucky

Category	EU#	EP#	Plant Area/ Process Description	10024-97-2 Nitrous Oxide	74-82-8 Methane	124-38-9 Carbon Dioxide	10102-44-0 Nitrogen Dioxides	7440-48-4 Carbon Monoxide	7446-09-5 Sulfur Dioxide	67-56-1 Methanol	50-00-0 Formaldehyde	107-02-8 Acrolein	75-07-0 Acetaldehyde	7440-47-3 Uncontrolled Chromium	7440-47-3 Controlled Chromium	7439-96-5 Uncontrolled Manganese	7439-96-5 Controlled Manganese	7440-02-0 Uncontrolled Nickel	7440-02-0 Controlled Nickel	71-43-2 Benzene	110-54-3 Hexane	108-10-1 Methyl Isobutyl Ketone	91-20-3 Naphthalene	100-41-4 Ethylbenzene	112-07-2 Glycol Ethers	Uncontrolled Lead	Controlled Lead	Uncontrolled Total HAP	Controlled Total HAP	Uncontrolled PM	Uncontrolled PM10	Controlled PM/PM10	VOC
Natural Gas		01	Indirect Heat Exchanger (Unit #2)	0.023	0.024	1255.2	1.046	0.879	0.006																					0.08	0.08		0.06
Natural Gas		07B	Heavy Hang Line Paint Booth (AMU)	0.018	0.018	957.6	0.798	0.670	0.005																					0.06	0.06		0.04
Natural Gas		14A	South Paint Booth (AMU)	0.005	0.006	288.0	0.240	0.202	0.001																					0.02	0.02		0.01
Natural Gas		14B	South Paint Booth (AMU)	0.005	0.006	288.0	0.240	0.202	0.001																					0.02	0.02		0.01
Natural Gas		14C	South Paint Booth (AMU)	0.005	0.006	288.0	0.240	0.202	0.001																					0.02	0.02		0.01
Natural Gas		33	Three Stage Washer	0.006	0.007	354.0	0.295	0.248	0.002																					0.02	0.02		0.02
Natural Gas	02	23	Light Hang Line Dry Off Oven	0.006	0.006	336.0	0.280	0.235	0.002																					0.02	0.02		0.02
Natural Gas	03	24	Light Hang Line Cure Oven	0.009	0.010	504.0	0.420	0.353	0.003																					0.03	0.03		0.02
Natural Gas	04	25	Air Make Up Unit	0.014	0.015	786.6	0.656	0.551	0.004																					0.05	0.05		0.04
Natural Gas		31	60 KW Emergency Generator		0.002	79.2	0.610	0.401	0.000	1.8E-06	3.7E-05	3.7E-06	6.0E-06																	4.90E-05	4.90E-05	0.00	0.00		0.08
Weld		02	Welding Bay 1 - Bay 5											0.470	0.068	0.627	0.091	0.627	0.091											1.725	0.250	15.68	15.68	2.27	
Weld		17	Welding Lattice Bay											0.100	0.015	0.134	0.019	0.134	0.019											0.368	0.053	3.34	3.34	0.48	
Weld		29	Welding Bay 10											0.070	0.010	0.093	0.013	0.093	0.013											0.255	0.037	2.32	2.32	0.34	
Weld		35	Welding Prototype Building											4.98E-03	7.23E-04	6.64E-03	9.63E-04	6.64E-03	9.63E-04											0.018	0.003	0.17	0.17	0.02	
Shot		19	Heavy Weld Shot Blast																												0.02	0.02	0.02	
Shot		27	Boom Line Shot Blast																												0.04	0.04	0.04	
Shot		34	Wheel Blast Shot Blast																												0.04	0.04	0.04	
Coating		05	Prime Coat Paint Booth (Light Parts Hang Line)																			0.256				1.36E-04	1.36E-08	0.256	0.256	23.03	23.03	0.00	16.21
Coating		06	Top Coat Paint Booth (Light Parts Hang Line)																											18.29	18.29	0.00	18.23
Coating		06	Top Coat Paint Booth (Light Parts Hang Line)																											15.39	15.39	0.00	17.19
Coating		07A	Heavy Part Hang Line Paint Booth (Applicator #1)																			0.256				1.36E-04	1.36E-08	0.256	0.256	23.03	23.03	0.00	16.21
Coating		07A	Heavy Part Hang Line Paint Booth (Applicator #2)																											18.29	18.29	0.00	18.23
Coating		14	South Paint Booth (Final Paint Line) (Applicator #1)																			0.256				1.36E-04	1.36E-08	0.256	0.256	23.03	23.03	0.00	16.21
Coating		14	South Paint Booth (Final Paint Line) (Applicator #2)																											18.29	18.29	0.00	18.23
Coating		15	Touch Up Paint Booth (Final Paint Line)																					0.028		1.11E-08	1.11E-08	0.028	0.028	7.40	7.40	7.40	9.33
Coating		27A	Prime Coat Paint Booth (Boom Line) (Applicator #1)																							9.60E-07	9.60E-11	9.60E-07	9.60E-11	21.51	21.51	0.00	24.17
Coating		27A	Prime Coat Paint Booth (Boom Line) (Applicator #2)																							9.60E-07	9.60E-11	9.60E-07	9.60E-11	21.51	21.51	0.00	24.17
Coating		28A	Top Coat Paint Booth (Boom Line) (Applicator #1)																				0.136		0.682					0.818	0.818	16.86	16.86	0.00	24.27
Coating		28A	Top Coat Paint Booth (Boom Line) (Applicator #2)																				0.136		0.682					0.818	0.818	16.86	16.86	0.00	24.27
Solvent		16	Source Wide Clean-up																															0.75
Gasoline		30	Gasoline Tank Dispensing																	9.90E-05	1.01E-04			3.41E-05					2.34E-04	2.34E-04				0.01
Diesel		32	Fire Pump	0.002	0.011	269.84	3.154	1.471	0.328																							0.13	0.13		0.49
Machining	IA	20	Tanaka Fiber Laser Cutter											0.006	0.001	0.013	0.002	0.016	0.002											0.036	0.005				

Table 3
Emissions Data
Link-Belt Cranes
Lexington, Kentucky

Category	EU#	EP#	Plant Area/ Process Description	Burner Max. Rating	Equipment Capacity	10024-97-2 Nitrous Oxide	74-82-8 Methane	124-38-9 Carbon Dioxide	10102-44-0 Nitrogen Dioxides	7440-48-4 Carbon Monoxide	7446-09-5 Sulfur Dioxide	67-56-1 Methanol	50-00-0 Formaldehyde	107-02-8 Acrolein	75-07-0 Acetaldehyde	7440-47-3 Chromium	7439-96-5 Manganese	7440-02-0 Nickel	71-43-2 Benzene	110-54-3 Hexane	108-10-1 Methyl Isobutyl Ketone	91-20-3 Naphthalene	100-41-4 Ethylbenzene	112-07-2 Glycol Ethers	Lead	TOTAL HAPS	PM	PM10	VOC	Control Equipment	Control Efficiency	Capture Efficiency	EF Ref	Notes
Units				MMBtu/hr	MMcf/hr	lb/MMcf																											
Natural Gas		01	Indirect Heat Exchanger (Unit #2)	10.46	0.0105	2.2	2.3	120000	100	84	0.6																7.6	7.6	5.5				AP42	
Natural Gas		07B	Heavy Hang Line Paint Booth (AMU)	7.98	0.0080	2.2	2.3	120000	100	84	0.6																7.6	7.6	5.5				AP42	
Natural Gas		14A	South Paint Booth (AMU)	2.40	0.0024	2.2	2.3	120000	100	84	0.6																7.6	7.6	5.5				AP42	
Natural Gas		14B	South Paint Booth (AMU)	2.40	0.0024	2.2	2.3	120000	100	84	0.6																7.6	7.6	5.5				AP42	
Natural Gas		14C	South Paint Booth (AMU)	2.40	0.0024	2.2	2.3	120000	100	84	0.6																7.6	7.6	5.5				AP42	
Natural Gas		33	Three Stage Washer	2.95	0.0030	2.2	2.3	120000	100	84	0.6																7.6	7.6	5.5				AP42	
Natural Gas	02	23	Light Hang Line Dry Off Oven	2.80	0.0028	2.2	2.3	120000	100	84	0.6																7.6	7.6	5.5				AP42	
Natural Gas	03	24	Light Hang Line Cure Oven	4.20	0.0042	2.2	2.3	120000	100	84	0.6																7.6	7.6	5.5				AP42	
Natural Gas	04	25	Air Make Up Unit	6.56	0.0066	2.2	2.3	120000	100	84	0.6																7.6	7.6	5.5				AP42	
Natural Gas		31	60 KW Emergency Generator		0.00072		2.3	110000	847	557	0.588	0.0025	0.052	0.005	0.008										0.07	0.10	0.08	118				AP42/EIS	
Units					1,000 lb/hr	lb/1,000 lb																											
Weld		02	Welding Bay 1 - Bay 5		1.038											0.453	0.604	0.604							1.66	15.1	15.1		Filter	95%	90%	AP42	
Weld		17	Welding Lattice Bay		0.222											0.453	0.604	0.604							1.66	15.1	15.1		Filter	95%	90%	AP42	
Weld		29	Welding Bay 10		0.154											0.453	0.604	0.604							1.66	15.1	15.1		Filter	95%	90%	AP42	
Weld		35	Welding Prototype Building		0.011											0.453	0.604	0.604							1.66	15.1	15.1		Filter	95%	90%	AP42	
Shot		19	Heavy Weld Shot Blast		0.024																					0.69	0.69		Filter	99%		POC	Emission Factor included Control Efficiency
Shot		27	Boom Line Shot Blast		0.052																					0.69	0.69		Filter	99%		POC	Emission Factor included Control Efficiency
Shot		34	Wheel Blast Shot Blast		0.060																					0.69	0.69		Filter	99%		POC	Emission Factor included Control Efficiency
Units					Gal/hr	lb/Gal																											
Coating		05	Prime Coat Paint Booth (Light Parts Hang Line)		7.13																0.04				1.91E-05	0.04	3.23	3.23	2.27	2 Stage Filter	99.99%		Mass Balance	
Coating		06	Top Coat Paint Booth (Light Parts Hang Line)		7.13																						2.56	2.56	2.56	2 Stage Filter	99.98%		Mass Balance	
Coating		06	Top Coat Paint Booth (Light Parts Hang Line)		7.13																						2.16	2.16	2.41	3 Stage Filter	99.98%		Mass Balance	
Coating		07A	Heavy Part Hang Line Paint Booth (Applicator #1)		7.13																0.04				1.91E-05	0.04	3.23	3.23	2.27	2 Stage Filter	99.99%		Mass Balance	
Coating		07A	Heavy Part Hang Line Paint Booth (Applicator #2)		7.13																						2.56	2.56	2.56	2 Stage Filter	99.99%		Mass Balance	
Coating		14	South Paint Booth (Final Paint Line) (Applicator #1)		7.13																0.04				1.91E-05	0.04	3.23	3.23	2.27	2 Stage Filter	99.99%		Mass Balance	
Coating		14	South Paint Booth (Final Paint Line) (Applicator #2)		7.13																						2.56	2.56	2.56	2 Stage Filter	99.99%		Mass Balance	
Coating		15	Touch Up Paint Booth (Final Paint Line)		2.81																		0.01		3.96E-09	0.01	2.63	2.629	3.317	2 Stage Filter	0%		Mass Balance	
Coating		27A	Prime Coat Paint Booth (Boom Line) (Applicator #1)		7.13																				1.35E-07	1.35E-07	3.02	3.016	3.388	2 Stage Filter	99.99%		Mass Balance	
Coating		27A	Prime Coat Paint Booth (Boom Line) (Applicator #2)		7.13																				1.35E-07	1.35E-07	3.02	3.02	3.39	2 Stage Filter	99.99%		Mass Balance	
Coating		28A	Top Coat Paint Booth (Boom Line) (Applicator #1)		7.13																	0.02		0.10		0.11	2.36	2.363	3.403	2 Stage Filter	99.99%		Mass Balance	
Coating		28A	Top Coat Paint Booth (Boom Line) (Applicator #2)		7.13																	0.02		0.10		0.11	2.36	2.36	3.40	2 Stage Filter	99.99%		Mass Balance	
Units					lb/hr	lb/lb																											
Solvent		16	Source Wide Clean-up		14.93																								0.05				SDS	Link-Belt used approximately the same amount of Virgin and Distilled solvent to clean the paint guns and lines. The density of the Virgin solvent is 7.42 and the Distilled solvent is 7.51 lb/gal. The VOC content of the Virgin solvent is 43.38% and the Distilled solvent is 32.77% The VOC content of the solvent after cleaning the paint lines before distillation is 37.78% . The VOC content after distillation is 32.77%. Thus the amount of VOC lost during the cleaning and distillation process is 5.01% or .05 lb of VOC/ lb of VOC.
Units					1,000 gal/hr	lb/1,000 gal																											
Gasoline		30	Gasoline Tank Dispensing		1.10E-03														0.09	0.09			0.03		0.21								
Diesel		32	Fire Pump		0.012	0.20	0.90	22675.90	265.00	123.60	27.60															11.10	11.10	41.40				AP42/EIS	
Units					inches/hr	lb/inch																											
Machining		IA 20	Tanaka Fiber Laser Cutter		7800.00											8.28E-07	1.66E-06	2.07E-06							0.00				2 Stage Filter	95.00%	90%	Mass Balance	SDS

Table 4
Paint Booth Emissions Details
Link-Belt Cranes
Lexington, Kentucky

EU	Plant Area/Process Description	Paint	Coating Description	Usage (gal/hr)	Coating Density (lb/gal)	Usage (lb/hr)	Methyl Isobutyl Ketone (%)	Methyl Isobutyl Ketone (lb/gal)	Naphthalene (%)	Naphthalene (lb/gal)	Ethylbenzene (%)	Ethylbenzene (lb/gal)	Glycol Ethers (%)	Glycol Ethers (lb/gal)	Lead (%)	Lead (lb/gal)	Mercury (%)	Mercury lb/gal)	HAP (%)	HAP (lb/gal)	Solids Content (%)	PM (lb/gal) Before Transfer Efficiency	Transfer Efficiency	PM (lb/gal)	VOC Content (%)	VOC (lb/gal)
05	Prime Coat Paint Booth (Light Parts Hang Line)	R-CURE 200 GRAY 2.8 VOC FAST CURE EPOXY PRIMER 10:1	EEA0251	7.13	11.96	85.31	0.30%	0.036	0.00%	0.000	0.00%	0.000	0.00%	0.000	0.0004%	0.0000191	0.00000000%	0.000	0.30%	0.036	67.50%	8.07	60%	3.23	19.00%	2.27
06	Top Coat Paint Booth (Light Parts Hang Line)	R-CURE 800 2.8 VOC LINKBELT GRAY URETHANE	KPA1424	7.13	9.57	68.26	0.00%	0.000	0.00%	0.000	0.00%	0.000	0.00%	0.000	0.0000%	0.0000000	0.00000000%	0.000	0.00%	0.000	67.00%	6.41	60%	2.56	26.70%	2.56
06	Top Coat Paint Booth (Light Parts Hang Line)	R-CURE 800 2.8 VOC SUMITOMO RED URETHANE	KPR0813	7.13	8.73	62.27	0.00%	0.000	0.00%	0.000	0.00%	0.000	0.00%	0.000	0.0000%	0.0000000	0.00000000%	0.000	0.00%	0.000	61.80%	5.40	60%	2.16	27.60%	2.41
07A	Heavy Part Hang Line Paint Booth (Applicator #1)	R-CURE 200 GRAY 2.8 VOC FAST CURE EPOXY PRIMER 10:1	EEA0251	7.13	11.96	85.31	0.30%	0.036	0.00%	0.000	0.00%	0.000	0.00%	0.000	0.0004%	0.0000191	0.00000000%	0.000	0.30%	0.036	67.50%	8.07	60%	3.23	19.00%	2.27
07A	Heavy Part Hang Line Paint Booth (Applicator #2)	R-CURE 800 2.8 VOC LINKBELT GRAY URETHANE	KPA1424	7.13	9.57	68.26	0.00%	0.000	0.00%	0.000	0.00%	0.000	0.00%	0.000	0.0000%	0.0000000	0.00000000%	0.000	0.00%	0.000	67.00%	6.41	60%	2.56	26.70%	2.56
14	South Paint Booth (Final Paint Line) (Applicator #1)	R-CURE 200 GRAY 2.8 VOC FAST CURE EPOXY PRIMER 10:1	EEA0251	7.13	11.96	85.31	0.30%	0.036	0.00%	0.000	0.00%	0.000	0.00%	0.000	0.0004%	0.0000191	0.00000000%	0.000	0.30%	0.036	67.50%	8.07	60%	3.23	19.00%	2.27
14	South Paint Booth (Final Paint Line) (Applicator #2)	R-CURE 800 2.8 VOC LINKBELT GRAY URETHANE	KPA1424	7.13	9.57	68.26	0.00%	0.000	0.00%	0.000	0.00%	0.000	0.00%	0.000	0.0000%	0.0000000	0.00000000%	0.000	0.00%	0.000	67.00%	6.41	60%	2.56	26.70%	2.56
15	Touch Up Paint Booth (Final Paint Line)	R-CURE 550 LINK BELT GRAY 2 TO 1	KXA0606	2.81	9.90	27.84	0.00%	0.000	0.00%	0.000	0.10%	0.010	0.00%	0.000	0.0000%	0.0000000	0.00000000%	0.000	0.10%	0.010	66.40%	6.57	60%	2.63	33.50%	3.32
27A	Prime Coat Paint Booth (Boom Line) (Applicator #1)	R-CURE 500 YELLOW EPOXY PRIMER	EEY0334	7.13	11.22	80.03	0.00%	0.000	0.00%	0.000	0.00%	0.000	0.00%	0.000	0.0000%	0.0000001	0.00000000%	0.000	0.00%	0.000	67.20%	7.54	60%	3.02	30.20%	3.39
27A	Prime Coat Paint Booth (Boom Line) (Applicator #2)	R-CURE 500 YELLOW EPOXY PRIMER	EEY0334	7.13	11.22	80.03	0.00%	0.000	0.00%	0.000	0.00%	0.000	0.00%	0.000	0.0000%	0.0000001	0.00000000%	0.000	0.00%	0.000	67.20%	7.54	60%	3.02	30.20%	3.39
28A	Top Coat Paint Booth (Boom Line) (Applicator #1)	DURASPAR 900 HP 2.8 VOC, Link Belt Slip Grey	F63AC902	7.13	9.56	68.19	0.00%	0.000	0.20%	0.019	0.00%	0.000	1.00%	0.096	0.0000%	0.0000000	0.00000000%	0.000	1.20%	0.115	61.80%	5.91	60%	2.36	35.60%	3.40
28A	Top Coat Paint Booth (Boom Line) (Applicator #2)	DURASPAR 900 HP 2.8 VOC, Link Belt Slip Grey	F63AC902	7.13	9.56	68.19	0.00%	0.000	0.20%	0.019	0.00%	0.000	1.00%	0.096	0.0000%	0.0000000	0.00000000%	0.000	1.20%	0.115	61.80%	5.91	60%	2.36	35.60%	3.40

Table 6
Gasoline, Natural Gas and Diesel Emission Details
Link-Belt Construction Equipment Company
Lexington, Kentucky

EU	EP	Plant Area/ Process Description	Maximum Potential Gasoline Usage 1,000 gal / hr	Gasoline Density (lb/gal)	Emission Factors: Benzene (lb / 1,000 gal)	Ethyl Benzene (lb / 1,000 gal)	Hexane (n) (lb / 1,000 gal)	Toluene (lb / 1,000 gal)	Xylenes (lb / 1,000 gal)	Total HAP (lb / 1,000 gal)	VOC (lb / 1,000 gal)
	30	Gasoline Tank Dispensing	1.10E-03	6.16	9.00E-02	8.10E-03	9.20E-02	1.15E-01	3.10E-02	3.36E-01	1.34E+01

EU	EP	Plant Area/ Process Description	Maximum Potential Natural Gas Usage MMcf/hr	Natural Gas (lb/gal)	Methanol (lb / MMcf)	Formaldehyde (lb / MMcf)	Acrolein (lb / MMcf)	Acetaldehyde (lb / MMcf)	PM10 (lb / MMcf)	PM (lb / MMcf)	Nox (lb / MMcf)	CO (lb / MMcf)	VOC (lb / MMcf)	Sox (lb / MMcf)	Methane (lb / MMcf)	Carbon Dioxide (lb / MMcf)	Nitrogen Oxides (No_x) (lb / MMcf)
	31	Emergency Generator	7.20E-04	6.66	2.50E-03	5.20E-02	5.14E-03	8.40E-03	7.70E-02	9.90E-02	8.47E+02	5.57E+02	1.18E+02	5.88E-01	2.30E+00	1.10E+05	8.47E+02

EU	EP	Plant Area/ Process Description	Maximum Potential Diesel Usage 1,000 gal/hr	Diesel (lb / gal)	NMHC + NOx (lb / 1,000 gal)	PM10 (lb / 1,000 gal)	PM (lb / 1,000 gal)	N_2O (lb / 1,000 gal)	CO (lb / 1,000 gal)	VOC (lb / 1,000 gal)	SO_2 (lb / 1,000 gal)	Methane (lb / 1,000 gal)	Carbon Dioxide (lb / 1,000 gal)
	32	Fire Pump	1.19E-02	6.64	2.65E+02	1.11E+01	1.11E+01	2.00E-01	1.24E+02	4.14E+01	2.76E+01	9.00E-01	2.27E+04

APPENDIX C

Environmental Data Sheets (EDSs)

ENVIRONMENTAL DATA SHEET

(Certified Product Data Sheet)

Date of Preparation
May 8, 2025

16 00 [1285]

PRODUCT NUMBER

EEA0251

PRODUCT NAME

R-CURE 200 GRAY 2.8 VOC FAST CURE EPOXY PRIMER 10:1

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

This document includes all data required by 40 CFR 63.801(a) for a Certified Product Data Sheet under criteria specified in 40 CFR 63.805(a). All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED and rely on information provided to us by our raw material suppliers. Our suppliers often provide an estimated value or range less than a certain upper limit. We calculate MAXIMUM THEORETICAL VALUES using defined values, if provided, or the upper limit reported by our supplier. Additionally, the suppliers' information may include amounts present in the product as unintentional byproducts or impurities. Variations may occur in individual batches due to adjustments made during production.

Hazard Category (for SARA 311.312)

EEA0251 = | Acute | Chronic | Fire |

Product Weight	Specific Gravity	FLASH POINT
12.38 lb/gal	1.49	66 °F PMCC

AS MIXED (as per product data sheet): CATALYZED EEA0251 10:1 CEC0255, UNREDUCED

AS MIXED

Product Weight	Specific Gravity	FLASH POINT
11.96 lb/gal	1.44	52 °F TCC

Volatile Ingredients

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
p-Chlorobenzotrifluoride 98-56-6	N	N	N	N	6	7
Di-isobutyl Ketone 108-83-8	N	N	N	N	5	9
Methyl Isobutyl Ketone 108-10-1	N	Y	Y	Y	0.3	0.6
n-Butyl Acetate 123-86-4	N	Y	N	N	9	16
t-Butyl Acetate 540-88-5	N	Y	N	N	8	14

Regulated Compounds

	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Zinc (as Zn)	N	Y	Y	N	2	
Lead (as Pb)	N	N	Y	N	0.00005	
Zinc Compound	N	N	Y	N	4	

Volatile Ingredients AS MIXED

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
p-Chlorobenzotrifluoride 98-56-6	N	N	N	N	6	6
1-Butanol 71-36-3	N	Y	Y	N	2	3
Di-isobutyl Ketone 108-83-8	N	N	N	N	5	8
Methyl Isobutyl Ketone 108-10-1	N	Y	Y	Y	0.3	0.5
n-Butyl Acetate 123-86-4	N	Y	N	N	9	14
t-Butyl Acetate 540-88-5	N	Y	N	N	8	12

Regulated Compounds AS MIXED

	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Zinc (as Zn)	N	Y	Y	N	2	
Lead (as Pb)	N	N	Y	N	0.00004	
Zinc Compound	N	N	Y	N	4	

Volatile Organic Compounds - U.S. EPA / Canada

	EEA0251		AS MIXED CATALYZED EEA0251 10:1 CEC0255, UNREDUCED	
	LB/Gal	**g/L**	**LB/Gal**	**g/L**
Coating Density	12.38	1483	11.96	1432
	By wt	**By vol**	**By wt**	**By vol**
Total Volatiles	32.9%	53.2%	32.5%	51.1%
Federally exempt solvents				
Water	0.1%	0.1%	0.1%	0.1%
T-Butyl Acetate	8.0%	13.7%	7.5%	12.5%
P-Chlorobenzotrifluoride	6.3%	6.9%	5.9%	6.3%
Organic Volatiles	18.6%	32.4%	19.0%	32.2%
Percent Non-Volatile	67.1%	46.8%	67.5%	48.9%
VOC Content	**LB/Gal**	**g/L**	**LB/Gal**	**g/L**
Total	2.29	275	2.26	271
Less exempt solvents	2.89	347	2.79	335
Of solids	4.90	588	4.63	555
Of solids	0.27 lb/lb	0.27 kg/kg	0.28 lb/lb	0.28 kg/kg
	By wt		**By wt**	
By wt LVP-VOC	18.6%		19.0%	

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **0.52**
AS MIXED Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **0.54**

Volatile Organic Compounds - California

	EEA0251		AS MIXED CATALYZED EEA0251 10:1 CEC0255, UNREDUCED	
	LB/Gal	g/L	LB/Gal	g/L
Coating Density	12.38	1483	11.96	1432
	By wt	By vol	By wt	By vol
Total Volatiles	32.9%	53.2%	32.5%	51.1%
Exempt solvents				
Water	0.1%	0.1%	0.1%	0.1%
P-Chlorobenzotrifluoride	6.3%	6.9%	5.9%	6.3%
Organic Volatiles	26.5%	46.1%	26.5%	44.6%
Percent Non-Volatile	67.1%	46.8%	67.5%	48.9%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	3.28	393	3.16	379
Less exempt solvents	3.53	423	3.38	405
Of solids	7.01	841	6.47	775
Of solids	0.39 lb/lb	0.39 kg/kg	0.39 lb/lb	0.39 kg/kg
	By wt		By wt	
By wt LVP-VOC	26.5%		26.5%	

Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.39**
AS MIXED Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.41**

Volatile Organic Compounds - South Coast Air Quality Management District, California, US

	EEA0251		AS MIXED CATALYZED EEA0251 10:1 CEC0255, UNREDUCED	
	LB/Gal	g/L	LB/Gal	g/L
Coating Density	12.38	1483	11.96	1432
	By wt	By vol	By wt	By vol
Total Volatiles	32.9%	53.2%	32.5%	51.1%
Exempt solvents				
Water	0.1%	0.1%	0.1%	0.1%
P-Chlorobenzotrifluoride	6.3%	6.9%	5.9%	6.3%
Organic Volatiles	26.5%	46.1%	26.5%	44.6%
Percent Non-Volatile	67.1%	46.8%	67.5%	48.9%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	3.28	393	3.16	379
Less exempt solvents	3.53	423	3.38	405
Of solids	7.01	841	6.47	775
Of solids	0.39 lb/lb	0.39 kg/kg	0.39 lb/lb	0.39 kg/kg

Volatile Organic Compounds - EU Directive 2004/42/EC

	EEA0251		AS MIXED CATALYZED EEA0251 10:1 CEC0255, UNREDUCED	
	By wt	By vol	By wt	By vol
Total Volatiles	33.0%	53.4%	32.6%	51.2%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	4.07	488	3.88	466

Volatile Organic Compounds - EU Directive 2010/75/EU

	EEA0251		AS MIXED CATALYZED EEA0251 10:1 CEC0255, UNREDUCED	
	By wt	By vol	By wt	By vol
Total Volatiles	32.9%	53.2%	32.5%	51.1%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	4.06	486	3.87	464

Volatile Organic Compounds - Mexico

	EEA0251		AS MIXED CATALYZED EEA0251 10:1 CEC0255, UNREDUCED	
	LB/Gal	g/L	LB/Gal	g/L
Coating Density	12.38	1483	11.96	1432
	By wt	By vol	By wt	By vol
Total Volatiles	32.9%	53.2%	32.5%	51.1%
Exempt solvents				
Water	0.1%	0.1%	0.1%	0.1%
Organic Volatiles	32.8%	53.1%	32.4%	51.0%
Percent Non-Volatile	67.1%	46.8%	67.5%	48.9%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	4.06	486	3.87	464
Less exempt solvents	4.06	487	3.87	464
Of solids	8.67	1039	7.91	948
Of solids	0.48 lb/lb	0.48 kg/kg	0.47 lb/lb	0.47 kg/kg

Hazardous Air Pollutants (Clean Air Act, Section 112(b))

	EEA0251		AS MIXED CATALYZED EEA0251 10:1 CEC0255, UNREDUCED	
	LB/Gal	kg/L	LB/Gal	kg/L
Volatile HAPS	0.03	0.004	0.03	0.004
Of solids	0.08	0.009	0.07	0.008
Of solids	0.00 lb/lb	0.00 kg/kg	0.00 lb/lb	0.00 kg/kg

Air Quality Data

Density of Organic Solvent Blend

7.65 lb/gal

Photochemically Reactive

Yes

Density of Organic Solvent Blend AS MIXED

7.60 lb/gal

Photochemically Reactive AS MIXED

Yes

Waste Disposal

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

ENVIRONMENTAL DATA SHEET

(Certified Product Data Sheet)

Date of Preparation
Jan 2, 2025

08 00 [0025]

PRODUCT NUMBER

EEY0334

PRODUCT NAME

R-CURE 500 YELLOW EPOXY PRIMER 3 TO 1

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

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Hazard Category (for SARA 311.312)

EEY0334 = | Acute | Chronic | Fire |

Product Weight	Specific Gravity	FLASH POINT
11.74 lb/gal	1.41	5 °F PMCC

AS MIXED (as per product data sheet): CATALYZED EEY0334 3:1 PXC0054, UNREDUCED

AS MIXED

Product Weight	Specific Gravity	FLASH POINT
11.22 lb/gal	1.35	28 °F TCC

Volatile Ingredients

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
2-Propanol 67-63-0	N	N	N	N	2	4
2-Butoxyethanol 111-76-2	N	N	Y - Glycol Ethers (SARA)	N	4	7
Di-isobutyl Ketone 108-83-8	N	N	N	N	15	27
4,6-Dimethyl-2-heptanone 19549-80-5	N	N	N	N	2	4
Methyl Acetate 79-20-9	N	N	N	N	3	5
n-Butyl Acetate 123-86-4	N	Y	N	N	1	2

Regulated Compounds

	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Zinc (as Zn)	N	Y	Y	N	3	
Lead (as Pb)	N	N	Y	N	0.000003	
Zinc Compound	N	N	Y	N	7	
Glycol Ethers (SARA)	N	N	Y	N	4	

Volatile Ingredients AS MIXED

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
2-Propanol 67-63-0	N	N	N	N	4	6
2-Butoxyethanol 111-76-2	N	N	Y - Glycol Ethers (SARA)	N	3	5
Di-isobutyl Ketone 108-83-8	N	N	N	N	12	20
4,6-Dimethyl-2-heptanone 19549-80-5	N	N	N	N	2	3
Methyl n-Amyl Ketone 110-43-0	N	N	N	N	7	10
Methyl Acetate 79-20-9	N	N	N	N	2	4
n-Butyl Acetate 123-86-4	N	Y	N	N	1	2

Regulated Compounds AS MIXED

	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Zinc (as Zn)	N	Y	Y	N	3	
Lead (as Pb)	N	N	Y	N	0.000003	
Zinc Compound	N	N	Y	N	5	
Glycol Ethers (SARA)	N	N	Y	N	3	

Volatile Organic Compounds - U.S. EPA / Canada

	EEY0334		AS MIXED CATALYZED EEY0334 3:1 PXC0054, UNREDUCED	
	LB/Gal	**g/L**	**LB/Gal**	**g/L**
Coating Density	11.74	1406	11.22	1344
	By wt	**By vol**	**By wt**	**By vol**
Total Volatiles	29.7%	50.4%	32.8%	51.6%
Federally exempt solvents				
Water	0.1%	0.2%	0.1%	0.1%
Methyl Acetate	3.1%	4.8%	2.5%	3.6%
Organic Volatiles	26.5%	45.5%	30.2%	48.0%
Percent Non-Volatile	70.3%	49.6%	67.2%	48.4%
VOC Content	**LB/Gal**	**g/L**	**LB/Gal**	**g/L**
Total	3.11	373	3.39	406
Less exempt solvents	3.27	392	3.51	421
Of solids	6.27	751	7.01	840
Of solids	0.37 lb/lb	0.37 kg/kg	0.44 lb/lb	0.44 kg/kg
	By wt		**By wt**	
By wt LVP-VOC	26.5%		30.2%	

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **1.21**
AS MIXED Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **1.17**

Volatile Organic Compounds - California

	EEY0334		AS MIXED CATALYZED EEY0334 3:1 PXC0054, UNREDUCED	
	LB/Gal	g/L	LB/Gal	g/L
Coating Density	11.74	1406	11.22	1344
	By wt	By vol	By wt	By vol
Total Volatiles	29.7%	50.4%	32.8%	51.6%
Exempt solvents				
Water	0.1%	0.2%	0.1%	0.1%
Methyl Acetate	3.1%	4.8%	2.5%	3.6%
Organic Volatiles	26.5%	45.5%	30.2%	48.0%
Percent Non-Volatile	70.3%	49.6%	67.2%	48.4%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	3.11	373	3.39	406
Less exempt solvents	3.27	392	3.51	421
Of solids	6.27	751	7.01	840
Of solids	0.37 lb/lb	0.37 kg/kg	0.44 lb/lb	0.44 kg/kg
	By wt		By wt	
By wt LVP-VOC	26.5%		30.2%	

Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.85**
AS MIXED Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.85**

Volatile Organic Compounds - South Coast Air Quality Management District, California, US

	EEY0334		AS MIXED CATALYZED EEY0334 3:1 PXC0054, UNREDUCED	
	LB/Gal	g/L	LB/Gal	g/L
Coating Density	11.74	1406	11.22	1344
	By wt	By vol	By wt	By vol
Total Volatiles	29.7%	50.4%	32.8%	51.6%
Exempt solvents				
Water	0.1%	0.2%	0.1%	0.1%
Methyl Acetate	3.1%	4.8%	2.5%	3.6%
Organic Volatiles	26.5%	45.5%	30.2%	48.0%
Percent Non-Volatile	70.3%	49.6%	67.2%	48.4%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	3.11	373	3.39	406
Less exempt solvents	3.27	392	3.51	421
Of solids	6.27	751	7.01	840
Of solids	0.37 lb/lb	0.37 kg/kg	0.44 lb/lb	0.44 kg/kg

Volatile Organic Compounds - EU Directive 2004/42/EC

	EEY0334		AS MIXED CATALYZED EEY0334 3:1 PXC0054, UNREDUCED	
	By wt	By vol	By wt	By vol
Total Volatiles	29.7%	50.4%	32.8%	51.6%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	3.48	417	3.66	439

Volatile Organic Compounds - EU Directive 2010/75/EU

	EEY0334		AS MIXED CATALYZED EEY0334 3:1 PXC0054, UNREDUCED	
	By wt	By vol	By wt	By vol
Total Volatiles	29.7%	50.4%	32.8%	51.6%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	3.48	417	3.66	439

Volatile Organic Compounds - Mexico

	EEY0334		AS MIXED CATALYZED EEY0334 3:1 PXC0054, UNREDUCED	
	LB/Gal	g/L	LB/Gal	g/L
Coating Density	11.74	1406	11.22	1344
	By wt	By vol	By wt	By vol
Total Volatiles	29.7%	50.4%	32.8%	51.6%
Exempt solvents				
Water	0.1%	0.2%	0.1%	0.1%
Organic Volatiles	29.6%	50.2%	32.7%	51.5%
Percent Non-Volatile	70.3%	49.6%	67.2%	48.4%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	3.48	417	3.66	439
Less exempt solvents	3.48	417	3.66	439
Of solids	7.01	840	7.58	908
Of solids	0.42 lb/lb	0.42 kg/kg	0.48 lb/lb	0.48 kg/kg

Hazardous Air Pollutants (Clean Air Act, Section 112(b))

	EEY0334		AS MIXED CATALYZED EEY0334 3:1 PXC0054, UNREDUCED	
	LB/Gal	kg/L	LB/Gal	kg/L
Volatile HAPS	0.00	0.000	0.00	0.000
Of solids	0.00	0.000	0.00	0.000
Of solids	0.00 lb/lb	0.00 kg/kg	0.00 lb/lb	0.00 kg/kg

Air Quality Data

Density of Organic Solvent Blend

6.93 lb/gal

Photochemically Reactive

Yes

Density of Organic Solvent Blend AS MIXED

7.11 lb/gal

Photochemically Reactive AS MIXED

Yes

Waste Disposal

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

ENVIRONMENTAL DATA SHEET

(Certified Product Data Sheet)

Date of Preparation
May 10, 2025

09 00 [1305]

PRODUCT NUMBER
F63AC902

PRODUCT NAME
DURASPAR 900 HP 2.8 VOC, Link Belt Slip Grey

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

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Hazard Category (for SARA 311.312)
F63AC902 = | Acute | Chronic | Fire |

Product Weight	Specific Gravity	FLASH POINT
9.56 lb/gal	1.15	90 °F PMCC

Volatile Ingredients

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Heavy Aromatic Naphtha 64742-94-5	N	N	N	N	2	2
Naphthalene 91-20-3	N	Y	Y	Y	0.2	0.2
Methyl n-Amyl Ketone 110-43-0	N	N	N	N	14	19
n-Butyl Acetate 123-86-4	N	Y	N	N	14	18
t-Butyl Acetate 540-88-5	N	Y	N	N	2	3
2-Butoxyethyl Acetate 112-07-2	N	N	Y - Glycol Ethers (SARA)	Y - Glycol Ethers (HAPS)	1	1
Oxo-Decyl Acetate 108419-34-7	N	N	N	N	3	4

Regulated Compounds

	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Glycol Ethers (SARA)	N	N	Y	N	1	
Glycol Ethers (HAPS)	N	N	N	Y	1	

Volatile Organic Compounds - U.S. EPA / Canada

	F63AC902	
	LB/Gal	g/L
Coating Density	9.56	1145
	By wt	By vol
Total Volatiles	38.2%	51.4%
Federally exempt solvents		
Water	0.1%	0.1%
T-Butyl Acetate	2.4%	3.2%
Organic Volatiles	35.6%	48.0%
Percent Non-Volatile	61.8%	48.6%
VOC Content	LB/Gal	g/L
Total	3.40	407
Less exempt solvents	3.51	421
Of solids	6.99	837
Of solids	0.57 lb/lb	0.57 kg/kg
	By wt	
By wt LVP-VOC	30.8%	

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **1.32**

Volatile Organic Compounds - California

	F63AC902	
	LB/Gal	g/L
Coating Density	9.56	1145
	By wt	By vol
Total Volatiles	38.2%	51.4%
Exempt solvents		
Water	0.1%	0.1%
Organic Volatiles	38.0%	51.2%
Percent Non-Volatile	61.8%	48.6%
VOC Content	LB/Gal	g/L
Total	3.63	435
Less exempt solvents	3.63	436
Of solids	7.47	895
Of solids	0.61 lb/lb	0.61 kg/kg
	By wt	
By wt LVP-VOC	33.2%	

Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.61**

Volatile Organic Compounds - South Coast Air Quality Management District, California, US

	F63AC902	
	LB/Gal	g/L
Coating Density	9.56	1145
	By wt	By vol
Total Volatiles	38.2%	51.4%
Exempt solvents		
Water	0.1%	0.1%
Organic Volatiles	38.0%	51.2%
Percent Non-Volatile	61.8%	48.6%
VOC Content	LB/Gal	g/L
Total	3.63	435
Less exempt solvents	3.63	436
Of solids	7.47	895
Of solids	0.61 lb/lb	0.61 kg/kg

Volatile Organic Compounds - EU Directive 2004/42/EC

	F63AC902	
	By wt	By vol
Total Volatiles	39.1%	52.4%
VOC Content	LB/Gal	g/L
Total	3.72	446

Volatile Organic Compounds - EU Directive 2010/75/EU

	F63AC902	
	By wt	By vol
Total Volatiles	35.1%	47.4%
VOC Content	LB/Gal	g/L
Total	3.34	400

Volatile Organic Compounds - Mexico

	F63AC902	
	LB/Gal	g/L
Coating Density	9.56	1145
	By wt	By vol
Total Volatiles	38.2%	51.4%
Exempt solvents		
Water	0.1%	0.1%
Organic Volatiles	38.0%	51.2%
Percent Non-Volatile	61.8%	48.6%
VOC Content	LB/Gal	g/L
Total	3.63	435
Less exempt solvents	3.63	436
Of solids	7.47	895
Of solids	0.61 lb/lb	0.61 kg/kg

Hazardous Air Pollutants (Clean Air Act, Section 112(b))

	F63AC902	
	LB/Gal	kg/L
Volatile HAPS	0.13	0.015
Of solids	0.26	0.032
Of solids	0.02 lb/lb	0.02 kg/kg

Air Quality Data

Density of Organic Solvent Blend

7.09 lb/gal

Photochemically Reactive

No

Waste Disposal

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

ENVIRONMENTAL DATA SHEET

(Certified Product Data Sheet)

Date of Preparation
Jun 23, 2025

23 00 [1295]

PRODUCT NUMBER

KPA1424

PRODUCT NAME

R-CURE 800 2.8 VOC LINKBELT GRAY URETHANE 3 TO 1

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

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Hazard Category (for SARA 311.312)

KPA1424 = | Acute | Chronic | Fire |

Product Weight	Specific Gravity	FLASH POINT
9.83 lb/gal	1.18	92 °F PMCC

AS MIXED (as per product data sheet): CATALYZED KPA1424 3:1 CTC1106, UNREDUCED

AS MIXED

Product Weight	Specific Gravity	FLASH POINT
9.57 lb/gal	1.15	58 °F TCC

Volatile Ingredients

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Distillates, hydrotreated light 64742-47-8	N	N	N	N	2	2
Light Aromatic Hydrocarbons 64742-95-6	N	N	N	N	1	2
Di-isobutyl Ketone 108-83-8	N	N	N	N	9	13
4,6-Dimethyl-2-heptanone 19549-80-5	N	N	N	N	1	2
2,4-Pentanedione 123-54-6	N	N	N	N	3	4
Ethyl 3-Ethoxypropionate 763-69-9	N	N	N	N	2	2
n-Butyl Acetate 123-86-4	N	Y	N	N	8	11
t-Butyl Acetate 540-88-5	N	Y	N	N	2	3
Oxo-Decyl Acetate 108419-34-7	N	N	N	N	5	6

Volatile Ingredients AS MIXED

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Distillates, hydrotreated light 64742-47-8	N	N	N	N	1	2
Light Aromatic Hydrocarbons 64742-95-6	N	N	N	N	2	2
Di-isobutyl Ketone 108-83-8	N	N	N	N	7	10
4,6-Dimethyl-2-heptanone 19549-80-5	N	N	N	N	1	1
2,4-Pentanedione 123-54-6	N	N	N	N	3	3
Ethyl 3-Ethoxypropionate 763-69-9	N	N	N	N	1	2
n-Butyl Acetate 123-86-4	N	Y	N	N	7	10
t-Butyl Acetate 540-88-5	N	Y	N	N	6	8
Oxo-Decyl Acetate 108419-34-7	N	N	N	N	4	5

Volatile Organic Compounds - U.S. EPA / Canada

	KPA1424		AS MIXED CATALYZED KPA1424 3:1 CTC1106, UNREDUCED	
	LB/Gal	**g/L**	**LB/Gal**	**g/L**
Coating Density	9.83	1178	9.57	1146
	By wt	**By vol**	**By wt**	**By vol**
Total Volatiles	34.3%	47.7%	33.0%	44.6%
Federally exempt solvents				
Water	0.2%	0.2%	0.1%	0.1%
T-Butyl Acetate	1.9%	2.6%	6.2%	8.2%
Organic Volatiles	32.3%	45.0%	26.7%	36.2%
Percent Non-Volatile	65.7%	52.3%	67.0%	55.4%
VOC Content	**LB/Gal**	**g/L**	**LB/Gal**	**g/L**
Total	3.17	380	2.55	306
Less exempt solvents	3.26	391	2.78	334
Of solids	6.07	728	4.60	552
Of solids	0.49 lb/lb	0.49 kg/kg	0.39 lb/lb	0.39 kg/kg
	By wt		**By wt**	
By wt LVP-VOC	27.6%		23.1%	

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **2.31**
AS MIXED Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **1.85**

Volatile Organic Compounds - California

	KPA1424		AS MIXED CATALYZED KPA1424 3:1 CTC1106, UNREDUCED	
	LB/Gal	g/L	LB/Gal	g/L
Coating Density	9.83	1178	9.57	1146
	By wt	By vol	By wt	By vol
Total Volatiles	34.3%	47.7%	33.0%	44.6%
Exempt solvents				
Water	0.2%	0.2%	0.1%	0.1%
Organic Volatiles	34.2%	47.6%	32.9%	44.4%
Percent Non-Volatile	65.7%	52.3%	67.0%	55.4%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	3.36	402	3.14	377
Less exempt solvents	3.36	403	3.15	377
Of solids	6.42	770	5.67	680
Of solids	0.52 lb/lb	0.52 kg/kg	0.49 lb/lb	0.49 kg/kg
	By wt		By wt	
By wt LVP-VOC	29.5%		29.2%	

Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.91**
AS MIXED Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.77**

Volatile Organic Compounds - South Coast Air Quality Management District, California, US

	KPA1424		AS MIXED CATALYZED KPA1424 3:1 CTC1106, UNREDUCED	
	LB/Gal	g/L	LB/Gal	g/L
Coating Density	9.83	1178	9.57	1146
	By wt	By vol	By wt	By vol
Total Volatiles	34.3%	47.7%	33.0%	44.6%
Exempt solvents				
Water	0.2%	0.2%	0.1%	0.1%
Organic Volatiles	34.2%	47.6%	32.9%	44.4%
Percent Non-Volatile	65.7%	52.3%	67.0%	55.4%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	3.36	402	3.14	377
Less exempt solvents	3.36	403	3.15	377
Of solids	6.42	770	5.67	680
Of solids	0.52 lb/lb	0.52 kg/kg	0.49 lb/lb	0.49 kg/kg

Volatile Organic Compounds - EU Directive 2004/42/EC

	KPA1424		AS MIXED CATALYZED KPA1424 3:1 CTC1106, UNREDUCED	
	By wt	By vol	By wt	By vol
Total Volatiles	34.3%	47.7%	33.0%	44.6%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	3.36	402	3.14	377

Volatile Organic Compounds - EU Directive 2010/75/EU

	KPA1424		AS MIXED CATALYZED KPA1424 3:1 CTC1106, UNREDUCED	
	By wt	By vol	By wt	By vol
Total Volatiles	29.6%	41.3%	29.4%	39.8%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	2.89	347	2.79	335

Volatile Organic Compounds - Mexico

	KPA1424		AS MIXED CATALYZED KPA1424 3:1 CTC1106, UNREDUCED	
	LB/Gal	g/L	LB/Gal	g/L
Coating Density	9.83	1178	9.57	1146
	By wt	By vol	By wt	By vol
Total Volatiles	34.3%	47.7%	33.0%	44.6%
Exempt solvents				
Water	0.2%	0.2%	0.1%	0.1%
Organic Volatiles	34.2%	47.6%	32.9%	44.4%
Percent Non-Volatile	65.7%	52.3%	67.0%	55.4%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	3.36	402	3.14	377
Less exempt solvents	3.36	403	3.15	377
Of solids	6.42	770	5.67	680
Of solids	0.52 lb/lb	0.52 kg/kg	0.49 lb/lb	0.49 kg/kg

Hazardous Air Pollutants (Clean Air Act, Section 112(b))

	KPA1424		AS MIXED CATALYZED KPA1424 3:1 CTC1106, UNREDUCED	
	LB/Gal	kg/L	LB/Gal	kg/L
Volatile HAPS	0.00	0.000	0.00	0.000
Of solids	0.00	0.000	0.00	0.000
Of solids	0.00 lb/lb	0.00 kg/kg	0.00 lb/lb	0.00 kg/kg

Air Quality Data

Density of Organic Solvent Blend

7.07 lb/gal

Photochemically Reactive

Yes

Density of Organic Solvent Blend AS MIXED

7.08 lb/gal

Photochemically Reactive AS MIXED

Yes

Waste Disposal

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

ENVIRONMENTAL DATA SHEET

(Certified Product Data Sheet)

Date of Preparation
May 9, 2025

28 00 [1295]

PRODUCT NUMBER

KPR0813

PRODUCT NAME

R-CURE 800 2.8 VOC SUMITOMO RED URETHANE 3 TO 1

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

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Hazard Category (for SARA 311.312)

KPR0813 = | Acute | Chronic | Fire |

Product Weight	Specific Gravity	FLASH POINT
8.71 lb/gal	1.05	86 °F PMCC

AS MIXED (as per product data sheet): CATALYZED KPR0813 3:1 CTC1106, UNREDUCED

AS MIXED

Product Weight	Specific Gravity	FLASH POINT
8.73 lb/gal	1.05	53 °F TCC

Volatile Ingredients

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Di-isobutyl Ketone 108-83-8	N	N	N	N	8	10
4,6-Dimethyl-2-heptanone 19549-80-5	N	N	N	N	1	2
2,4-Pentanedione 123-54-6	N	N	N	N	2	3
Ethyl 3-Ethoxypropionate 763-69-9	N	N	N	N	2	2
n-Butyl Acetate 123-86-4	N	Y	N	N	14	16
t-Butyl Acetate 540-88-5	N	Y	N	N	7	9
Oxo-Decyl Acetate 108419-34-7	N	N	N	N	5	6

Volatile Ingredients AS MIXED

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Di-isobutyl Ketone **108-83-8**	N	N	N	N	6	8
2,4-Pentanedione **123-54-6**	N	N	N	N	2	2
Ethyl 3-Ethoxypropionate **763-69-9**	N	N	N	N	1	1
n-Butyl Acetate **123-86-4**	N	Y	N	N	11	13
t-Butyl Acetate **540-88-5**	N	Y	N	N	11	13
Oxo-Decyl Acetate **108419-34-7**	N	N	N	N	3	4

Volatile Organic Compounds - U.S. EPA / Canada

	KPR0813		AS MIXED CATALYZED KPR0813 3:1 CTC1106, UNREDUCED	
	LB/Gal	**g/L**	**LB/Gal**	**g/L**
Coating Density	8.71	1043	8.73	1045
	By wt	**By vol**	**By wt**	**By vol**
Total Volatiles	41.5%	49.9%	38.2%	46.2%
Federally exempt solvents				
Water	0.0%	0.0%	0.0%	0.0%
T-Butyl Acetate	7.2%	8.7%	10.6%	12.8%
Organic Volatiles	34.2%	41.2%	27.6%	33.4%
Percent Non-Volatile	58.5%	50.1%	61.8%	53.8%
VOC Content	**LB/Gal**	**g/L**	**LB/Gal**	**g/L**
Total	2.98	357	2.40	288
Less exempt solvents	3.26	391	2.76	331
Of solids	5.95	713	4.47	536
Of solids	0.58 lb/lb	0.58 kg/kg	0.44 lb/lb	0.44 kg/kg
	By wt		**By wt**	
By wt LVP-VOC	29.2%		23.9%	

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **2.13**
AS MIXED Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **1.67**

Volatile Organic Compounds - California

	KPR0813		AS MIXED CATALYZED KPR0813 3:1 CTC1106, UNREDUCED	
	LB/Gal	**g/L**	**LB/Gal**	**g/L**
Coating Density	8.71	1043	8.73	1045
	By wt	**By vol**	**By wt**	**By vol**
Total Volatiles	41.5%	49.9%	38.2%	46.2%
Exempt solvents				
Water	0.0%	0.0%	0.0%	0.0%
Organic Volatiles	41.4%	49.9%	38.2%	46.2%
Percent Non-Volatile	58.5%	50.1%	61.8%	53.8%
VOC Content	**LB/Gal**	**g/L**	**LB/Gal**	**g/L**
Total	3.60	432	3.33	399
Less exempt solvents	3.60	432	3.33	399
Of solids	7.20	863	6.19	742
Of solids	0.70 lb/lb	0.70 kg/kg	0.61 lb/lb	0.61 kg/kg
	By wt		**By wt**	
By wt LVP-VOC	36.4%		34.4%	

Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.79**
AS MIXED Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.67**

Volatile Organic Compounds - South Coast Air Quality Management District, California, US

	KPR0813		AS MIXED CATALYZED KPR0813 3:1 CTC1106, UNREDUCED	
	LB/Gal	**g/L**	**LB/Gal**	**g/L**
Coating Density	8.71	1043	8.73	1045
	By wt	**By vol**	**By wt**	**By vol**
Total Volatiles	41.5%	49.9%	38.2%	46.2%
Exempt solvents				
Water	0.0%	0.0%	0.0%	0.0%
Organic Volatiles	41.4%	49.9%	38.2%	46.2%
Percent Non-Volatile	58.5%	50.1%	61.8%	53.8%
VOC Content	**LB/Gal**	**g/L**	**LB/Gal**	**g/L**
Total	3.60	432	3.33	399
Less exempt solvents	3.60	432	3.33	399
Of solids	7.20	863	6.19	742
Of solids	0.70 lb/lb	0.70 kg/kg	0.61 lb/lb	0.61 kg/kg

Volatile Organic Compounds - EU Directive 2004/42/EC

	KPR0813		AS MIXED CATALYZED KPR0813 3:1 CTC1106, UNREDUCED	
	By wt	**By vol**	**By wt**	**By vol**
Total Volatiles	41.5%	49.9%	38.2%	46.2%
VOC Content	**LB/Gal**	**g/L**	**LB/Gal**	**g/L**
Total	3.60	432	3.33	399

Volatile Organic Compounds - EU Directive 2010/75/EU

	KPR0813		AS MIXED CATALYZED KPR0813 3:1 CTC1106, UNREDUCED	
	By wt	**By vol**	**By wt**	**By vol**
Total Volatiles	36.8%	44.3%	34.7%	42.0%
VOC Content	**LB/Gal**	**g/L**	**LB/Gal**	**g/L**
Total	3.20	383	3.02	362

Volatile Organic Compounds - Mexico

	KPR0813		AS MIXED CATALYZED KPR0813 3:1 CTC1106, UNREDUCED	
	LB/Gal	**g/L**	**LB/Gal**	**g/L**
Coating Density	8.71	1043	8.73	1045
	By wt	**By vol**	**By wt**	**By vol**
Total Volatiles	41.5%	49.9%	38.2%	46.2%
Exempt solvents				
Water	0.0%	0.0%	0.0%	0.0%
Organic Volatiles	41.4%	49.9%	38.2%	46.2%
Percent Non-Volatile	58.5%	50.1%	61.8%	53.8%
VOC Content	**LB/Gal**	**g/L**	**LB/Gal**	**g/L**
Total	3.60	432	3.33	399
Less exempt solvents	3.60	432	3.33	399
Of solids	7.20	863	6.19	742
Of solids	0.70 lb/lb	0.70 kg/kg	0.61 lb/lb	0.61 kg/kg

Hazardous Air Pollutants (Clean Air Act, Section 112(b))

	KPR0813		AS MIXED CATALYZED KPR0813 3:1 CTC1106, UNREDUCED	
	LB/Gal	kg/L	LB/Gal	kg/L
Volatile HAPS	0.00	0.000	0.00	0.000
Of solids	0.00	0.000	0.00	0.000
Of solids	0.00 lb/lb	0.00 kg/kg	0.00 lb/lb	0.00 kg/kg

Air Quality Data

Density of Organic Solvent Blend

7.23 lb/gal

Photochemically Reactive

Yes

Density of Organic Solvent Blend AS MIXED

7.21 lb/gal

Photochemically Reactive AS MIXED

Yes

Waste Disposal

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

ENVIRONMENTAL DATA SHEET

(Certified Product Data Sheet)

Date of Preparation
May 8, 2025

16 00 [1285]

PRODUCT NUMBER

KXA0606

PRODUCT NAME

R-CURE 550 LINK BELT GRAY 2 TO 1

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

This document includes all data required by 40 CFR 63.801(a) for a Certified Product Data Sheet under criteria specified in 40 CFR 63.805(a). All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED and rely on information provided to us by our raw material suppliers. Our suppliers often provide an estimated value or range less than a certain upper limit. We calculate MAXIMUM THEORETICAL VALUES using defined values, if provided, or the upper limit reported by our supplier. Additionally, the suppliers' information may include amounts present in the product as unintentional byproducts or impurities. Variations may occur in individual batches due to adjustments made during production.

Hazard Category (for SARA 311.312)

KXA0606 = | Acute | Chronic | Fire |

Product Weight	Specific Gravity	FLASH POINT
10.03 lb/gal	1.21	80 °F PMCC

AS MIXED (as per product data sheet): CATALYZED KXA0606 2:1 PXC0054, UNREDUCED

AS MIXED

Product Weight	Specific Gravity	FLASH POINT
9.90 lb/gal	1.19	76 °F TCC

Volatile Ingredients

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Ethylbenzene 100-41-4	N	Y	Y	Y	0.1	0.1
Di-isobutyl Ketone 108-83-8	N	N	N	N	2	3
Methyl n-Amyl Ketone 110-43-0	N	N	N	N	11	16
n-Butyl Acetate 123-86-4	N	Y	N	N	14	19

Regulated Compounds

	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
Lead (as Pb)	N	N	Y	N	0.0000001	

Volatile Ingredients AS MIXED

Chemical / Compound	SARA 302 EHS	CERCLA	SARA 313 TC	HAPS 112	% by Weight	% by Volume
2-Propanol 67-63-0	N	N	N	N	3	4
Di-isobutyl Ketone 108-83-8	N	N	N	N	1	2
Methyl n-Amyl Ketone 110-43-0	N	N	N	N	17	24
n-Butyl Acetate 123-86-4	N	Y	N	N	9	13

Volatile Organic Compounds - U.S. EPA / Canada

	KXA0606		AS MIXED CATALYZED KXA0606 2:1 PXC0054, UNREDUCED	
	LB/Gal	**g/L**	**LB/Gal**	**g/L**
Coating Density	10.03	1201	9.90	1186
	By wt	**By vol**	**By wt**	**By vol**
Total Volatiles	28.8%	40.9%	33.6%	45.8%
Federally exempt solvents				
Water	0.2%	0.2%	0.1%	0.1%
Organic Volatiles	28.6%	40.7%	33.5%	45.6%
Percent Non-Volatile	71.2%	59.1%	66.4%	54.2%
VOC Content	**LB/Gal**	**g/L**	**LB/Gal**	**g/L**
Total	2.86	343	3.31	397
Less exempt solvents	2.87	344	3.32	397
Of solids	4.85	581	6.11	732
Of solids	0.40 lb/lb	0.40 kg/kg	0.50 lb/lb	0.50 kg/kg
	By wt		**By wt**	
By wt LVP-VOC	28.6%		33.5%	

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **0.58**
AS MIXED Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **0.72**

Volatile Organic Compounds - California

	KXA0606		AS MIXED CATALYZED KXA0606 2:1 PXC0054, UNREDUCED	
	LB/Gal	**g/L**	**LB/Gal**	**g/L**
Coating Density	10.03	1201	9.90	1186
	By wt	**By vol**	**By wt**	**By vol**
Total Volatiles	28.8%	40.9%	33.6%	45.8%
Exempt solvents				
Water	0.2%	0.2%	0.1%	0.1%
Organic Volatiles	28.6%	40.7%	33.5%	45.6%
Percent Non-Volatile	71.2%	59.1%	66.4%	54.2%
VOC Content	**LB/Gal**	**g/L**	**LB/Gal**	**g/L**
Total	2.86	343	3.31	397
Less exempt solvents	2.87	344	3.32	397
Of solids	4.85	581	6.11	732
Of solids	0.40 lb/lb	0.40 kg/kg	0.50 lb/lb	0.50 kg/kg
	By wt		**By wt**	
By wt LVP-VOC	28.6%		33.5%	

Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.49**
AS MIXED Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.61**

Volatile Organic Compounds - South Coast Air Quality Management District, California, US

	KXA0606		AS MIXED CATALYZED KXA0606 2:1 PXC0054, UNREDUCED	
	LB/Gal	g/L	LB/Gal	g/L
Coating Density	10.03	1201	9.90	1186
	By wt	By vol	By wt	By vol
Total Volatiles	28.8%	40.9%	33.6%	45.8%
Exempt solvents				
Water	0.2%	0.2%	0.1%	0.1%
Organic Volatiles	28.6%	40.7%	33.5%	45.6%
Percent Non-Volatile	71.2%	59.1%	66.4%	54.2%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	2.86	343	3.31	397
Less exempt solvents	2.87	344	3.32	397
Of solids	4.85	581	6.11	732
Of solids	0.40 lb/lb	0.40 kg/kg	0.50 lb/lb	0.50 kg/kg

Volatile Organic Compounds - EU Directive 2004/42/EC

	KXA0606		AS MIXED CATALYZED KXA0606 2:1 PXC0054, UNREDUCED	
	By wt	By vol	By wt	By vol
Total Volatiles	28.8%	40.9%	34.1%	46.3%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	2.86	343	3.36	402

Volatile Organic Compounds - EU Directive 2010/75/EU

	KXA0606		AS MIXED CATALYZED KXA0606 2:1 PXC0054, UNREDUCED	
	By wt	By vol	By wt	By vol
Total Volatiles	28.8%	40.9%	33.6%	45.8%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	2.86	343	3.31	397

Volatile Organic Compounds - Mexico

	KXA0606		AS MIXED CATALYZED KXA0606 2:1 PXC0054, UNREDUCED	
	LB/Gal	g/L	LB/Gal	g/L
Coating Density	10.03	1201	9.90	1186
	By wt	By vol	By wt	By vol
Total Volatiles	28.8%	40.9%	33.6%	45.8%
Exempt solvents				
Water	0.2%	0.2%	0.1%	0.1%
Organic Volatiles	28.6%	40.7%	33.5%	45.6%
Percent Non-Volatile	71.2%	59.1%	66.4%	54.2%
VOC Content	LB/Gal	g/L	LB/Gal	g/L
Total	2.86	343	3.31	397
Less exempt solvents	2.87	344	3.32	397
Of solids	4.85	581	6.11	732
Of solids	0.40 lb/lb	0.40 kg/kg	0.50 lb/lb	0.50 kg/kg

Hazardous Air Pollutants (Clean Air Act, Section 112(b))

	KXA0606		AS MIXED CATALYZED KXA0606 2:1 PXC0054, UNREDUCED	
	LB/Gal	kg/L	LB/Gal	kg/L
Volatile HAPS	0.01	0.001	0.00	0.000
Of solids	0.01	0.002	0.00	0.000
Of solids	0.00 lb/lb	0.00 kg/kg	0.00 lb/lb	0.00 kg/kg

Air Quality Data

Density of Organic Solvent Blend

7.03 lb/gal

Photochemically Reactive

No

Density of Organic Solvent Blend AS MIXED

7.27 lb/gal

Photochemically Reactive AS MIXED

No

Waste Disposal

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

APPENDIX D

Permit Markup

Commonwealth of Kentucky
Energy and Environment Cabinet
Department for Environmental Protection
Division for Air Quality
300 Sower Boulevard, 2nd Floor
Frankfort, Kentucky 40601
(502) 564-3999

Final

AIR QUALITY PERMIT
Issued under 401 KAR 52:030

Permittee Name:	**Link-Belt Cranes, L.P., LLLP**
Mailing Address:	**2651 Palumbo Drive** **Lexington, KY 40509**
Source Name:	**Link-Belt Cranes, L.P., LLLP**
Mailing Address:	**2651 Palumbo Drive** **Lexington, KY 40509**
Source Location:	**Same as above**
Permit ID:	**F-20-029**
Agency Interest #:	**4929**
Activity ID:	**APE20200001**
Review Type:	**Conditional Major, Operating**
Source ID:	**21-067-00017**
Regional Office:	**Frankfort Regional Office** **300 Sower Boulevard 1st Floor** **Frankfort, KY 40601** **(502) 564-3358**
County:	**Fayette**
Application Complete Date:	**July 20, 2020**
Issuance Date:	**January 24, 2021**
Expiration Date:	**January 24, 2026**

Rick J. Shewekah

For Melissa Duff, Director
Division for Air Quality

Version 10/16/13

~~Red Text~~ = removed from permit
Blue Text = added to permit

TABLE OF CONTENTS

	Permit type	**Activity#**	**Complete Date**	**Issuance Date**	**Summary of Action**
F-20-029	**Renewal**	**APE20200001**	**7/20/2020**	**1/24/2021**	**Renewal Permit**

SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Energy and Environment Cabinet (Cabinet) hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes (KRS) Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first submitting a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:030, Federally-enforceable permits for non-major sources.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Cabinet or any other federal, state, or local agency.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

Emission Points Number	Name	Description of Affected Facility	Control Equipments	Applicable Regulation
EP # 05	Prime Coat Paint Booth (Light Parts Hang Line)	Application of primer to miscellaneous metal parts used in crane assembly utilizing one electrostatic air spray gun. Estimated transfer efficiency 60% Date of Commenced: August 1999, Location: Main building	2 stage filter (Panel filter) with 99% estimated removal efficiency	401 KAR 59:010 401 KAR 63:021
EP # 06	Top Coat Paint Booth (Light Parts Hang Line)	Application of primer and final coats to miscellaneous metal parts used in crane assembly utilizing two air spray guns. Estimated transfer efficiency between 40% and 60% Date of Commenced: August 1999, Location: Main building	2 stage filter (Panel filter) with 99% estimated removal efficiency	401 KAR 59:010 401 KAR 63:021
EP# 07A	Heavy Part Hang Line Paint Booth	Application of primer and final coats to miscellaneous metal parts used in crane assembly utilizing two spray guns. Estimated transfer efficiency between 40% and 60% Date of Commenced: August 1997, Location: Main building	2 stage filter (Panel filter) with 99% estimated removal efficiency	401 KAR 59:010 401 KAR 63:021
EP # 014	South Paint Booth (Final Paint Line)	Application of primer and final coats to miscellaneous metal parts used in crane assembly utilizing two spray guns. Estimated transfer efficiency 60% Date of Commenced: March 1991, Location: Final Paint Building	2 stage filter (Panel filter) with 99% estimated removal efficiency	401 KAR 59:010 401 KAR 63:021
EP # 015	Touch Up Paint Booth (Final Paint Line)	Application of primer and final coats to miscellaneous metal parts used in crane assembly utilizing one electrostatic air spray gun. Estimated transfer efficiency 60% Date of Commenced: March 1991, Location: Final paint building	2 stage filter (Panel filter) with 99% estimated removal efficiency. Due to the size of the cranes, application of coating is not always directed toward the filters.	401 KAR 59:010

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Points Number	Name	Description of Affected Facility	Control Equipment	Applicable Regulation
EP # 016	Clean up Solvent	Clean-Up Solvent	None	None
EP# 27 A	Prime Coat Paint Booth (Boom Line)	Application of primer to miscellaneous metal parts used in crane assembly utilizing two electrostatic air spray guns. Estimated transfer efficiency 60% Date of Commenced: June 2007	2 stage filter (Panel filter) with 99% estimated removal efficiency	401 KAR 59:010
EP# 28 A	Top Coat Paint Booth (Boom Line)	Application of primer and final coats to miscellaneous metal parts used in crane assembly utilizing two electrostatic air spray guns. Estimated transfer efficiency 60% Date of Commenced: June 2007	2 stage filter (Panel filter) with 99% estimated removal efficiency	401 KAR 59:010

APPLICABLE REGULATIONS:

401 KAR 59:010. New process operations

401 KAR 63:021. Existing sources emitting toxic air pollutants

1. **Operating Limitations:**
   The filters shall be in place and operated according to the manufacturer's specifications and recommendations at any time a given spray booth is in use.

2. **Emission Limitations:**
   a. The following emission limitations for particulate matter are pursuant to 401 KAR 59:010, Section 3 (2):

EMISSION POINT	AFFECTED FACILITY	MAXIMUM CAPACITY (ton/hr)	MAXIMUM ALLOWABLE EMISSION RATE (lb/hr)
05	Prime Coat Paint Booth	0.043	2.34
06	Top Coat Paint Booth	0.065	2.34
07A	Heavy Part Hang Line Paint Booth	0.077 ~~0.072~~	2.34
014	South Paint Booth	0.077	2.34
15	Touch Up Paint Booth	0.014	2.34
27A	Prime Coat Paint Booth	0.080	2.34
28A	Top Coat Paint Booth	0.068 ~~0.074~~	2.34

Emission of particulate matter from a control device or stack of any affected facility up

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations (Continued):

to a process rate of 1000 lbs/hr shall not exceed 2.34 lbs/hr.

Compliance Demonstration Method:

The source is assumed to be in compliance when the filters are in place and properly maintained. Refer to Subsection **4. Monitoring Requirements**.

b. The opacity of visible emissions from each stack shall not equal or exceed 20 percent [401 KAR 59:010, Section 3 (1)].

Compliance Demonstration Method:

See **4. Monitoring Requirements** for opacity compliance demonstration.

c. See Section D for the source-wide naphthalene, VOC and PM/PM10 emission limitations.

d. Based upon the emission rates of toxics and hazardous air pollutants determined by the Cabinet using information provided in the application and supplemental information submitted by the source, the Cabinet determines the affected facility to be in compliance with 401 KAR 63:021.

3. Testing Requirements:

Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005, Section 2(2) and 50:045, Section 4.

4. Specific Monitoring Requirements:

a. The permittee shall perform a qualitative visual observation of the opacity of emissions at each stack no less than weekly while the affected facility is operating. If visible emissions from the stacks are observed (not including condensed water in the plume), the permittee shall determine the opacity using Reference Method 9. In lieu of determining the opacity using U.S. EPA Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume).

b. The permittee shall conduct the filter visual inspection once a week and change filter when determined to be ineffective.

c. The twelve-month rolling total naphthalene, VOC and PM/PM10 emissions shall be monitored monthly.

5. Specific Recordkeeping Requirements:

a. The permittee shall maintain a log of the visual observations noting date, time, initials of observers, and records of corrective actions taken as a result of visible emissions from a stack and records of any Reference Method 9 readings performed.

b. The permittee shall maintain a log of the weekly filter visual inspection, including the date, and dates of filter replacements.

c. The permittee shall keep manufacturer's filter specifications on site.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

d. See Section D.5.

6. Specific Reporting Requirements:

a. The permittee shall submit a copy of the control device inspection and repair log for those times when corrective actions are required due to an opacity exceedance and/or records of any Reference Method 9 opacity observations as noted in Section B (4) a. Copies of these records shall be submitted as a part of the semiannual reporting as required in Section F (5) & (6).

b. See Section D.6.

7. Specific Control Equipment Operating Conditions:

None.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Point Number	Unit Number	Name	Applicable Regulations	Description of Affected Facility
EP # 001	**2**	Indirect Heat Exchanger (Boiler)	401 KAR 59:015 401 KAR 60:005	Manufacturer: Sellers Engineering Rated capacity: 10.461MMBtu/hr. Model Number S-250 W Fuel: Natural Gas Date Commenced: 10/2006 Serial Number: 103900

APPLICABLE REGULATIONS:

401 KAR 59:015. New indirect heat exchangers.

401 KAR 60:005, incorporating by reference 40 CFR 60 Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.

1. Operating Limitations:

The affected facility shall continue to use natural gas as a fuel.

2. Emission Limitations:

401 KAR 59:015, New indirect heat exchangers

a. Section 4: Particulate matter emissions from each boiler shall not exceed 0.53 lbs/MMBtu actual heat input based on a three-hour average.

b. Section 5: Sulfur dioxide emissions from each boiler shall not exceed 2.73 lbs/MMBtu actual heat input based on a twenty-four-hour average.

c. Section 4: Visible emissions from each boiler shall not equal or exceed 20% opacity

Compliance Demonstration Method:

This emission point is assumed to be in compliance with the particulate matter**,** sulfur dioxide and opacity limits while burning natural gas.

d. See Section D.3 for VOC emission limit.

e. See Section D.4 for PM/PM10 emission limit.

3. Testing Requirements:

Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005, Section 2(2) and 50:045, Section 4.

4. Specific Monitoring Requirements:

None

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Record keeping Requirements:

The permittee shall maintain records of the monthly natural gas usage rate in million cubic feet.

6. Specific Reporting Requirements:

See Section D.6.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Point Number	AFFECTED FACILITY	Description of Affected Facility
EP # 002 (Bay 1 –Bay 5)	127 ~~125~~ welding machines	Rated capacity: 1038.3 ~~867.5~~ lbs /hr Cartridge Filter with an estimated 90% capture and 95% control and vents inside the building.
EP # 017	33 Welding machines, (Lattice Bay welding operations)	Rated capacity: 221.5 lbs/hr Cartridge Filter with an estimated 90% capture and 95% control and vents inside the building.
EP # 019	Shot Blast unit (totally enclosed)	Rated capacity: 24 lbs/hr shot make up Cartridge Filter with an estimated 100% capture and 99% control Date Commenced: March 1991
EP # 034	Shot Blast unit (totally enclosed)	Rated capacity: 60 lbs/hr shot make up, Cartridge Filter with an estimated 100% capture and 99.97% control Date Commenced: Dec 2016
EP # 027	Shot Blast unit (totally enclosed)	Rated capacity: 52 lbs/hr shot make up, Cartridge Filter with an estimated 100% capture and 99% control and vents inside the building. Date Commenced: August 2007
EP # 29	17 ~~15~~ Welding machines, (Bay 10 welding operations)	Rated capacity: 153.5 ~~142.5~~ lbs/hr Cartridge Filter with an estimated 90% capture and 95% control and vents inside the building. Date Commenced: May 2007
EP # 35	2 Welding machines, (Prototype Building)	Rated capacity: 11 lbs/hr Cartridge Filter with an estimated 90% capture and 95% control and vents inside the building. Date Commenced: May 2007

APPLICABLE REGULATIONS:

401 KAR 59:010. New process operations.

401 KAR 63:002, Section 2(4)(vvvvv), 40 C.F.R. 63.11514 to 63.11523, Tables 1 to 2 (Subpart XXXXXX), National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories

1. **Operating Limitations:**

Dry abrasive blasting standards

a. 40 CFR 63.11516 (a) (2) *Standards for dry abrasive blasting of objects performed in vented enclosures*. The permittee shall comply with the requirements in paragraphs (a)(2)(i) and (ii) of 40 CFR 63.11516.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

1. Operating Limitations (Continued):

1) 40 CFR 63.11516 (a)(2)(i) The permittee shall capture emissions and vent them to a filtration control device. The permittee shall operate the filtration control device according to manufacturer's instructions, and the permittee shall demonstrate compliance with this requirement by maintaining a record of the manufacturer's specifications for the filtration control devices, as specified by the requirements in 40 CFR 63.11519(c)(4).

2) 40 CFR 63.11516 (a)(2)(ii) The permittee shall implement the management practices to minimize emissions of MFHAP as specified in paragraphs (a)(2)(ii)(A) through (C) of 40 CFR 63.11516.

i) 40 CFR 63.11516 (a)(2)(ii)(A) The permittee shall take measures necessary to minimize excess dust in the surrounding area to reduce MFHAP emissions, as practicable; and
ii) 40 CFR 63.11516 (a)(2)(ii)(B) The permittee shall enclose dusty abrasive material storage areas and holding bins, seal chutes and conveyors that transport abrasive materials; and
iii) 40 CFR 63.11516 (a)(2)(ii)(C) The permittee shall operate all equipment associated with dry abrasive blasting operations according to manufacturer's instructions.

Standards for welding

b. 40 CFR 63.11516 (f) *Standards for welding*. The permittee shall demonstrate that management practices or fume control measures are being implemented by complying with the requirements in paragraphs (f)(3) through (8) of 40 CFR 63.11516.

1) 40 CFR 63.11516 (f)(1) The permittee shall operate all equipment, capture, and control devices associated with welding operations according to manufacturer's instructions. The permittee shall demonstrate compliance with this requirement by maintaining a record of the manufacturer's specifications for the capture and control devices, as specified by the requirements in 40 CFR 63.11519(c)(4).

2) 40 CFR 63.11516 (f)(2) The permittee shall implement one or more of the management practices specified in paragraphs (f)(2)(i) through (v) of 40 CFR 63.11516 to minimize emissions of MFHAP, as practicable, while maintaining the required welding quality through the application of sound engineering judgment.
i) 40 CFR 63.11516 (f)(2)(i) Use welding processes with reduced fume generation capabilities (e.g., gas metal arc welding (GMAW)—also called metal inert gas welding (MIG));
ii) 40 CFR 63.11516 (f)(2)(ii) Use welding process variations (e.g., pulsed current GMAW), which can reduce fume generation rates;
iii) 40 CFR 63.11516 (f)(2)(iii) Use welding filler metals, shielding gases, carrier gases, or other process materials which are capable of reduced welding fume generation;
iv) 40 CFR 63.11516 (f)(2)(iv) Optimize welding process variables (e.g., electrode

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

1. Operating Limitations (Continued):

diameter, voltage, amperage, welding angle, shield gas flow rate, travel speed) to reduce the amount of welding fume generated; and

v) 40 CFR 63.11516 (f)(2)(v) Use a welding fume capture and control system, operated according to the manufacturer's specifications.

3) 40 CFR 63.11516 (f)(3) *Tier 1 compliance requirements for welding*. The permittee shall perform visual determinations of welding fugitive emissions as specified in 40 CFR 63.11517(b), "Monitoring requirements," at the primary vent, stack, exit, or opening from the building containing the welding operations. The permittee shall keep a record of all visual determinations of fugitive emissions along with any corrective action taken in accordance with the requirements in 40 CFR 63.11519(c)(2), "Notification, recordkeeping, and reporting requirements."

4) 40 CFR 63.11516 (f)(4) *Requirements upon initial detection of visible emissions from welding*. If visible fugitive emissions are detected during any visual determination required in paragraph (f)(3) of 40 CFR 63.11516, The permittee shall comply with the requirements in paragraphs (f)(4)(i) and (ii) of 40 CFR 63.11516.

i) 40 CFR 63.11516 (f)(4)(i) Perform corrective actions that include, but are not limited to, inspection of welding fume sources, and evaluation of the proper operation and effectiveness of the management practices or fume control measures implemented in accordance with paragraph (f)(2) of 40 CFR 63.11516. After completing such corrective actions, the permittee shall perform a follow-up inspection for visible fugitive emissions in accordance with 40 CFR 63.11517(a), "Monitoring Requirements," at the primary vent, stack, exit, or opening from the building containing the welding operations.

ii) 40 CFR 63.11516 (f)(4)(ii) Report all instances where visible emissions are detected, along with any corrective action taken and the results of subsequent follow-up inspections for visible emissions, and submit with your annual certification and compliance report as required by 40 CFR 63.11519(b)(5), "Notification, recordkeeping, and reporting requirements."

5) 40 CFR 63.11516 (f)(5) *Tier 2 requirements upon subsequent detection of visible emissions*. If visible fugitive emissions are detected more than once during any consecutive 12 month period (notwithstanding the results of any follow-up inspections), The permittee shall comply with paragraphs (f)(5)(i) through (iv) of 40 CFR 63.11516 and 40 CFR 63.11516 (f)(6) as required.

6) 40 CFR 63.11516 (f)(7) *Tier 3 requirements for opacities exceeding 20 percent*. For each visual determination of emissions opacity performed in accordance with paragraph (f)(5) of 40 CFR 63.11516 for which the average of the six minute average opacities recorded exceeds 20 percent, The permittee shall comply with the requirements in paragraphs (f)(7)(i) through (v) of 40 CFR 63.11516.

2. Emission Limitations:

a. Refer to Subsection 1. Operating Limitations:

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations (Continued):

b. Standard for Opacity (401 KAR 59:010, Section 3):
The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility (s) which is equal to or greater than twenty (20) percent opacity.

Compliance Demonstration Method:
If required by the Cabinet, the permittee shall use the compliance demonstration methods of 40 CFR 63, Subpart XXXXXX to ensure that the opacity standard of 401 KAR 59:010 is not exceeded including those times when the permittee is not using materials containing MFHAP as defined by 40 CFR 63.11514.

c. Standard for Particulate Matter (401 KAR 59:010, Section 3(2)):
For emission from a control device or stack, no person shall cause, suffer, allow or permit the emission in to the open air of particulate matter (PM) from any affected facility in excess of 2.34 lbs/hr.

Compliance Demonstration Method:
The source is considered to be in compliance with 401 KAR 59:010 when the management practices of 40 CFR 63, Subpart XXXXXX are followed.

d. See Section D for the source-wide PM/PM10 emission limitations.

3. Testing Requirements:
Refer to Subsection 4. Specific Monitoring Requirements:

4. Specific Monitoring Requirements:

a. 40 CFR 63.11517 (a) *Visual determination of fugitive emissions, general*. Visual determination of fugitive emissions shall be performed according to the procedures of EPA Method 22, of 40 CFR part 60, Appendix A–7. The permittee shall conduct the EPA Method 22 test while the affected source is operating under normal conditions. The duration of each EPA Method 22 test shall be at least 15 minutes, and visible emissions will be considered to be present if they are detected for more than six minutes of the fifteen minute period.

1) 40 CFR 63.11517 (b) *Visual determination of fugitive emissions, graduated schedule*. Visual determinations of fugitive emissions shall be performed in accordance with paragraph (a) of 40 CFR 63.11517 and according to the schedule in paragraphs (b)(1) through (4) of 40 CFR 63.11517.

2) 40 CFR 63.11517 (b)(1) *Daily Method 22 Testing*. Perform visual determination of fugitive emissions once per day, on each day the process is in operation, during operation of the process.

3) 40 CFR 63.11517 (b)(2) *Weekly Method 22 Testing*. If no visible fugitive emissions are detected in consecutive daily EPA Method 22 tests, performed in accordance with paragraph (b)(1) of 40 CFR 63.11517 for 10 days of work day operation of the

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

4. Specific Monitoring Requirements (Continued):

process, you may decrease the frequency of EPA Method 22 testing to once every five days of operation of the process (one calendar week). If visible fugitive emissions are detected during these tests, The permittee shall resume EPA Method 22 testing of that operation once per day during each day that the process is in operation, in accordance with paragraph (b)(1) of 40 CFR 63.11517.

4) 40 CFR 63.11517 (b)(3) *Monthly Method 22 Testing*. If no visible fugitive emissions are detected in four consecutive weekly EPA Method 22 tests performed in accordance with paragraph (b)(2) of 40 CFR 63.11517, you may decrease the frequency of EPA Method 22 testing to once per 21 days of operation of the process (one calendar month). If visible fugitive emissions are detected during these tests, The permittee shall resume weekly EPA Method 22 in accordance with paragraph (b)(2) of 40 CFR 63.11517.

5) 40 CFR 63.11517 (b)(4) *Quarterly Method 22 Testing*. If no visible fugitive emissions are detected in three consecutive monthly EPA Method 22 tests performed in accordance with paragraph (b)(3) of 40 CFR 63.11517, you may decrease the frequency of EPA Method 22 testing to once per 60 days of operation of the process (3 calendar months). If visible fugitive emissions are detected during these tests, The permittee shall resume monthly EPA Method 22 in accordance with paragraph (b)(3) of 40 CFR 63.11517.

b. 40 CFR 63.11517 (c) *Visual determination of emissions opacity for welding Tier 2 or 3, general.* This section applies if the permittee is required to follow the Tier 2 or 3 welding requirements.

c. 40 CFR 63.11517 (d) *Visual determination of emissions opacity for welding Tier 2 or 3, graduated schedule.* This section applies if the permittee is required to follow the Tier 2 or 3 welding requirements.

5. Specific Recordkeeping Requirements:

a. Pursuant to 40 CFR 63.11519 (c), the permittee shall keep the applicable records specified in paragraphs (c)(1) through ([14]) of 40 CFR 63.11519, according to the requirements in paragraph (c)([15]) of 40 CFR 63.11519.

1) 40 CFR 63.11519 (c) (1) *General compliance and applicability records*. Maintain information specified in paragraphs (c) (1) (i) through (ii) of 40 CFR 63.11519 for each affected source.
   i) 40 CFR 63.11519 (c) (1) (i) each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report.
   ii) 40 CFR 63.11519 (c)(1)(ii) Records of the applicability determinations as in 40 CFR 63.11514(b)(1) through (5), "Am I subject to this subpart," listing equipment included in its affected source, as well as any changes to that and on what date they occurred, shall be maintained for 5 years and be made available

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Recordkeeping Requirements (Continued):

for inspector review at any time.

2) 40 CFR 63.11519 (c) (2) *Visual determination of fugitive emissions records*. Maintain a record of the information specified in paragraphs (c) (2) (i) through (iii) of 40 CFR 63.11519 for each affected source which performs visual determination of fugitive emissions in accordance with 40 CFR 63.11517(a), "Monitoring requirements."
   i) 40 CFR 63.11519 (c)(2)(i) The date and results of every visual determination of fugitive emissions;
   ii) 40 CFR 63.11519 (c)(2)(ii) A description of any corrective action taken subsequent to the test; and
   iii) 40 CFR 63.11519 (c) (2) (iii) the date and results of any follow-up visual determination of fugitive emissions performed after the corrective actions.

3) 40 CFR 63.11519 (c) (3) *Visual determination of emissions opacity records*. This section applies if the permittee is subject to the Tier 2 or 3 welding requirements.

4) 40 CFR 63.11519 (c)(4) Maintain a record of the manufacturer's specifications for the control devices used to comply with 40 CFR 63.11516, "What are my standards and management practices?"

5) 40 CFR 63.11519 (c)(11) *Visual determination of emissions opacity performed during the preparation (or revision) of the Site-Specific Welding Emissions Management Plan*. This section applies if the permittee is subject to the Tier 3 welding requirements.

6) 40 CFR 63.11519 (c)(12) *Site-Specific Welding Emissions Management Plan*. This section applies if the permittee is subject to the Tier 3 welding requirements.

7) 40 CFR 63.11519 (c)(13) *Manufacturer's instructions*. If you comply with this subpart by operating any equipment according to manufacturer's instruction, The permittee shall keep these instructions readily available for inspector review.

8) 40 CFR 63.11519 (c)(15) Your records shall be maintained according to the requirements in paragraphs (c)([15])(i) through (iii) of 40 CFR 63.11519.
   i) 40 CFR 63.11519 (c)(15)(i) Your records shall be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1), "General Provisions." Where appropriate, the records may be maintained as electronic spreadsheets or as a database.
   ii) 40 CFR 63.11519 (c)(15)(ii) As specified in 40 CFR 63.10(b)(1), "General Provisions," The permittee shall keep each record for 5 years following the date of each occurrence, measurement, corrective action, report, or record.
   iii) 40 CFR 63.11519 (c)(15)(iii) The permittee shall keep each record on-site for at least 2 years after the date of each occurrence, measurement, corrective action, report, or record according to 40 CFR 63.10(b)(1), "General Provisions." You may keep the records off-site for the remaining 3 years.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

6. Specific Reporting Requirements:

a. 40 CFR 63.11519 (b)(1) *Annual certification and compliance reports*. The permittee shall prepare and submit annual certification and compliance reports for each affected source according to the requirements of paragraphs (b)(2) through (7) of 40 CFR 63.11519.

b. Pursuant to 40 CFR 63.11519 (b)(2) and (3) the permittee may submit each annual certification and compliance report along with the semiannual reporting and compliance certification required by Section F of this permit.

c. Pursuant to 40 CFR 63.11519 (b)(3) the annual certification and compliance reporting requirements may be satisfied by reports required by Section F of this permit as long as the permit required reporting includes the information in paragraphs (b)(4) through (9) of 40 CFR 63.11519 as required.

d. 40 CFR 63.11519 (b)(4) *General requirements*. The annual certification and compliance report shall contain the information specified in paragraphs (b)(4)(i) through (iii) of 40 CFR 63.11519, and the information specified in paragraphs (b)(5) through (7) of 40 CFR 63.11519 that is applicable to each affected source.

1) 40 CFR 63.11519 (b)(4)(i) Company name and address;

2) 40 CFR 63.11519 (b)(4)(ii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report; and

3) 40 CFR 63.11519 (b)(4)(iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 12-month period ending on December 31. Note that the information reported for the 12 months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.

e. 40 CFR 63.11519 (b)(5) *Visual determination of fugitive emissions requirements*. The annual certification and compliance report shall contain the information specified in paragraphs (b)(5)(i) through (iii) of 40 CFR 63.11519 for each affected source which performs visual determination of fugitive emissions in accordance with 40 CFR 63.11517 (a), "Monitoring requirements."

1) 40 CFR 63.11519 (b)(5)(i) The date of every visual determination of fugitive emissions which resulted in detection of visible emissions;

2) 40 CFR 63.11519 (b)(5)(ii) A description of the corrective actions taken subsequent to the test; and

3) 40 CFR 63.11519 (b) (5) (iii) the date and results of the follow-up visual determination of fugitive emissions performed after the corrective actions.

f. 40 CFR 63.11519 (b) (6) *Visual determination of emissions opacity requirements*. The

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

6. Specific Reporting Requirements (Continued):

permittee shall report any Method 9 opacity observations according to 40 CFR 63.11519 (b) (6) if the permittee becomes subject to Tier 2 or 3.

g. 40 CFR 63.11519 (b) (8) *Exceedances of 20 percent opacity for welding affected sources*. Applies to Tier 3 opacities exceeding 20 percent.

h. 40 CFR 63.11519 (b) (9) *Site-specific Welding Emissions Management Plan reporting*. Applies to Tier 3 opacities exceeding 20 percent.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 30 Gasoline Dispensing Operation

Description:
SCC Units: ~~1000~~ 500 gallon of stored gasoline.
Hourly Operating Rate (SCC Units/hr): 0.0011 (1000 gal/hr)
Construction Commenced: January 1995, replacement tank installed July 2025

APPLICABLE REGULATIONS:
401 KAR 63:002, Section (2)(4)(ddddd) 40 C.F.R. 63.11110 to 63.11132, Tables 1 to 3 (Subpart CCCCCC), National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities

1. **Operating Limitations:**
40 CFR 63.11116 (a), the permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

   a. Minimize gasoline spills.

   b. Clean up spills as expeditiously as practicable.

   c. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a casketed seal when not in use.

   d. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

2. **Emission Limitations:**
None

3. **Testing Requirements:**
Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005, Section 2(2) and 50:045, Section 4.

4. **Specific Monitoring Requirements:**
   a. The permittee shall monitor monthly throughput of gasoline to ensure less than 10,000 gallons.

   b. See Operating Limitations for gasoline handling requirements.

5. **Specific Recordkeeping Requirements:**
   a. 40 CFR 63.11116 (b), the permittee shall have records available within 24 hours of a request by the Division to document gasoline throughput.

   b. Monthly throughput records shall be kept for five (5) years.

   c. See Monitoring Requirements above.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

6. Specific Reporting Requirements:

None

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 31 (EG1) **60 KW Emergency Generator**

Description:

Construction Commenced:	October 10, 2009: Manufactured November 11, 2008
Maximum Continuous Rating:	80.46 HP
Primary Fuel:	Natural Gas

APPLICABLE REGULATIONS:

401 KAR 63:002, Section 2(4)(eeee), 40 C.F.R. 63.6580 to 63.6675, Tables 1a to 8, and Appendix A (Subpart ZZZZ), National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Note: D.C. Circuit Court [*Delaware v. EPA*, 785 F. 3d 1 (D.C. Cir. 2015)] has vacated the provisions in 40 CFR 63, Subpart ZZZZ that contain the 100-hour exemption for operation of emergency engines for purposes of emergency demand response under 40 CFR 63.6640(f)(2)(ii)-(iii). The D.C. Circuit Court issued the mandate for the vacatur on May 4, 2016.

1. **Operating Limitations**:
   None

2. **Emission Limitations**:
   See Section D for the source-wide PM/PM10 and VOC emission limitations.

3. **Testing Requirements**:
   Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 50:045.

4. **Specific Monitoring Requirements**:
   a. Pursuant to 401 KAR 52:30, Section 10, the permittee shall monitor natural gas consumption (standard cubic feet) for this engine.

   b. Pursuant to 401 KAR 52:30, Section 10, the permittee shall monitor hours of operation for this engine.

5. **Specific Recordkeeping Requirements**:
   a. Pursuant to 401 KAR 52:30, Section 10, the permittee shall record of natural gas consumed (standard cubic feet) for this engine.

   b. Pursuant to 401 KAR 52:30, Section 10, the permittee shall record the hours and reason of operation for this engine.

6. **Specific Reporting Requirements**:
   See Section F.

7. **Specific Control Equipment Operating Conditions:**
   None

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 32 (FP1) **179 KW Fire Pump**

Description:
Construction Commenced: April 28, 1999
Maximum Continuous Rating: 240 HP
Primary Fuel: Diesel

APPLICABLE REGULATIONS:
401 KAR 63:002, Section 2(4)(eeee) 40 C.F.R. 63.6580 to 63.6675, Tables 1a to 8, and Appendix A (Subpart ZZZZ), National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Note: D.C. Circuit Court [*Delaware v. EPA*, 785 F. 3d 1 (D.C. Cir. 2015)] has vacated the provisions in 40 CFR 63, Subpart ZZZZ that contain the 100-hour exemption for operation of emergency engines for purposes of emergency demand response under 40 CFR 63.6640(f)(2)(ii)-(iii). The D.C. Circuit Court issued the mandate for the vacatur on May 4, 2016.

1. **Operating Limitations:**
   a. The permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, 40 CFR 63.6625(e).

   b. The permittee shall comply with the operating limitations in Table 2d to 40 CFR 63, Subpart ZZZZ which apply: [40 CFR 63.6603].

      (1) Change oil and filter every 500 hours of operation or annually, whichever comes first;
      (2) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
      (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

   c. The permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which the emission standards applicable to all times other than startup in Tables 2d to 40 CFR 63, Subpart ZZZZ apply. [40 CFR 63.6625 (h)].

   d. The permittee shall have the option to utilize an oil analysis program as described in 40 CFR 63.6625(i) in order to extend the specified oil change requirement in Table 2d of Subpart ZZZZ.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

1. Operating Limitations (Continued):

e. The permittee shall operate the emergency stationary RICE according to the requirements in paragraphs (f) (1) through (4) of 40 CFR 63.6640. In order for the engine to be considered an emergency stationary RICE under 40 CFR 63, Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of 40 CFR 63.6640, is prohibited. If the permittee does not operate the engine according to the requirements in paragraph (f)(1) through (4) of 40 CFR 63, Subpart ZZZZ, the engine will not be considered an emergency engine under 40 CFR 63, Subpart ZZZZ and must meet all requirements for non-emergency engines. [40CFR 63.6640 (f)].

(1) There is no time limit on the use of emergency stationary RICE in emergency situations, 40 CFR 63.6640(f)(1)(i).

(2) The permittee may operate the emergency stationary RICE for the purpose specified in paragraph (f)(2)(i) of 40 CFR 63.6640 for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) and (4) of 40 CFR 63.6640 counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturers, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or insurance company associated with the engine. The permittee may petition the maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

(3) Emergency stationary RICE located at area sources of HAP maybe operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4) (i) and (ii) of this section the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

2. Emission Limitations:

a. Refer to 1. Operating Limitations

b. See Section D for the source-wide VOC and PM/PM10 emission limitations.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. Testing Requirements:

Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 50:045.

4. Specific Monitoring Requirements:

a. The permittee shall install a non-resettable hour meter if one is not already installed, 40 CFR 63.6625 (f).

b. Pursuant to 401 KAR 52:030, Section 10, the permittee shall monitor diesel fuel consumption (gallons) for this engine on a monthly basis.

5. Specific Recordkeeping Requirements:

a. The permittee shall keep the records described below [40 CFR 63.6655 (a)].

(1) A copy of each notification and report submitted to comply with this subpart.

(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

(3) Records of performance tests and performance evaluations as required in 40 CFR 63.10(b) (2) (viii).

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

b. The permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after treatment control device (if any) according to your own maintenance plan [40 CFR 63.6655 (e)].

c. The permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation [40 CFR 63.6655 (f)].

d. All records shall be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b) (1) [40 CFR 63.6660 (a)].

e. As specified in 40 CFR 63.10(b)(1), keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record [40 CFR 63.6660 (b)].

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Recordkeeping Requirements (Continued):

f. All records shall kept readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1) [40 CFR 63.6660 (c)] .

g. Pursuant to 401 KAR 52:030, Section 10, the permittee shall record the amount of diesel fuel consumed (gallons) for this engine on a monthly basis.

6. Specific Reporting Requirements:

a. Pursuant to 40 CFR 63.6640 (b), report each instance in which the permittee did not meet the operating limitations. These instances are deviations from the emission and operating limitations in this subpart. These deviations shall be reported according to the requirements in 40 CFR 63.6650.

b. Pursuant to Table 2d to Subpart ZZZZ, if an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources shall report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

7. Specific Control Equipment Operating Conditions: None

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

EU 33 Parts Washer Boiler

Description: Model: 300 W Rite Engineering
Rated Capacity: 2.95 MMBtu/hr
Fuel: Natural Gas
Commenced date: October 2017

APPLICABLE REGULATIONS:

401 KAR 59:015, New Indirect Heat Exchangers

1. **Operating Limitations:**
   None

2. **Emission Limitations:**
   a. Pursuant to 401 KAR 59:015, Section 4(1), particulate emissions shall not exceed 0.44 lb/MMBtu,

   b. Pursuant to 401 KAR 59:015, Section 4(2), emissions shall not exceed 20% opacity.

   c. Pursuant to 401 KAR 59:015, Section 5(1), sulfur dioxide emissions shall not exceed 2.02 lb/MMBtu.

      Compliance Demonstration:
      These units are considered to be in compliance with the allowable SO_2, PM, and opacity limitations while burning natural gas.

   d. See Section D for the source-wide VOC and PM/PM10 emission limitations.

3. **Testing Requirements:**
   Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 section 2(2) and 50:045 section 4.

4. **Specific Monitoring Requirements:**
   The permittee shall monitor the amount of natural gas burned on a monthly basis.

5. **Specific Recordkeeping Requirements:**
   The permittee shall maintain records of the amount of natural gas burned on a monthly basis.

6. **Specific Reporting Requirements:**
   See Section D.8

7. **Specific Control Equipment Operating Conditions:**
   None

SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:030, Section 6. Although these activities are designated as insignificant the permittee must comply with the applicable regulation. Process and emission control equipment at each insignificant activity subject to an opacity standard shall be inspected monthly and a qualitative visible emissions evaluation made. Results of the inspection, evaluation, and any corrective action shall be recorded in a log.

Description	Generally Applicable Regulation
1. Portable Steam Cleaners (Electric): (4.68 gal/hr)	None
2. Parts Washers: (20 gallons)	None
3. Touch-up Coating Operations:(< 5 tpy)	None
4. Diesel Tank: (5000 gallons), Replaced July 2025	None
5. Hydraulic Oil Tanks (2): (10,000 gallons each)	None
6. Cooling Towers: (866 gallons/minute)	None
7. 250 Gallon Diesel Fuel Tank for Fire Pump (FP1)	None
8. Solvent Recovery System	None
9. Torch Cutting Operations (2)	401 KAR 59:010
10. Six Stage Parts Washer (Zirconization)	None
11. Heavy Part Hang Line, Heavy Weldment Infrared Cure Oven (EP 20)	None
12. Infrared Cure Oven (Boom Line) (EP 28C)	None
13. Light Hang Line Dry Off Oven (Light Parts Hang Line) (EP 23) Capacity: 2.8 MMBtu/hr	None
14. Light hang Line Cure Oven (Light Parts Hang Line) (EP 24) Capacity: 4.2 MMBtu/hr	None
15. 1 Make-Up Air Unit (Light Parts Hang Line)(EP 25) Capacity: 6.56 MMBtu/hr	None
16. Heavy Part Hang Line, 1 Make-Up Air Unit (EP 07B) Capacity: 7.98 MMBtu/hr	None
17. Make-Up Air Unit (Final Paint Line) (EP 014A) Capacity: 2.4 MMBtu/hr	None

SECTION C - INSIGNIFICANT ACTIVITIES (CONTINUED)

Description	Generally Applicable Regulation
18. Make-Up Air Unit (Final Paint Line) (EP 014B) Capacity: 2.4 MMBtu/hr	None
19. Make-Up Air Unit (Final Paint Line) (EP 014C) Capacity: 2.4 MMBtu/hr	None
20. Tanaka Fiber Laser Cutter (T12000)	401 KAR 59:010

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.

2. Volatile Organic Compounds (VOC), and Particulate Matter (PM) emissions, measured by applicable reference methods, or an equivalent or alternative method specified in 40 C.F.R. Chapter I, or by a test method specified in the state implementation plan shall not exceed the respective limitations specified herein.

3. The source has accepted a facility-wide cap on annual VOC emission ~~of~~ and therefore shall not exceed 90.0 tons per rolling 12-month period including VOC emissions from combustion sources and units listed in Sections B and C. The annual VOC emission shall be calculated based on 12-month rolling total.

Compliance Demonstration Method:

a. The following equation may be used to calculate VOC emission:
Monthly VOC emission = ∑ [Monthly usage of coatings or any other VOC containing material in pounds or gallons per month] x [VOC fraction] x [appropriate conversion factor (if usage is in gallons) for gallons to pounds for coating or any other VOC containing material used]

b. Use the following equation to calculate VOC emissions from natural gas combustion:
Monthly VOC emission = Monthly usage of natural gas (million cubic feet) X 5.5 lbs / million cubic feet

c. For the emergency generator use the following equation to calculate VOC emissions from natural gas combustion:
Monthly VOC emission = Monthly usage of natural gas (million cubic feet) X 118 lbs/ million cubic feet

d. Use the following equation to calculate VOC emission from diesel fuel combustion for fire pump:
Monthly VOC emission = Monthly usage of diesel fuel (1000 gallons) X 47.95 lbs / 1000 gallons

Annual emissions = Sum of 12 consecutive month VOC emissions

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (Continued):

4. The source has accepted a facility-wide cap on annual PM/PM10 emission ~~of~~ and therefore shall not exceed 90.0 tons per rolling 12-month period including PM/PM10 emissions from combustion sources and units listed in Sections B and C. The annual PM/PM10 emission shall be calculated based on 12- month rolling total.

Compliance Demonstration Method:

a. The following equation may be used to calculate PM/PM10 emission:
Monthly PM/PM10 emission = ∑ [Monthly usage of coatings] x [solids fraction] x [1-transfer efficiency] x [1-control efficiency]

b. Use the following equation to calculate PM/PM10 emissions from natural gas combustion:
Monthly PM/PM10 emission = Monthly usage of natural gas (million cubic feet) X 7.6 lbs / million cubic feet

c. For the emergency generator use the following equation to calculate PM/PM10 emissions from natural gas combustion:
Monthly PM/PM10 emission = Monthly usage of natural gas (million cubic feet) X 0.099 lbs/ million cubic feet

d. Use the following equation to calculate PM/PM10 emission from diesel fuel combustion for fire pump:
Monthly PM/PM10 emission = Monthly usage of diesel fuel (1000 gallons) X 42.47 lbs / 1000 gallons

e. Use the following equation to calculate PM/PM10 emissions from welding and abrasive blasting operations:
Monthly PM/PM10 emission = ∑ [Monthly usage of shot blast material/weld wire] x [PM/PM10 emission factor] x [1 - (capture efficiency x control efficiency)]

Annual emissions = Sum of 12 consecutive month PM/PM10 emissions

5. The source has accepted a facility-wide cap on annual naphthalene emission and therefore shall not exceed 963 pounds per rolling 12-month period. The annual naphthalene emission shall be calculated based on 12- month rolling total.

Compliance Demonstration Method:

a. The following equation may be used to calculate naphthalene emission:
Monthly naphthalene emission = ∑ [Monthly usage of coatings or any other naphthalene containing material in pounds or gallons per month] x [naphthalene fraction] x [appropriate conversion factor (if usage is in gallons) for gallons to pounds for coating or any other naphthalene containing material used]

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (Continued):

5. **Specific Recordkeeping Requirements:**
   a. The permittee shall keep calendar month records of the usage of each coating, solvent, thinner, diluent, and clean up solvent or any other naphthalene/VOC/PM/PM10 containing material that have emissions.

   b. At the end of each month naphthalene, VOC and PM/PM10 emissions in tons shall be calculated and recorded.

   c. The annual emission for each rolling 12 month year shall be calculated and kept available at the plant site.

   d. The records listed above, as well as purchase orders and invoices for all naphthalene/VOC/PM containing materials that have emissions, shall be made available for inspection upon request by duly authorized representatives of the Division for Air Quality.

6. **Specific Reporting Requirements:**
Reporting of the following shall be done on a semiannual-basis:

   a. Any deviations from requirements of section B shall be reported.

   b. The VOC emissions for each month in the semi-annual period shall be reported.

   c. The PM/PM10 emissions for each month in the semi-annual period shall be reported.

   d. The naphthalene emissions for each month in the semi-annual period shall be reported.

   e. The rolling 12 month total for VOC during each month in the semi-annual period shall be reported.

   f. The rolling 12 month total for PM/PM10 during each month in the semi-annual period shall be reported.

   g. The rolling 12 month total for naphthalene during each month in the semi-annual period shall be reported.

   h. Monthly diesel fuel usage for fire pump in 1000 gallons shall be reported.

   i. Monthly natural gas usage in million cubic feet shall be reported.

SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. Pursuant to Section 1b-IV-1 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030 Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
   a. Date, place (as defined in this permit), and time of sampling or measurements;
   b. Analyses performance dates;
   c. Company or entity that performed analyses;
   d. Analytical techniques or methods used;
   e. Analyses results; and
   f. Operating conditions during time of sampling or measurement.

2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five (5) years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [401 KAR 52:030, Section 3(1)(f)1a, and Section 1a-7 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

3. In accordance with the requirements of 401 KAR 52:030, Section 3(1)f, the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
   a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
   b. To access and copy any records required by the permit;
   c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.

   Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.

4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

5. Summary reports of any monitoring required by this permit shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Sections 1b-V-1 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

6. The semi-annual reports are due by January 30th and July 30th of each year. All reports shall be certified by a responsible official pursuant to 401 KAR 52:030, Section 22. If continuous emission and opacity monitors are required by regulation or this permit, data shall be reported in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All deviations from permit requirements shall be clearly identified in the reports.

7. In accordance with the provisions of 401 KAR 50:055, Section 1, the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
   a. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
   b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.

8. The permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken shall be submitted to the Regional Office listed on the front of this permit. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement does not identify a specific time frame for reporting deviations, prompt reporting, as required by Sections 1b-V, 3 and 4 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26 shall be defined as follows:
   a. For emissions of a hazardous air pollutant or a toxic air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
   b. For emissions of any regulated air pollutant, excluding those listed in F.8.a., that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
   c. All deviations from permit requirements, including those previously reported, shall be included in the semiannual report required by F.6.

9. Pursuant to 401 KAR 52:030, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit in accordance with the following requirements:
   a. Identification of each term or condition;
   b. Compliance status of each term or condition of the permit;
   c. Whether compliance was continuous or intermittent;
   d. The method used for determining the compliance status for the source, currently and over the reporting period.

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.
f. The certification shall be submitted by January 30th of each year. Annual compliance certifications shall be sent to the Division for Air Quality, Frankfort Regional Office, 300 Sower Blvd., 1st Floor, Frankfort, KY 40601

10. In accordance with 401KAR 52:030, Section 3(1)(d), the permittee shall provide the Division with all information necessary to determine its subject emissions within 30 days of the date the Kentucky Emissions Inventory System (KYEIS) emissions survey is mailed to the permittee. If a KYEIS emissions survey is not mailed to the permittee, then the permittee shall comply with all other emissions reporting requirements in this permit.

11. The Cabinet may authorize the temporary use of an emission unit to replace a similar unit that is taken off-line for maintenance, if the following conditions are met:
    a. The owner or operator shall submit to the Cabinet, at least ten (10) days in advance of replacing a unit, the appropriate Forms DEP7007AI to DD that show:
        (1) The size and location of both the original and replacement units; and
        (2) Any resulting change in emissions;
    b. The potential to emit (PTE) of the replacement unit shall not exceed that of the original unit by more than twenty-five (25) percent of a major source threshold, and the emissions from the unit shall not cause the source to exceed the emissions allowable under the permit;
    c. The PTE of the replacement unit or the resulting PTE of the source shall not subject the source to a new applicable requirement;
    d. The replacement unit shall comply with all applicable requirements; and
    e. The source shall notify Regional office of all shutdowns and start-ups.
    f. Within six (6) months after installing the replacement unit, the owner or operator shall:
        (1) Re-install the original unit and remove or dismantle the replacement unit; or
        (2) Submit an application to permit the replacement unit as a permanent change.

SECTION G - GENERAL PROVISIONS

1. General Compliance Requirements

   a. The permittee shall comply with all conditions of this permit. A noncompliance shall be a violation of 401 KAR 52:030, Section 3(1)(b), and a violation of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act). Noncompliance with this permit is grounds for enforcement action including but not limited to the termination, revocation and reissuance, revision, or denial of a permit [Section 1a-2 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

   b. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a-5 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

   c. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:030, Section 18. The permit will be reopened for cause and revised accordingly under the following circumstances:
      (1) If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:030, Section 12;
      (2) The Cabinet or the United States Environmental Protection Agency (U. S. EPA) determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
      (3) The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

      Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopening shall be made as expeditiously as practicable. Reopening shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

   d. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the conditions of this permit [Sections 1a- 6 and 7 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

   e. Emission units described in this permit shall demonstrate compliance with applicable requirements if requested by the Division [401 KAR 52:030, Section 3(1)(c)].

SECTION G - GENERAL PROVISIONS (CONTINUED)

f. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the permitting authority [401 KAR 52:030, Section 7(1)].

g. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a-11 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

h. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a-3 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

i. All emission limitations and standards contained in this permit shall be enforceable as a practical matter. All emission limitations and standards contained in this permit are enforceable by the U.S. EPA and citizens except for those specifically identified in this permit as state-origin requirements. [Section 1a-12 of the Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources incorporated by reference in 401 KAR 52:030, Section 26].

j. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a-9 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

k. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:030, Section 11(3)].

l. This permit does not convey property rights or exclusive privileges [Section 1a-8 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

m. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Cabinet or any other federal, state, or local agency.

n. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry.

o. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders.

SECTION G - GENERAL PROVISIONS (CONTINUED)

p. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.

q. Pursuant to 401 KAR 52:030, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with:
(1) Applicable requirements that are included and specifically identified in this permit; and
(2) Non-applicable requirements expressly identified in this permit.

2. Permit Expiration and Reapplication Requirements

a. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six (6) months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:030, Section 12].

b. The authority to operate granted through this permit shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:030, Section 8(2)].

3. Permit Revisions

a. Minor permit revision procedures specified in 401 KAR 52:030, Section 14(3), may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the State Implementation Plan (SIP) or in applicable requirements and meet the relevant requirements of 401 KAR 52:030, Section 14(2).

b. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

4. Construction, Start-Up, and Initial Compliance Demonstration Requirements

No construction authorized by this permit (F-20-029).

SECTION G - GENERAL PROVISIONS (CONTINUED)

5. Testing Requirements

   a. Pursuant to 401 KAR 50:045, Section 2, a source required to conduct a performance test shall submit a completed Compliance Test Protocol form, DEP form 6028, or a test protocol a source has developed for submission to other regulatory agencies, in a format approved by the cabinet, to the Division's Frankfort Central Office a minimum of sixty (60) days prior to the scheduled test date. Pursuant to 401 KAR 50:045, Section 7, the Division shall be notified of the actual test date at least Thirty (30) days prior to the test.

   b. Pursuant to 401 KAR 50:045, Section 5, in order to demonstrate that a source is capable of complying with a standard at all times, any required performance test shall be conducted under normal conditions that are representative of the source's operations and create the highest rate of emissions. If [When] the maximum production rate represents a source's highest emissions rate and a performance test is conducted at less than the maximum production rate, a source shall be limited to a production rate of no greater than 110 percent of the average production rate during the performance tests. If and when the facility is capable of operation at the rate specified in the application, the source may retest to demonstrate compliance at the new production rate. The Division for Air Quality may waive these requirements on a case-by-case basis if the source demonstrates to the Division's satisfaction that the source is in compliance with all applicable requirements.

   c. Results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days or sooner if required by an applicable standard, after the completion of the fieldwork.

6. Acid Rain Program Requirements

   If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

7. Emergency Provisions

   a. Pursuant to 401 KAR 52:030, Section 23(1), an emergency shall constitute an affirmative defense to an action brought for noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or other relevant evidence that:
      (1) An emergency occurred and the permittee can identify the cause of the emergency;
      (2) The permitted facility was at the time being properly operated;
      (3) During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and,
      (4) The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two (2) working days of the time when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and the corrective

SECTION G - GENERAL PROVISIONS (CONTINUED)

actions taken.

(5) Notification of the Division does not relieve the source of any other local, state or federal notification requirements.

b. Emergency conditions listed in General Provision G.7.a above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:030, Section 23(3)].

c. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:030, Section 23(2)].

8. Ozone depleting substances

a. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:

(1) Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.

(2) Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.

(3) Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(4) Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166.

(5) Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.

(6) Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

b. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, *Servicing of Motor Vehicle Air Conditioners*.

9. Risk Management Provisions

a. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to U.S. EPA using the RMP* eSubmit software.

b. If requested, submit additional relevant information to the Division or the U.S. EPA.

SECTION H - ALTERNATE OPERATING SCENARIOS

None

SECTION I - COMPLIANCE SCHEDULE

None

APPENDIX E

Previous Cover Letters for Prior Applications

SHIELD
ENVIRONMENTAL ASSOCIATES, INC.

August 29, 2023

Mr. Zachary Bittner
KY Dept. for Environmental Protection
Division for Air Quality
Permit Review Branch
300 Sower Blvd. 2nd Floor
Frankfort, KY 40601

Subject: Administrative Amendment Application for Permit F-20-029
Link-Belt Cranes, L.P., LLLP
Lexington, (Fayette County), Kentucky
AI #4929, Facility ID #21-067-00017

Project No. 302-1395D

Dear Mr. Bittner:

Link-Belt Cranes, L.P., LLLP, a Delaware Limited Liability Limited Partnership (Link-Belt) is submitting Administrative Amendment Application in accordance with 401 KAR 52:030 Section 13. Link-Belt is planning to installed a new laser cutter. There are no changes to permit terms or conditions. Link-Belt wishes to remain a Conditional Major source and will continue to adhere to the current limits for particulate matter and volatile organic compounds stipulated in permit F-20-029.

Should there be any questions, please do not hesitate to contact Nicole Galavotti at (859) 294-5155 or Raymond Hayes at (859) 263-5200. Thank you.
Sincerely,

SHIELD ENVIRONMENTAL ASSOCIATES, INC.

Nicole Galavotti, P.E.
Principal, Sr. Environmental Engineer

Daniel Porter, PhD, P.E.
Environmental Engineer

cc: Raymond Hayes – Link-Belt Cranes

Attachments
Appendix A DEP7007 Forms
Appendix B Permit Markup
Appendix C Laser Equipment

Lexington
948 Floyd Drive
Lexington, KY 40505
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Louisville, KY

KY EXCEL
KENTUCKY EXCELLENCE IN ENVIRONMENTAL LEADERSHIP

SHIELD
ENVIRONMENTAL ASSOCIATES, INC.

June 5, 2024

Mr. Zachary Bittner
KY Dept. for Environmental Protection
Division for Air Quality
Permit Review Branch
300 Sower Blvd. 2nd Floor
Frankfort, KY 40601

Subject: 502(b)(10) Change Application for Permit F-20-029
Link-Belt Cranes, L.P., LLLP
Lexington, (Fayette County), Kentucky
AI #4929, Facility ID #21-067-00017

Project No. 302-1395D

Dear Mr. Bittner:

Link-Belt Cranes, L.P., LLLP, a Delaware Limited Liability Limited Partnership (Link-Belt) is submitting a 502(b)(10) change in accordance with 401 KAR 52:030 Section 17. Link-Belt plans to install a new welding machine in Bay 2. The machine will be capable of processing 85.6 pounds of weld wire per hour. This welding operation should be included in Emission Point #002 (Bay 1- Bay 5), increasing the welding machines to 126 and the total capacity to 953 lbs/hr. The installation is set to occur in June 2024. The total increase in uncontrolled and controlled emissions for the additional welding machine are listed in the tables below. Please note the HAP emissions are based on the worst-case weld wire composition for the group of welders included in EP-002, however the intended weld wire will be Lincoln Weld L-59. See attached Safety Data Sheets.

Uncontrolled Emissions (TPY)						
Emission Point #002 (Bay 1 - Bay 5)	**Rated Capacity (Lb/hr)**	**Cr**	**Mn**	**Ni**	**Total HAPs**	**PM/PM10**
125 Welding Machines	867.5	1.721	2.295	2.295	6.311	57.375
126 Welding Machines	953.1	1.891	2.521	2.521	6.934	63.036
Total Increase in Emissions (TPY)		0.170	0.226	0.226	0.623	5.661
Controlled Emissions (TPY)						
Emission Point #002 (Bay 1 - Bay 5)	**Rated Capacity (Lb/hr)**	**Cr**	**Mn**	**Ni**	**Total HAPs**	**PM/PM10**
125 Welding Machines	867.5	0.250	0.333	0.333	0.915	8.319
126 Welding Machines	953.1	0.274	0.366	0.366	1.005	9.140
Total Increase in Emissions (TPY)		0.024	0.033	0.033	0.090	0.821

Pursuant to the language in 401 KAR 52:030 Section 17 for 502(b)10 changes, the addition of this equipment is not a modification under Title I of the Act and does not exceed emissions allowed under the permit. There are no changes to permit terms or conditions. Link-Belt wishes to remain a Conditional Major source and will continue to adhere to the current limits for particulate matter and HAPs stipulated in permit F-20-029. A permit mark-up of the change is included with this submittal.

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Louisville, KY

Should there be any questions, please do not hesitate to contact Nicole Galavotti at (859) 294-5155 or Raymond Hayes at (859) 263-5200. Thank you.
Sincerely,

SHIELD ENVIRONMENTAL ASSOCIATES, INC.

Nicole Galavotti, P.E.
Principal, Sr. Environmental Engineer

Daniel Porter, PhD, P.E.
Environmental Engineer

cc: Raymond Hayes – Link-Belt Cranes

Attachments
Appendix A DEP7007 Forms
Appendix B Potential to Emit Calculations
Appendix C Permit Markup
Appendix D Weld Wire SDSs

SHIELD
ENVIRONMENTAL ASSOCIATES, INC.

July 22, 2025

Mr. Zachary Bittner
KY Dept. for Environmental Protection
Division for Air Quality
Permit Review Branch
300 Sower Blvd. 2nd Floor
Frankfort, KY 40601

Subject: 502(b)(10) Change Application for Permit F-20-029
Link-Belt Cranes, L.P., LLLP
Lexington, (Fayette County), Kentucky
AI #4929, Facility ID #21-067-00017

Project No. 302-1395D

Dear Mr. Bittner:

Link-Belt Cranes, L.P., LLLP, a Delaware Limited Liability Limited Partnership (Link-Belt) is submitting a 502(b)(10) change in accordance with 401 KAR 52:030 Section 17. Link-Belt plans to install three new welding machines. One welder in Bay 3 (EP 002) and two welders in Bay 10 (EP 29). The machine in Bay 3 is capable of processing 85.2 pounds of weld wire per hour, while the two welders in Bay 10 are each 5.5 lbs/hr. These installations are set to occur in July 2025. The total increase in uncontrolled and controlled emissions for the additional welding machines are listed in the tables below. Please note the HAP emissions are based on the worst-case weld wire composition for the group of welders included in EP 002 and EP 29, however the intended weld wire will be Lincoln Weld L-59. See attached Safety Data Sheet.

Uncontrolled Emissions (TPY)						
Emission Point #002 (Bay 1 - Bay 5)	**Rated Capacity (Lb/hr)**	**Cr**	**Mn**	**Ni**	**Total HAPs**	**PM/PM10**
126 Welding Machines	953.1	1.891	2.521	2.521	6.934	63.036
127 Welding Machines	1038.3	2.060	2.747	2.747	7.554	68.668
Total Increase in Emissions (TPY)		0.169	0.225	0.225	0.620	5.632
Controlled Emissions (TPY)						
Emission Point #002 (Bay 1 - Bay 5)	**Rated Capacity (Lb/hr)**	**Cr**	**Mn**	**Ni**	**Total HAPs**	**PM/PM10**
126 Welding Machines	953.1	0.274	0.366	0.366	1.005	9.140
127 Welding Machines	1038.3	0.299	0.398	0.398	1.095	9.957
Total Increase in Emissions (TPY)		0.025	0.033	0.033	0.090	0.817

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Uncontrolled Emissions (TPY)						
Emission Point #29 (Bay 10)	**Rated Capacity (Lb/hr)**	**Cr**	**Mn**	**Ni**	**Total HAPs**	**PM/PM10**
15 Welding Machines	142.5	0.283	0.377	0.377	1.037	9.420
17 Welding Machines	153.5	0.305	0.406	0.406	1.117	10.152
Total Increase in Emissions (TPY)		0.022	0.029	0.029	0.080	0.728
Controlled Emissions (TPY)						
Emission Point #29 (Bay 10)	**Rated Capacity (Lb/hr)**	**Cr**	**Mn**	**Ni**	**Total HAPs**	**PM/PM10**
15 Welding Machines	142.5	0.041	0.055	0.055	0.150	1.370
17 Welding Machines	153.5	0.044	0.059	0.059	0.162	1.472
Total Increase in Emissions (TPY)		0.003	0.004	0.004	0.012	0.105

Pursuant to the language in 401 KAR 52:030 Section 17 for 502(b)10 changes, the addition of this equipment is not a modification under Title I of the Act and does not exceed emissions allowed under the permit. There are no changes to permit terms or conditions. Link-Belt wishes to remain a Conditional Major source and will continue to adhere to the current limits for particulate matter and HAPs stipulated in permit F-20-029.

Should there be any questions, please do not hesitate to contact Nicole Galavotti at (859) 294-5155 or Raymond Hayes at (859) 263-5200. Thank you.
Sincerely,

SHIELD ENVIRONMENTAL ASSOCIATES, INC.

Nicole Galavotti, P.E.
Principal, Sr. Environmental Engineer

Daniel Porter, PhD, P.E.
Environmental Engineer

cc: Raymond Hayes – Link-Belt Cranes

Attachments
Appendix A DEP7007 Form
Appendix B Weld Wire SDSs

APPENDIX F

Air Toxics Screening Results - Naphthalene

Link- Belt Cranes - EP 28A

General Worst Case Painting				
	inputs		inputs (metric)	
h_s =	57	(ft)	17.3736	(m)
V =	13596	(scfm)	6.41636028	(m3/s)
d_s =	3	(ft)	0.9144	(m)
v_s =	32.05734232	(ft/s)	9.771077938	(m/s)
T_s =	73	(°F)	295.7777778	(K)
Q =	1	(lbs/hr)	0.125997222	(g/s)

Air Toxic Analysis

Toxics	PTE Emission Rate lb/hr	Screen 3 Max. 1-hr Concentration µg/m³	Screen 3 Max. Annual Concentration µg/m³	Modeled Impact µg/m³	LOC* Carcinogenic µg/m³	LOC* Non-Cancer µg/m³	Is Modeled Impact<LOC	Comments
Naphthalene	0.273	2.48157	0.1985256	0.1985256	0.082	0.31	NO	
Naphthalene passes at the rate 0.11 lb/hr	0.11	0.9999	0.079992	0.079992	0.082	0.31	YES	

RSL used resident ambient air for Noncarcinogenic SL (THI=0.1)

distance to fence line **268 m**

From SCREEN 3 for general w 250.00 meters for 1 lb/hr toxic is 9.09 UG/M^3

Worst Case PTE	Proposed Limit	Units
0.273	0.11	lbs/hr
1.19574	0.4818	tons/yr
2391.48	963.6	lbs/yr

07/24/25
10:01:36

```
 ***  SCREEN3 MODEL RUN  ***
 *** VERSION DATED 13043 ***

C:\Users\DanielP\Desktop\Modeling\LB renewal.scr

SIMPLE TERRAIN INPUTS:
   SOURCE TYPE            =        POINT
   EMISSION RATE (G/S)    =     0.125998
   STACK HEIGHT (M)       =      17.3736
   STK INSIDE DIAM (M)    =       0.9144
   STK EXIT VELOCITY (M/S)=       9.7688
   STK GAS EXIT TEMP (K)  =     295.9278
   AMBIENT AIR TEMP (K)   =     293.0000
   RECEPTOR HEIGHT (M)    =       0.0000
   URBAN/RURAL OPTION     =        RURAL
   BUILDING HEIGHT (M)    =       0.0000
   MIN HORIZ BLDG DIM (M) =       0.0000
   MAX HORIZ BLDG DIM (M) =       0.0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.


BUOY. FLUX =    0.198 M**4/S**3;  MOM. FLUX =   19.751 M**4/S**2.

*** FULL METEOROLOGY ***

**********************************
*** SCREEN AUTOMATED DISTANCES ***
**********************************

*** TERRAIN HEIGHT OF    0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

  DIST     CONC             U10M   USTK  MIX HT   PLUME   SIGMA   SIGMA
   (M)   (UG/M**3)   STAB  (M/S)  (M/S)    (M)   HT (M)   Y (M)   Z (M)  DWASH
-------  ----------  ----  -----  -----  ------  ------  ------  ------  -----
     1.    0.000        1     1.0    1.0   320.0   43.16    1.92    1.89    NO
   100.    6.270        1     3.0    3.1   960.0   25.97   26.97   14.16    NO
   200.    9.116        1     1.0    1.0   320.0   43.16   50.51   30.21    NO
   300.    9.241        3     2.0    2.1   640.0   30.05   34.48   20.65    NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND     1. M:
   353.    9.510        3     1.5    1.6   480.0   34.28   40.21   24.14    NO

 DWASH=   MEANS NO CALC MADE (CONC = 0.0)
 DWASH=NO MEANS NO BUILDING DOWNWASH USED
 DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED
 DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED
```

DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

****
*** SCREEN DISCRETE DISTANCES ***
****

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
25.	0.3717E-05	1	3.0	3.1	960.0	25.97	7.96	4.28	NO
50.	0.3629	1	3.0	3.1	960.0	25.97	14.60	7.65	NO
75.	3.321	1	3.0	3.1	960.0	25.97	20.88	10.91	NO
100.	6.270	1	3.0	3.1	960.0	25.97	26.97	14.16	NO
125.	7.926	1	2.0	2.1	640.0	30.26	33.01	18.03	NO
150.	8.713	1	1.5	1.6	480.0	34.56	38.94	21.95	NO
175.	9.109	1	1.5	1.6	480.0	34.56	44.62	25.79	NO
200.	9.116	1	1.0	1.0	320.0	43.16	50.51	30.21	NO
225.	9.097	1	1.0	1.0	320.0	43.16	56.00	34.26	NO
250.	9.090	2	1.5	1.6	480.0	34.56	44.54	25.67	NO
275.	9.055	3	2.0	2.1	640.0	30.05	31.86	19.12	NO
300.	9.241	3	2.0	2.1	640.0	30.05	34.48	20.65	NO
325.	9.409	3	1.5	1.6	480.0	34.28	37.22	22.40	NO
350.	9.510	3	1.5	1.6	480.0	34.28	39.80	23.90	NO

DWASH= MEANS NO CALC MADE (CONC = 0.0)
DWASH=NO MEANS NO BUILDING DOWNWASH USED
DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED
DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED
DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

****
*** SUMMARY OF SCREEN MODEL RESULTS ***
****

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	9.510	353.	0.

****
** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **
****