Air Quality Operating Permit Application Form

Lincoln-Lancaster County Health Department
Environmental Public Health Division - Air Quality Program
Lincoln, NE 68510
ph: (402) 441-8040 fax: (402) 441-3890
http://www.lincoln.ne.gov/city/health/environ/air.htm

Purpose of Application:

- ☐ Initial Operating Permit
- ☐ Operating Permit Modification
- ☑ Operating Permit Renewal
- ☑ Revise Previously Submitted Application

SECTION 1: ADMINISTRATIVE INFORMATION AND RESPONSIBLE OFFICIAL CERTIFICATION

Part A: Company Information

Company Name:	The Cleaver-Brooks Company, Inc.				
Company Address:	6940 Cornhusker Hwy				
Company City:	Lincoln	**Company State:**	Nebraska	**Company ZIP:**	68507
Is the business incorporated?	☑ Yes ☐ No	**If so, name the state where incorporated:**	Delaware		

Part B: General Facility Information

Facility Name:	The Cleaver-Brooks Company, Inc.				
LLCHD Facility ID #:	00299				
Facility Physical Address:	6940 Cornhusker Hwy				
Facility City:	Lincoln	**Facility State:**	Nebraska	**Facility ZIP:**	68507
Facility NAICS Code(s):	332410	Power Boiler and Heat Exchanger Manufacturing			
	332439	Other Metal Container Manufacturing			
Is the facility located within 50 miles of another state?	☑ Yes ☐ No	**If so, which state(s)?**	☑ Iowa ☐ Kansas ☑ Missouri		
Is the facility located on leased property?	☐ Yes ☑ No				

Part C: Contact Information

Facility Contact Person:	Doug Hansen		
Facility Contact Person Title or Responsibility:	Manufacturing Operations Manager		
Phone Number:	(402) 434-2009	**E-Mail:**	dhansen@cleaverbrooks.com
Alternate Phone Number: *(optional)*	(402) 613-1502	**Fax Number:** *(optional)*	
Who is the primary contact for questions regarding this application?	☐ Facility Contact Person ☑ Other	**If other, provide the following information:**	
Primary Contact Person:	Eric Sturm - ARC, Owner-Lead Consultant		
Primary Contact Person Company: (if different)	Air Regulations Consulting, LLC (ARC)		
Phone Number:	(402) 817-7887	**E-Mail:**	eric@airregconsulting.com
Alternate Phone Number: (optional)	(402) 310-4211	**Fax Number: (optional)**	(855) 792-5366

SECTION 1: ADMINISTRATIVE INFORMATION AND RESPONSIBLE OFFICIAL CERTIFICATION

Part D: Permit Information

Does this facility currently hold an operating permit issued by the LLCHD?		☑ **Yes**	☐ **No**
If so, what type of operating permit does the facility hold?	☐ **Class I (Title V) - Major Source** ☑ **Class II - Synthetic Minor Source**	☐ **Class II - Minor Source**	
What is the expiration date of the operating permit you currently hold?		10/1/2022	
Does this facility currently hold one or more construction permits issued by the LLCHD?		☑ **Yes**	☐ **No**
If so, list the numbers for all currently effective construction permits. Do not include superceded permits.	163		
If you know what type of permit you are applying for, check the appropriate box:	☐ **Class I (Title V) - Major Source** ☑ **Class II - Synthetic Minor Source**	☐ **Class II - Minor Source** ☐ **I do not know permit type.**	

Part E: Responsible Official Certification

Compliance Certification ☑ **Agree** ☐ **Disagree**	I hereby certify that, based on information and belief formed after reasonable inquiry, the facility that emits air pollutants, which is identified in this application and that is subject to the applicable requirements identified in Section 9: 1. Is in compliance with all applicable requirements, except as described in Section 9; 2. Will continue to comply with all applicable requirements for which compliance has been achieved; and, 3. Will comply with all applicable requirements for which compliance is not currently achieved
Truth and Accuracy Certification ☑ **Agree** ☐ **Disagree**	I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this Air Quality Operating Permit application are true, complete, and accurate. I certify that all hard copies of this application are identical in content.
Electronic Copy Certification ☑ **Agree** ☐ **Disagree** ☐ **Not Applicable**	I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in the electronic copy of the Air Quality Operating Permit application are identical in content to the hard copy submittal.
Citizenship Attestation ☑ **Agree** ☐ **Disagree**	For the purpose of complying with Neb. Rev. Stat. §§4-108 through 4-114, I attest as follows *(check one)*: ☑ **I am a citizen of the United States.** OR ☐ **I am a qualified alien under the federal Immigration and Nationality Act, and will provide my immigration status, alien number, and USCIS documentation upon request.** I hereby attest that my responses and the information provided on this form and any related application for public benefits are true, complete, and accurate, and I understand that this information may be used to verify my lawful presence in the United States.
Responsible Official Name: (printed or typed)	Scott Hollman
Responsible Official Title:	Director of Operations
Responsible Official Signature:	
Date:	January 31, 2022

SECTION 2: DETAILED SOURCE INFORMATION

Part A: Operating Schedule

Is this source operated seasonally, or year-round?	☐ Seasonal ☑ Year-Round		
Provide the normal operating schedule:		**Hours per Day:**	**18**
		Days per Week:	**5**
		Weeks per Year:	**52**
Does the source operate under an alternative schedule on a regular basis?	☑ Yes ☐ No	**If Yes, provide the following requested information.**	
Describe the reason or circumstances under which the source utilizes the alternative schedule:	**Based on market demand, a third or weekend shift may be added to all for continuous operation and manu**		
Provide the alternative operating schedule:		**Hours per Day:**	**24**
		Days per Week:	**7**
		Weeks per Year:	**52**

Part B: Facility Description

On separate sheet(s) of paper, provide a detailed narrative description of the facility. Explain the stages in each process that may result in the discharge of an air pollutant. Include all emission points, emission units, pollution control equipment, and identification numbers. The narrative should complement the facility layout and process flow diagrams.

Is a Facility Description attached to your application?	☑ Yes ☐ No	

Part C: Facility Layout Diagram

On a separate sheet(s) of paper, provide a detailed diagram or site drawing that includes all buildings, stacks, emission points and units, control equipment, tanks, etc. identified in this application. Make sure all elements in the drawing are properly identified, drawn to scale, and consistent with other sections of this application. The facility diagram should show the location of all buildings, structures, stacks, and property boundaries. Fences or other public access restrictions should be shown or identified and described. Be sure to identify adjacent roads and include a north arrow. Include an effective date for the diagram.

Is a Facility Layout Diagram included with your application?	☑ Yes ☐ No	

Part D: Process Flow Diagram

On separate sheet(s) of paper, provide a detailed narrative description of the facility. Explain the stages in each process that may result in the discharge of an air pollutant. Include all emission points, emission units, pollution control equipment, and identification numbers. The narrative should complement the facility layout and process flow diagrams.

Is a Process Flow Diagram included with your application?	☑ Yes ☐ No	

SECTION 2: DETAILED SOURCE INFORMATION

Part E: Emission Calculations

Indicate which method(s) will be used to calculate emissions: (check all that apply)

☑ **AP-42 or WebFIRE Emission Factors**	
☑ **Emission Factors from Stack Testing ***	
☑ **Material Mass-Balance Calculations ***	
☑ **Other** (specify >>>>) *	Vendor/Equipment Manufacturer Specfication
☑ **Other** (specify >>>>) *	California Air Resources Board (CARB) - CEIDARS
☐ **Other** (specify >>>>) *	

If using emission factors or calculation methods other than those provided in AP-42 or WebFIRE, attach a copy of any alternate emission factors (including stack test results) and/or emission calculations as an attachment to this application.

Indicate how material and/or fuel use will be substantiated:

☑ **Material / Fuel Supplier Record(s)**	
☑ **Material / Fuel Use Logbook(s)**	
☐ **Receiving / Load-Out Scale Tickets**	
☑ **Other** (specify >>>>)	Weld Wire Usage
☑ **Other** (specify >>>>)	Safety Data Sheets (SDS)
☑ **Other** (specify >>>>)	Purchasing/Production Records

SECTION 3 – EMISSION POINT SUMMARY

Table 3-A: Emission Unit Identification

Emission Unit #		Source Classification Code # (SCC)	Emission Point Description	Emission Segment Description
Point #	Segment #			
1	1	3-09-002-02	Indoor Booth - Blasting	Abrasive Media
2	1	4-02-025-01	Indoor Booth – Spray Coating	Surface Coating
3	1	3-99-006-01	Annealing Oven (20.0 MMBtu/hr)	Natural Gas
6	1	3-09-050-00	Arc Welding	Welding Wire
7	1	3-09-047-00	Arc Cutting	Metal
8	1	3-09-030-05	Abrasive Saws	Metal
9	1	3-04-010-11	Grinding/Sanding Machines/Tube Cleaning	Metal

SECTION 3 – EMISSION POINT SUMMARY

Table 3-B: Stack / Release Point Information

** Stack information not required for fugitive sources.*

Emission Unit #	Associated Emission Unit	Latitude (decimal deg.)	Longitude (decimal deg.)	Elevation (feet a.s.l.)	Stack Height (feet)	Stack Inside Diameter (feet)	Exhaust Temp. (°F)	Exhaust Exit Velocity (feet/sec)	Exhaust Flow Rate (cu. feet/sec)	Vertical, Horizontal, or Fugitive	Raincap Present?
1-1	Indoor Booth - Blasting	40.870811	-96.627667	1,145.00	40.00	4.00	70.00	80.00	1,005.31	Vertical	Yes
2-1	Indoor Booth – Spray Coat…	40.870811	-96.627033	1,145.00	40.00	4.00	70.00	80.00	1,005.31	Vertical	Yes
3-1	Annealing Oven (20.0 MMBt…	40.870278	-96.626744	1,147.00	62.00	2.00	650.00	56.00	175.93	Vertical	No
6-1	Arc Welding									Fugitive	
7-1	Arc Cutting									Fugitive	
8-1	Abrasive Saws									Fugitive	
9-1	Grinding/Sanding Machines…									Fugitive	

SECTION 4 – INSIGNIFICANT ACTIVITIES

Table 4-A: Insignificant Activities List

Insignificant Activity Type	Description of Insignificant Activity
C.3. Space Heater/Air Make-up	3x 440,000 Btu/hr Gas Door Heater
C.3. Space Heater/Air Make-up	7x 400,000 Btu/hr Space Heater
C.3. Space Heater/Air Make-up	2x 250,000 Btu/hr Space Heater
B.2. Hand Held Grinding/Cutting/Sawing	Abrasive Saw in Shipping Area
B.2. Hand Held Grinding/Cutting/Sawing	Metal Grinding
B.3. Hand Held Torch Cutting/Welding	Torch Cutting
B.3. Hand Held Torch Cutting/Welding	Carbon Arc Gouging
A.35. Water Heater	1,000,000 Btu/hr Natural Gas Water Heater
Refractory Process	Insignificant Activity per Article 2, Section 7 (F)(3)(b)

SECTION 5 – MAXIMUM POTENTIAL TO EMIT (MPTE)

Table 5-A: Facility-Wide MPTE – Regulated Air Pollutant Emissions

Please list maximum potential emissions of all pollutants for each emission unit in pounds per year.

Emission Unit #	SCC Code	Hourly Process Rate	Process Rate Units	Max Annual Throughput	Emission Factor Source	PM_{10}	$PM_{2.5}$	NOx	SOx	VOC	CO	GHGs (CO_2e)	LEAD	Total HAP
1-1	3-09-002-02	3,600	lbs	3.15E+07	Other	47.60	43.80	-	-	-	-	-	-	-
2-1	4-02-025-01	1.05	gal	9,198	Mass Balance	1,040	1,000	-	-	9,635	-	-	-	20,000
3-1	3-99-006-01	20.00	MMBtu	175,200	AP-42	1,300	1,300	17,180	103.00	940.00	14,420	2.1E+07	0.09	324.37
6-1	3-09-050-00	80.00	lbs	700,800	AP-42	12,880	12,180	-	-	-	-	-	-	700.00
7-1	3-09-047-00	1,560	grams	1.37E+07	AP-42	15,360	15,360	8,289	-	-	-	-	-	400.00
8-1	3-09-030-05	514.00	lbs	4.50E+06	AP-42	16,400	15,410	-	-	-	-	-	-	440.00
9-1	3-04-010-11	514.00	lbs	4.50E+06	AP-42	16,400	15,410	-	-	-	-	-	-	440.00

Construction Permit No. 163 limits the total HAP from EU 2-1 to less than 10 tons per year. For more detail on HAP emissions, refer to attached appendices.

SECTION 5 – MAXIMUM POTENTIAL TO EMIT (MPTE)

Table 5-B: Facility-Wide MPTE – VOC Emissions from VOC-Containing Materials

Please list the maximum throughput of all materials used that contain Volatile Organic Compounds, and show amount of VOC emitted.

Material Name	Manufacturer	Emission Unit #(s)	Material Purpose	Material Throughput (gallons)	Product Density (lbs/gallon)	VOC Content (select one) (weight %)	VOC Content (select one) (lbs/gallon)	Total VOC (pounds)	Release Factor (% release)	Total VOC Emissions (pounds)
Lacquer Thinner	-	2-1	Surface Coating	418	6.64		5.32	2,223.8	0.00%	0.0
Mineral Spirits	Heritage Crystal Clean	2-1	Surface Coating	1,611	8.20		8.20	13,210.2	0.00%	0.0
Xylol Thinner	-	2-1	Surface Coating	1,611	7.17		7.17	11,550.9	0.00%	0.0
Acrolon 218 Hardener	-	2-1	Surface Coating	1,611	9.41		0.00	0.0	0.00%	0.0
Genesis M	-	2-1	Surface Coating	1,611	11.00		2.40	3,866.4	60.00%	2,319.8
Heat-Flex-Hi-Temp 1200	-	2-1	Surface Coating	1,611	16.40		3.20	5,155.2	83.00%	4,278.8
Sherwin Williams Pure White	-	2-1	Surface Coating	1,611	9.70		2.67	4,301.4	60.00%	2,580.8
Flame Control 850	-	2-1	Surface Coating	1,611	9.59		5.85	9,424.4	50.00%	4,712.2
Macropoxy 646 A	-	2-1	Surface Coating	1,611	12.41		2.09	3,367.0	53.00%	1,784.5
Macropoxy 646 B	-	2-1	Surface Coating	1,611	13.46		1.63	2,625.9	72.00%	1,890.7
Steel Spec Primer Red	-	2-1	Surface Coating	1,611	13.29		2.71	4,365.8	80.00%	3,492.6
Ultra-Fill P50 Primer	-	2-1	Surface Coating	1,611	13.53		3.82	6,154.0	47.00%	2,892.4
Zinc Clad Part E	-	2-1	Surface Coating	1,611	8.17		5.10	8,216.1	14.00%	1,150.3
Zinc Powder	-	2-1	Surface Coating	1,611	58.60		0.00	0.0	100.00%	0.0

SECTION 5 – MAXIMUM POTENTIAL TO EMIT (MPTE)

For a complete list of EPA regulated Hazardous Air Pollutants, including CAS Numbers, click here.

Table 5-C: Facility-Wide MPTE - HAP Emissions from HAP-Containing Materials

Please list the maximum throughput of all materials used that contain Hazardous Air Pollutants (HAP) and show amount of HAP emitted.

Material Name	HAP Name	HAP CAS #	Emission Unit #(s)	Material Throughput	Throughput Units	Individual HAP Content	HAP Content Units	Product Density (lbs/gallon)	Individual HAP Throughput (pounds)	Release Factor (% release)	Total HAP Emissions (pounds)
Lacquer Thinner	Toluene	108-88-3	2-1	418	gallons	31.00	weight %	6.64	860.4	0.00%	
Lacquer Thinner	Ethylbenzene	100-41-4	2-1	418	gallons	0.80	weight %	6.64	22.2	0.00%	
Lacquer Thinner	Xylene	1330-20-7	2-1	418	gallons	5.00	weight %	6.64	138.8	0.00%	
Lacquer Thinner	Methanol	67-56-1	2-1	418	gallons	4.00	weight %	6.64	111.0	0.00%	
Acrolon 218 Hardener	Hazamethylene Diisocyar	822-06-0	2-1	1,611	gallons	1.00	weight %	9.41	151.6	0.00%	
Acrolon 218 Gloss A	Ethylbenzene	100-41-4	2-1	1,611	gallons	0.40	weight %	10.64	68.6	3.30%	2.3
Acrolon 218 Gloss A	Xylene	1330-20-7	2-1	1,611	gallons	2.00	weight %	10.64	342.8	3.30%	11.3
Acrolon 218 Gloss A	Naphthalene	91-20-3	2-1	1,611	gallons	0.20	weight %	10.64	34.3	3.30%	1.1
Acrolon 218 Gloss A	Unspecified Aromatics	8007-22-5	2-1	1,611	gallons	1.00	weight %	10.64	171.4	3.30%	5.7
Genesis M	Nickel Antimony Titanate	12653-76-8	2-1	1,611	gallons	33.00	weight %	11.00	5,847.9	6.60%	386.0
Heat-Flex Hi-Temp 1200	Xylene	1330-20-7	2-1	1,611	gallons	10.00	weight %	16.40	2,642.0	13.61%	359.6
Heat-Flex Hi-Temp 1200	Solvent naphtha	64742-94-5	2-1	1,611	gallons	10.00	weight %	16.40	2,642.0	13.61%	359.6
Heat-Flex Hi-Temp 1200	Ethylbenzene	100-41-4	2-1	1,611	gallons	10.00	weight %	16.40	2,642.0	13.61%	359.6
Heat-Flex Hi-Temp 1200	Methyl n-Amyl Ketone	110-43-0	2-1	1,611	gallons	10.00	weight %	16.40	2,642.0	13.61%	359.6
Sherwin Williams Pure White	Ethylbenzene	100-41-4	2-1	1,611	gallons	0.20	weight %	9.70	31.3	5.82%	1.8
Flame Control 850	Xylene	1330-20-7	2-1	1,611	gallons	60.00	weight %	9.59	9,269.7	4.80%	444.9
Flame Control 850	Ethylbenzene	100-41-4	2-1	1,611	gallons	1.00	weight %	9.59	154.5	4.80%	7.4
Mecropoxy 646 A	Ethylbenzene	100-41-4	2-1	1,611	gallons	3.00	weight %	12.41	599.8	6.58%	39.5
Macropoxy 646 A	Xylene	1330-20-7	2-1	1,611	gallons	14.00	weight %	12.41	2,799.0	6.58%	184.2
Macropoxy 646 B	Ethylbenzene	100-41-4	2-1	1,611	gallons	0.30	weight %	13.46	65.1	9.69%	6.3
Macropoxy 646 B	Xylene	1330-20-7	2-1	1,611	gallons	2.00	weight %	13.46	433.7	9.69%	42.0
Macropoxy 646 B	Methyl Isobutyl Ketone	108-10-1	2-1	1,611	gallons	10.00	weight %	13.46	2,168.4	9.69%	210.1
Steel Spec Primer Red	Ethylbenzene	100-41-4	2-1	1,611	gallons	3.00	weight %	13.29	642.3	10.58%	68.0
Steel Spec Primer Red	Xylene	1330-20-7	2-1	1,611	gallons	14.00	weight %	13.29	2,997.4	10.58%	317.1
Zinc Clad Part E	Ethylbenzene	100-41-4	2-1	1,611	gallons	4.00	weight %	8.17	526.5	1.14%	6.0
Zinc Clad Part E	Xylene	1330-20-7	2-1	1,611	gallons	23.00	weight %	8.17	3,027.2	1.14%	34.5
Zinc Clad Part E	Methanol	67-56-1	2-1	1,611	gallons	1.00	weight %	8.17	131.6	1.14%	1.5
Zinc Clad Part E	Methyl Isobutyl Ketone	108-10-1	2-1	1,611	gallons	2.00	weight %	8.17	263.2	1.14%	3.0

SECTION 5 – MAXIMUM POTENTIAL TO EMIT (MPTE)

Table 5-D: Maximum Potential to Emit and Operating Permit Thresholds

Criteria Pollutant Name	Emissions (tons per year)	Class II Permitting Threshold (tons per year)	Meet or Exceed?	Class I Permitting Threshold (tons per year)	Meet or Exceed?
PM_{10}	31.71	15.0	**Yes**	100.0	No
$PM_{2.5}$	30.35				
NOx	12.73	40.0	No	100.0	No
SOx	0.05	40.0	No	100.0	No
VOC	5.29	40.0	No	100.0	No
CO	7.21	50.0	No	100.0	No
Lead	0.00	0.6	No	5.0	No
GHGs	10,306.00				

HAP Category	Emissions (tons per year)	Class II Permitting Threshold (tons per year)	Meet or Exceed?	Class I Permitting Threshold (tons per year)	Meet or Exceed?
Greatest Single HAP	2.50	2.5	**Yes**	10.0	No
Total Combined HAP	11.15	10.0	**Yes**	25.0	No

SECTION 6: DETERMINATION OF SOURCE CLASS

Part A: Operating Permit Class

The maximum potential emissions from your facility exceed Class II permitting thresholds. Proceed to Part D of this section, below.

	☐ Yes	☐ No
	☐ Yes	☐ No

Part B: Source Elected Requirements for Synthetic Minor Sources

Not applicable.

Not applicable.

Not Applicable.	☐ Yes	☐ No
Not Applicable.	☐ Yes	☐ No

Part C: Source Elected Requirements for Synthetic Area Sources of HAPs

Not Applicable.

Not Applicable.

Not Applicable.	☐ Yes	☐ No
Not Applicable.	☐ Yes	☐ No

Part D: Source Elected Requirements for Actual Emission Reductions		
All sources that are required to hold an operating permit are required to pay an annual emission fee based on actual pollutant emissions. **You may agree to control requirements in order to reduce actual emissions of pollutants to the atmosphere, thereby reducing the annual emission fees. Check the following, as applicable.**		
Do you agree to accept control requirements to reduce actual pollutant emissions?	☑ **Yes**	☐ **No**
Sources may also agree to throughput limits in their permit to prevent the possibility of exceeding permit thresholds. Check the following, as applicable.		
Do you agree to accept throughput limits to prevent possible exceedances of permit thresholds?	☐ **Yes**	☑ **No**
Indicate in Table 6-A what throughput limits you will agree to accept.		

SECTION 6 – DETERMINATION OF SOURCE CLASS

Table 6-A: Source-Elected Throughput Limits and Emission Control Requirements

In the table below, indicate which emission units you will either accept throughput limits on, or to which you will agree to apply control equipment.

Emission Unit #	SCC Code	Agree to Throughput Limit?	Maximum Annual Throughput	Annual Throughput Limit	Throughput Units	Agree to Emission Controls?	Control Device ID	Control Type	If 'Other', Specify Type
1-1	3-09-002-02	No	3.15E+07		lbs/yr	Yes	CE 1-1	Fabric Filter	
2-1	4-02-025-01	No	9,198		gal/yr	Yes	CE 2-1	Fabric Filter	
3-1	3-99-006-01	No	175,200		MMBtu/yr	No			
6-1	3-09-050-00	No	700,800		lbs/yr	No			
7-1	3-09-047-00	No	1.37E+07		grams/yr	No			
8-1	3-09-030-05	No	4.50E+06		lbs/yr	Yes	Building	Process Partial Enclosed	
9-1	3-04-010-11	No	4.50E+06		lbs/yr	Yes	Building	Process Partial Enclosed	

SECTION 7 – ACTUAL POTENTIAL TO EMIT (APTE)

Table 7-A: Facility-Wide APTE – Regulated Air Pollutant Emissions

Shown below is your source's potential emissions after applying any operational limits or control equipment you elected in Section 6. Emissions are in units of pounds.

Emission Unit #	SCC Code	Annual Throughput	Throughput Units	PM_{10}	$PM_{2.5}$	NOx	SOx	VOC	CO	GHGs (CO_2e)	LEAD	Total HAP
1-1	3-09-002-02	3.15E+07	lbs/yr	2.38	2.19	-	-	-	-	-	-	-
2-1	4-02-025-01	9,198	gal/yr	52.00	50.00	-	-	9,635	-	-	-	20,000
3-1	3-99-006-01	175,200	MMBtu/yr	1,300	1,300	17,180	103.00	940.00	14,420	2.06E+07	0.09	324.37
6-1	3-09-050-00	700,800	lbs/yr	12,880	12,180	-	-	-	-	-	-	700.00
7-1	3-09-047-00	1.37E+07	grams/yr	15,360	15,360	8,289	-	-	-	-	-	400.00
8-1	3-09-030-05	4.50E+06	lbs/yr	9,840	9,246	-	-	-	-	-	-	440.00
9-1	3-04-010-11	4.50E+06	lbs/yr	9,840	9,246	-	-	-	-	-	-	440.00

SECTION 7 – ACTUAL POTENTIAL TO EMIT (APTE)

Table 7-B: Facility-Wide APTE – VOC Emissions from VOC-Containing Materials

Please indicate whether you are accepting throughput limits or emission control requirements for VOC-containing materials. Emissions will be calculated in units of pounds.

Material Name – Manufacturer: Purpose	Emission Unit #(s)	Maximum Annual Throughput (gallons)	Agree to Throughput Limit? (Yes or No)	Annual Throughput Limit (gallons)	Total VOC (pounds)	Release Factor (% release)	Agree to Control Emissions? (Yes or No)	Control Device Type	Total VOC Emissions (pounds)
Lacquer Thinner -- -: Surface Coating	2-1	418	Yes	500	2,660.0	0.00%	Yes	Other	0.0
Mineral Spirits -- Heritage Crystal Clean: Surface Coating	2-1	1,611	Yes	2,000	16,400.0	0.00%	Yes	Other	0.0
Xylol Thinner -- -: Surface Coating	2-1	1,611	Yes	2,000	14,340.0	0.00%	Yes	Other	0.0
Acrolon 218 Hardener -- -: Surface Coating	2-1	1,611	Yes	2,000	0.0	0.00%	Yes	Other	0.0
Genesis M -- -: Surface Coating	2-1	1,611	Yes	2,000	4,800.0	60.00%	Yes	Other	2,880.0
Heat-Flex-Hi-Temp 1200 -- -: Surface Coating	2-1	1,611	Yes	2,000	6,400.0	83.00%	Yes	Other	5,312.0
Sherwin Williams Pure White -- -: Surface Coating	2-1	1,611	Yes	2,000	5,340.0	60.00%	Yes	Other	3,204.0
Flame Control 850 -- -: Surface Coating	2-1	1,611	Yes	2,000	11,700.0	50.00%	Yes	Other	5,850.0
Macropoxy 646 A -- -: Surface Coating	2-1	1,611	Yes	2,000	4,180.0	53.00%	Yes	Other	2,215.4
Macropoxy 646 B -- -: Surface Coating	2-1	1,611	Yes	2,000	3,260.0	72.00%	Yes	Other	2,347.2
Steel Spec Primer Red -- -: Surface Coating	2-1	1,611	Yes	2,000	5,420.0	80.00%	Yes	Other	4,336.0
Ultra-Fill P50 Primer -- -: Surface Coating	2-1	1,611	Yes	2,000	7,640.0	47.00%	Yes	Other	3,590.8
Zinc Clad Part E -- -: Surface Coating	2-1	1,611	Yes	2,000	10,200.0	14.00%	Yes	Other	1,428.0
Zinc Powder -- -: Surface Coating	2-1	1,611	Yes	2,000	0.0	100.00%	Yes	Other	0.0

SECTION 7 – ACTUAL POTENTIAL TO EMIT (APTE)

Table 7-C: Facility-Wide APTE – HAP Emissions from HAP-Containing Materials

Please indicate whether you are accepting throughput limits or emission control requirements for HAP-containing materials. Emissions will be calculated in units of pounds.

Material Name	HAP Name	CAS #	Emission Unit #(s)	Agree to Throughput Limit? (Yes or No)	Agree to Control Emissions? (Yes or No)	Maximum Annual Material Throughput	Material Throughput Units	Annual Throughput Limit	Control Device Type	Release Factor (% release)	Individual HAP Emissions (pounds)
Lacquer Thinner	Toluene	108-88-3	2-1	No	Yes	418	gallons		Other		
Lacquer Thinner	Ethylbenzene	100-41-4	2-1	No	Yes	418	gallons		Other		
Lacquer Thinner	Xylene	1330-20-7	2-1	No	Yes	418	gallons		Other		
Lacquer Thinner	Methanol	67-56-1	2-1	No	Yes	418	gallons		Other		
Acrolon 218 Hardener	Hazamethylene Diisocyar	822-06-0	2-1	No	Yes	1,611	gallons		Other		
Acrolon 218 Gloss A	Ethylbenzene	100-41-4	2-1	No	Yes	1,611	gallons		Other	3.30%	
Acrolon 218 Gloss A	Xylene	1330-20-7	2-1	No	Yes	1,611	gallons		Other	3.30%	
Acrolon 218 Gloss A	Naphthalene	91-20-3	2-1	No	Yes	1,611	gallons		Other	3.30%	
Acrolon 218 Gloss A	Unspecified Aromatics	8007-22-5	2-1	No	Yes	1,611	gallons		Other	3.30%	
Genesis M	Nickel Antimony Titanate	12653-76-8	2-1	No	Yes	1,611	gallons		Other	6.60%	
Heat-Flex Hi-Temp 1200	Xylene	1330-20-7	2-1	No	Yes	1,611	gallons		Other	13.61%	
Heat-Flex Hi-Temp 1200	Solvent naphtha	64742-94-5	2-1	No	Yes	1,611	gallons		Other	13.61%	
Heat-Flex Hi-Temp 1200	Ethylbenzene	100-41-4	2-1	No	Yes	1,611	gallons		Other	13.61%	
Heat-Flex Hi-Temp 1200	Methyl n-Amyl Ketone	110-43-0	2-1	No	Yes	1,611	gallons		Other	13.61%	
Sherwin Williams Pure White	Ethylbenzene	100-41-4	2-1	No	Yes	1,611	gallons		Other	5.82%	
Flame Control 850	Xylene	1330-20-7	2-1	No	Yes	1,611	gallons		Other	4.80%	
Flame Control 850	Ethylbenzene	100-41-4	2-1	No	Yes	1,611	gallons		Other	4.80%	
Mecropoxy 646 A	Ethylbenzene	100-41-4	2-1	No	Yes	1,611	gallons		Other	6.58%	
Macropoxy 646 A	Xylene	1330-20-7	2-1	No	Yes	1,611	gallons		Other	6.58%	
Macropoxy 646 B	Ethylbenzene	100-41-4	2-1	No	Yes	1,611	gallons		Other	9.69%	
Macropoxy 646 B	Xylene	1330-20-7	2-1	No	Yes	1,611	gallons		Other	9.69%	
Macropoxy 646 B	Methyl Isobutyl Ketone	108-10-1	2-1	No	Yes	1,611	gallons		Other	9.69%	
Steel Spec Primer Red	Ethylbenzene	100-41-4	2-1	No	Yes	1,611	gallons		Other	10.58%	
Steel Spec Primer Red	Xylene	1330-20-7	2-1	No	Yes	1,611	gallons		Other	10.58%	
Zinc Clad Part E	Ethylbenzene	100-41-4	2-1	No	Yes	1,611	gallons		Other	1.14%	
Zinc Clad Part E	Xylene	1330-20-7	2-1	No	Yes	1,611	gallons		Other	1.14%	
Zinc Clad Part E	Methanol	67-56-1	2-1	No	Yes	1,611	gallons		Other	1.14%	
Zinc Clad Part E	Methyl Isobutyl Ketone	108-10-1	2-1	No	Yes	1,611	gallons		Other	1.14%	

SECTION 7 – ACTUAL POTENTIAL TO EMIT (APTE)

Table 7-D: Actual Potential to Emit and Operating Permit Thresholds

Criteria Pollutant Name	Emissions (tons per year)	Class II Permitting Threshold (tons per year)	Meet or Exceed?	Class I Permitting Threshold (tons per year)	Meet or Exceed?
PM_{10}	24.64	15.0	**Yes**	100.0	No
$PM_{2.5}$	23.69				
NOx	12.73	40.0	No	100.0	No
SOx	0.05	40.0	No	100.0	No
VOC	5.29	40.0	No	100.0	No
CO	7.21	50.0	No	100.0	No
Lead	0.00	0.6	No	5.0	No
GHGs	10,306.00				

HAP Category	Emissions (tons per year)	Class II Permitting Threshold (tons per year)	Meet or Exceed?	Class I Permitting Threshold (tons per year)	Meet or Exceed?
Greatest Single HAP	2.50	2.5	**Yes**	10.0	No
Total Combined HAP	11.15	10.0	**Yes**	25.0	No

SECTION 9: APPLICABLE RULES AND REQUIREMENTS

PART A: Applicable Requirements of the LLCAPCPRS

Applicable requirements for your source may include maintaining allowable stack opacity, maintaining allowable particulate emissions for the total given heat input, adhering to fugitive dust regulations, adhering to the process weight/particulate emissions rates, adhering to all construction permit conditions, etc. In the boxes below, check all of those requirements in the LLCAPCPRS that may apply to your source, and identify the method by which you intend to demonstrate compliance with the requirement. If a requirement does not apply to your source, briefly explain the reason it does not apply.

Requirement Citation & Name	Does standard apply?	If "Yes", describe compliance method. If "No", explain reason it does not apply.
LLCAPCPRS Article 2, Section 18: New Source Performance Standards (40 CFR Part 60)	☐ Yes ☑ No	If none apply, in Part C, list any that 'appear' to apply, but do not actually apply.
LLCAPCPRS Article 2, Section 19: Prevention of Significant Deterioration (PSD) of Air Quality	☐ Yes ☑ No	Not a major source for PSD
LLCAPCPRS Article 2, Section 20, paragraph (A)(1): Particulate Emission Stds. for Incinerators & Burn-Ovens	☐ Yes ☑ No	No affected equipment at this source
LLCAPCPRS Article 2, Section 20, paragraph (B): Particulate Emission Standards for Combustion Units	☑ Yes ☐ No	Emission rate calculations using EPA emission factors
LLCAPCPRS Article 2, Section 20, paragraph (E): <20% Opacity of Visible Emissions	☑ Yes ☐ No	Visible emission monitoring as required by permit
LLCAPCPRS Article 2, Section 20, Table 20-2: Process Weight Rate Particulate Emission Stds.	☑ Yes ☐ No	Emission rate calculations using EPA emission factors
LLCAPCPRS Article 2, Section 21: Compliance Assurance Monitoring (CAM) (40 CFR Part 64)	☐ Yes ☑ No	Does not apply to Class II sources, but Class I sources must give explanation in Part C.
LLCAPCPRS Article 2, Section 22, paragraph (A)(14): Standards for Pathological Material Incinerators	☐ Yes ☑ No	No affected equipment at this source
LLCAPCPRS Article 2, Section 22, paragraph (C): Standards for Air Curtain Incinerators	☐ Yes ☑ No	No affected equipment at this source
LLCAPCPRS Article 2, Section 23: Hazardous Air Pollutants - Emission Standards (40 CFR Part 61)	☐ Yes ☑ No	If none apply, in Part C, list any that 'appear' to apply, but do not actually apply.
LLCAPCPRS Article 2, Section 24: Sulfur Compound Emissions - Existing Sources - Emission Standards	☐ Yes ☑ No	No affected equipment at this source
LLCAPCPRS Article 2, Section 25: Nitrogen Oxides - Emission Standards for Existing Stationary Sources	☐ Yes ☑ No	No affected equipment at this source
LLCAPCPRS Article 2, Section 26: Acid Rain (40 CFR Parts 72 through 78)	☐ Yes ☑ No	If none apply, in Part C, list any that 'appear' to apply, but do not actually apply.
LLCAPCPRS Article 2, Section 27: Hazardous Air Pollutants - Maximum Achievable Control Technology (MACT)	☐ Yes ☑ No	If none apply, in Part C, list any that 'appear' to apply, but do not actually apply.
LLCAPCPRS Article 2, Section 28: MACT Emission Standards (40 CFR Part 63)	☑ Yes ☐ No	Describe compliance with each applicable MACT standard in Part B, below.
LLCAPCPRS Article 2, Section 32: Dust - Duty to Prevent the Escape Of	☑ Yes ☐ No	Fugitive dust control measures as necessary

PART B: Applicable Federal Regulations and Additional Applicable LLCAPCPRS

SECTION 9: APPLICABLE RULES AND REQUIREMENTS

If your source is subject to any federal air regulations set forth under 40 CFR Parts 60, 61, 63, 64, 68, 82, or Parts 72-78, or to additional regulations set forth in the LLCAPCPRS not included in Part A, then in the spaces provided below, list all of those regulations that apply to your source. For each regulation that applies to your source, list which emission unit(s) the rule applies to, and attach a brief explanation of how you intend to comply with the rule.

Regulation Name (e.g. NSPS for Grain Elevators)	**Regulation Citation** (e.g. 40 CFR 60 Subpart DD)	**Emission unit(s) covered by this regulation.**
NESHAP for Metal Fabrication	**40 CFR 63 XXXXXX**	**EU 1-1, 2-1, 6-1, 7-1, 8-1, and 9-1.**

SECTION 10: COMPLIANCE PLAN

Part A: Compliance Status for Applicable Rules and Requirements	
Will your source be in compliance with all applicable rules and requirements identified in Section 9 of this application, including those that with compliance dates set to take place during the term of the permit?	
☑ **Yes** ☐ **No**	**Proceed to Application Checklist.**

Part B: Applicable Rules and Requirements for Which Compliance Is Not Achieved or Will Not Be Achieved		
Regulation Citation (e.g. 40 CFR 63 Subpart A)	**Regulation Name** (e.g. General Provisions)	**Reason(s) why source will not be in compliance.**

TABLE 10-A: COMPLIANCE SCHEDULE

Applicable Requirement Name:	
Requirement Citation:	
Provide a narrative description of how compliance with this requirement will be achieved.	
Provide a detailed schedule for achieving compliance.	
Remedial Measures/Milestones	**Date Expected**
Applicable Requirement Name:	
Requirement Citation:	
Provide a narrative description of how compliance with this requirement will be achieved.	
Provide a detailed schedule for achieving compliance.	
Remedial Measures/Milestones	**Date Expected**
Applicable Requirement Name:	
Requirement Citation:	
Provide a narrative description of how compliance with this requirement will be achieved.	
Provide a detailed schedule for achieving compliance.	
Remedial Measures/Milestones	**Date Expected**

APPLICATION COMPLETENESS CHECKLIST

Does this application contain confidential information?	☐ Yes ☑ No	**If "Yes" are application pages containing confidential data clearly marked?**	☐ Yes ☑ No / N/A
Continue with the remainder of the checklist.			
Will your source require a Class I (Title V) operating permit?			☐ Yes ☑ No
Continue with the remainder of the checklist, and submit the original signed copy of the permit application when complete.			

Section Number & Name	Included With Application?	If not included, provide reason.
Section 1: Administrative Information And Responsible Official Certification	☑ Yes ☐ No	
Section 2: Detailed Source Information	☑ Yes ☐ No	
Table 3-A: Emission Unit Identification	☑ Yes ☐ No	
Table 3-B: Stack / Release Point Information	☑ Yes ☐ No	
Table 4-A: Insignificant Activities List	☑ Yes ☐ No	
Table 4-B: Fuel Storage and Distribution Equipment Information	☑ Yes ☐ No	
Table 4-C: Insignificant Cooling Towers	☐ Yes ☑ No	No required information for this table.
Table 5-A: Facility-Wide MPTE – Regulated Air Pollutant Emissions	☑ Yes ☐ No	
Table 5-B: Facility-Wide MPTE – VOC Emissions from VOC-Containing Materials	☑ Yes ☐ No	
Table 5-C: Facility-Wide MPTE - HAP Emissions from HAP-Containing Materials	☑ Yes ☐ No	
Table 5-D: Maximum Potential to Emit and Operating Permit Thresholds	☑ Yes ☐ No	
Section 6: Determination Of Source Class	☑ Yes ☐ No	
Table 6-A: Source-Elected Throughput Limits and Emission Control Requirements	☑ Yes ☐ No	
Table 7-A: Facility-Wide APTE – Regulated Air Pollutant Emissions	☑ Yes ☐ No	
Table 7-B: Facility-Wide APTE – VOC Emissions from VOC-Containing Materials	☑ Yes ☐ No	
Table 7-C: Facility-Wide APTE – HAP Emissions from HAP-Containing Materials	☑ Yes ☐ No	
Table 7-D: Actual Potential to Emit and Operating Permit Thresholds	☑ Yes ☐ No	
Section 8: Permit Shield	☐ Yes ☑ No	Not applicable to Class II sources.

APPLICATION COMPLETENESS CHECKLIST

Section 9: Applicable Rules And Requirements	☑ **Yes** ☐ **No**	
Section 10: Compliance Plan	☑ **Yes** ☐ **No**	
Table 10-A: Compliance Schedule	☐ **Yes** ☑ **No**	Not required at this time.