OPERATING PERMIT APPLICATION - CLASS I AND CLASS II 'SPECIFIC' SOURCES

INTRODUCTION & GENERAL INSTRUCTIONS

Sources required to obtain a permit under Article 2, Section 5 of the Lincoln-Lancaster County Air Pollution
This form is intended for use by sources that do not fit any of the 'general source' categories. 'General
Applications are incomplete unless all information requested herein is supplied. Failure to supply any
This application form is designed to be user-friendly by alerting the user as to which inputs are needed, as well

Company Name:	

Once you've entered information into the box, the formatting will change, and the yellow highlighting will

Company Name:	XYZ Manufacturing Co.

If you make an invalid entry, a message describing the reason for the invalid entry will appear in a box

Is this source operated seasonally, or year-round?	☑ Seasonal ☑ Year-Round	Too many boxes checked.

If you select an option in this sheet that renders other information irrelevant, cells containing irrelevant

Is this source operated seasonally, or year-round?	☐ Seasonal ☑ Year-Round	

☐ January	☐ March	☐ May	☐ July	☐ September	☐ November
☐ February	☐ April	☐ June	☐ August	☐ October	☐ December

As shown in the example above, because the operating schedule is 'year round', the individual months of
Many of the sheets in this workbook will have specific instructions associated with them. These instructions
Please note that many sheets have up to 300 rows. Please either print only the required number of pages or

IF YOU HAVE ANY FURTHER QUESTIONS OR REQUIRE ANY ASSISTANCE IN COMPLETING THIS

Air Quality Operating Permit Application Form

Lincoln-Lancaster County Health Department
Environmental Public Health Division - Air Quality Program
Lincoln, NE 68510
http://www.lincoln.ne.gov/city/health/environ/pollu/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 CERTIFICATIO

FALSE FALSE TRUE TRUE TRUE

Part A: Company Information

Company Name:	Kawasaki Motors Manufacturing Corp., U.S.A (KMM)				
Company Address:	P.O. Box 81469				
Company City:	Lincoln	**Company State:**	Nebraska	**Company ZIP:**	68501
Is the business incorporated?	☐ Yes ☐ No	**If so, name the state where incorporated:**	Nebraska		

TRUE FALSE

TRUE <<<TRUE if Part A is complete

Part B: General Facility Information

Facility Name:	Kawasaki Motors Manufacturing Corp., U.S.A (KMM)				
LLCHD Facility ID #:	00132				
Facility Physical Address:	Rail Car Facility - 6500 NW 27th St. --- Consumer Products - 6600 NW 27th St.				
Facility City:	Lincoln	**Facility State:**	Nebraska	**Facility ZIP:**	68524
Facility NAICS Code(s):	336612	Boat Building			
	336999	All Other Transportation Equipment Manufacturing			
	336510	Railroad Rolling Stock 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				

> If unknown or unavailable, enter "Unknown".

>>>>>> The North American Industry Classification System (NAICS) code for your facility can be found at the following address:

http://www.census.gov/eos/www/naics/

For reference, please note the following:
- Facilities east of NW/SW 48th St. are likely within 50 miles of Iowa.
- Facilities south of Rokeby Rd. / Hwy 2 are within 50 miles of Kansas.
- Facilities within the following are likely within 50 miles of Missouri:
  - south and east of SW 2nd St. & Saltillo Rd.
  - south and east of S 14th St. & Pioneers Blvd.
  - south and east of N 33rd St. & Holdrege St.
  - south and east of N 48th St. & Fletcher Ave.
  - south and east of N 70th St. & Bluff Rd.
  - south and east of N 98th St. & Raymond Rd.

TRUE

TRUE FALSE TRUE FALSE FALSE TRUE

FALSE TRUE

TRUE <<<TRUE if Parts A & B are complete

Part C: Contact Information

Facility Contact Person:	Byron Nelson		
Facility Contact Person Title or Responsibility:	Facility Engineer		
Phone Number:	(402) 476-6600 x1281	**E-Mail:**	bnelson@lcn.kmmfg.com
Alternate Phone Number: *(optional)*		**Fax Number:** *(optional)*	
Who is the primary contact for questions regarding this	☐ Facility Contact Person ☐ Other	**If other, provide the following information:**	
Primary Contact Person:	Piyush Srivastav		
Primary Contact Person Company: (if different)	Nebraska Air Quality Specialties		
Phone Number:	(402) 489-1111	**E-Mail:**	piyush@naqs.com
Alternate Phone Number: (optional)	(402) 310-5321	**Fax Number: (optional)**	(402) 489-0444

TRUE <<<TRUE if Facility Contact is complete

FALSE TRUE

TRUE <<<TRUE if Application Contact is complete

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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?		12/14/2012	
Does this facility currently hold one or more construction permits issued by the		☐ Yes	☐ No
If so, list the numbers for all currently effective construction permits. Do not include superceded permits.	061C 111A	070A 132	099A
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 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 3. Will comply with all applicable requirements for which compliance is not currently
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.**
Responsible Official Name: (printed or typed)	
Responsible Official Title:	
Responsible Official Signature:	
Date:	

>>>>>> Only 'Agree' when an electronic copy is submitted with the hard copy application. If not submitting an electronic copy, select "N/A"

>>>>>> **See the instructions included below to determine what qualifies as a 'Responsible Official'.**

Requirements for a 'Responsible Official':

Each application must include a certification statement indicating that the information contained in the application is true,

1. For a Corporation:
   a. A president, secretary, treasurer, or vice-president of the corporation
   b. Any other person who performs similar policy or decision-making
   c. A duly authorized representative of such person if the representative is
      i. The facilities employ more than 250 persons or
      ii. The delegation of authority to such representatives
2. For a partnership of sole proprietorship:
   a. A general partner or the proprietor, respectively;
3. For a municipality, State, Federal, or other public agency:
   a. Either a principal executive officer or ranking elected official. For the
4. For affected sources:
   a. The designated representative in so far as actions, standards,
   b. The designated representative for any other purpose under the Title V

TRUE	<<<TRUE if Parts A, B, & C are complete						
TRUE	FALSE						
TRUE	FALSE	FALSE					
TRUE	<<<TRUE if permit boxes correctly checked						
TRUE	<<<TRUE if current op permit data complete						
TRUE	FALSE						
TRUE	<<<TRUE if construction permit data comple						
TRUE	FALSE	FALSE	FALSE				
TRUE	<<<TRUE if permit application boxes check						
TRUE	<<<TRUE if Parts A, B, C, and D complete						
TRUE	FALSE						
TRUE	<<<TRUE if Compliance Certification compl						
TRUE	<<<TRUE if Truth & Accuracy Cert complete						
TRUE	FALSE						
TRUE	FALSE	FALSE	TRUE	<<<TRUE if Electronic Copy Cert complete			
TRUE	FALSE		TRUE	<<<TRUE if Citizenship Attestation complete	TRUE	FALSE	TRUE

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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:	24																					
	Days per Week:	7																					
	Weeks per Year:	52																					
Does the source operate under an alternative schedule on a regular basis?	☐ Yes ☐ No																						

Part B: Facility Description

On separate sheet(s) of paper, provide a detailed narrative description of the facility. Explain the stages in each process

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

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

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

FALSE	TRUE		
FALSE	FALSE	FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE	
FALSE			
FALSE			
FALSE	TRUE		
TRUE <<< TRUE IF PART A IS COMPLETE			
TRUE	FALSE	TRUE	
TRUE	FALSE	TRUE	
TRUE	FALSE	TRUE	

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Part E: Emission Calculations			
Indicate which method(s) will be used to calculate emissions: (check all that apply)		TRUE <<< TRUE IF PARTS A THROUGH D ARE COMPLETE	
■ **AP-42 or WebFIRE Emission Factors**		TRUE	
■ **Emission Factors from Stack Testing ***		TRUE	
■ **Material Mass-Balance Calculations ***		TRUE	
■ **Other** (specify >>>>) *		FALSE	
■ **Other** (specify >>>>) *		FALSE	
■ **Other** (specify >>>>) *		FALSE	TRUE
If using emission factors or calculation methods other than those provided in AP-42 or WebFIRE, attach a copy of any alternate			
Indicate how material and/or fuel use will be substantiated:			
■ **Material / Fuel Supplier Record(s)**		TRUE	
■ **Material / Fuel Use Logbook(s)**		TRUE	
■ **Receiving / Load-Out Scale Tickets**		FALSE	
■ **Other** (specify >>>>)		FALSE	
■ **Other** (specify >>>>)		FALSE	
■ **Other** (specify >>>>)		FALSE	TRUE

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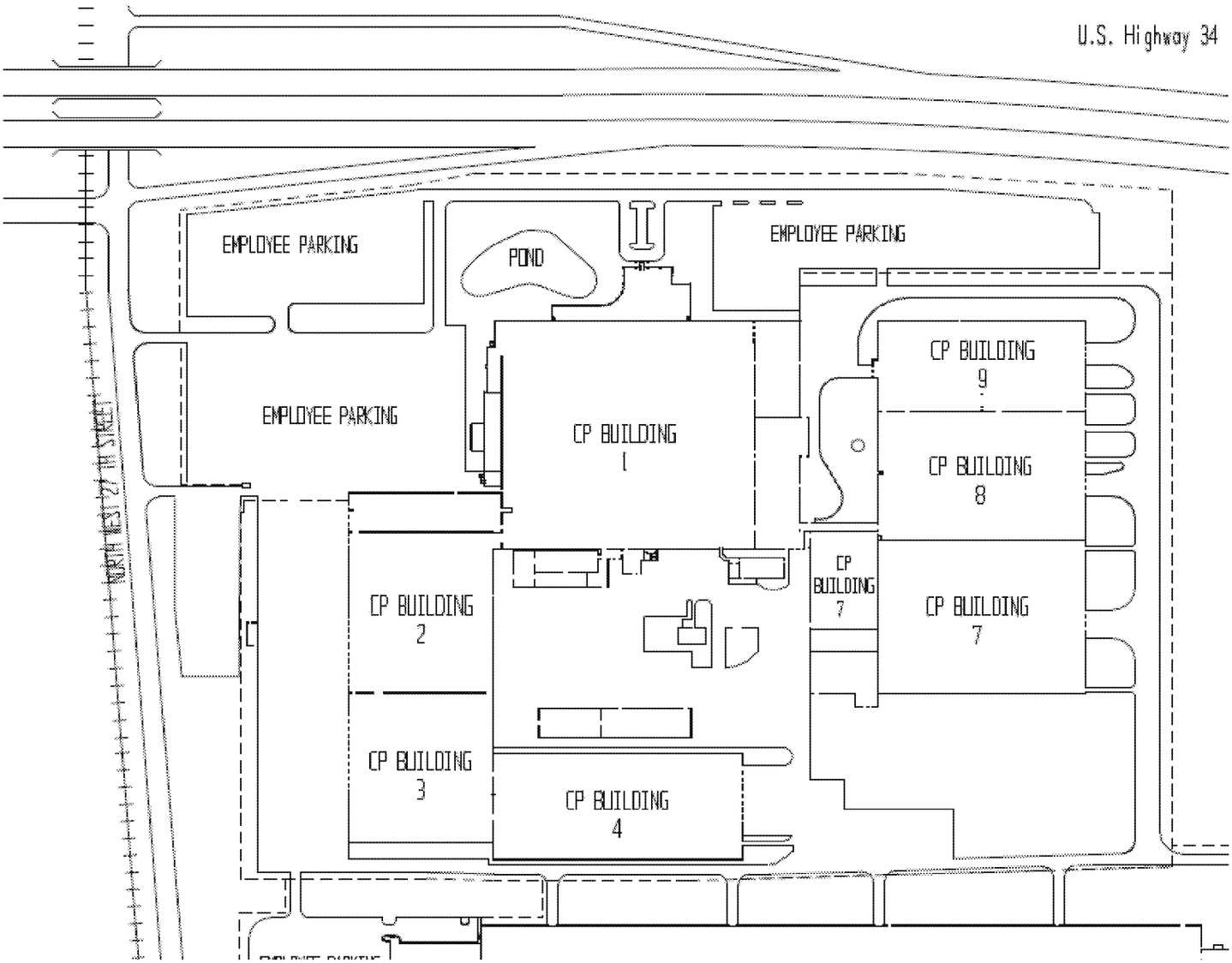
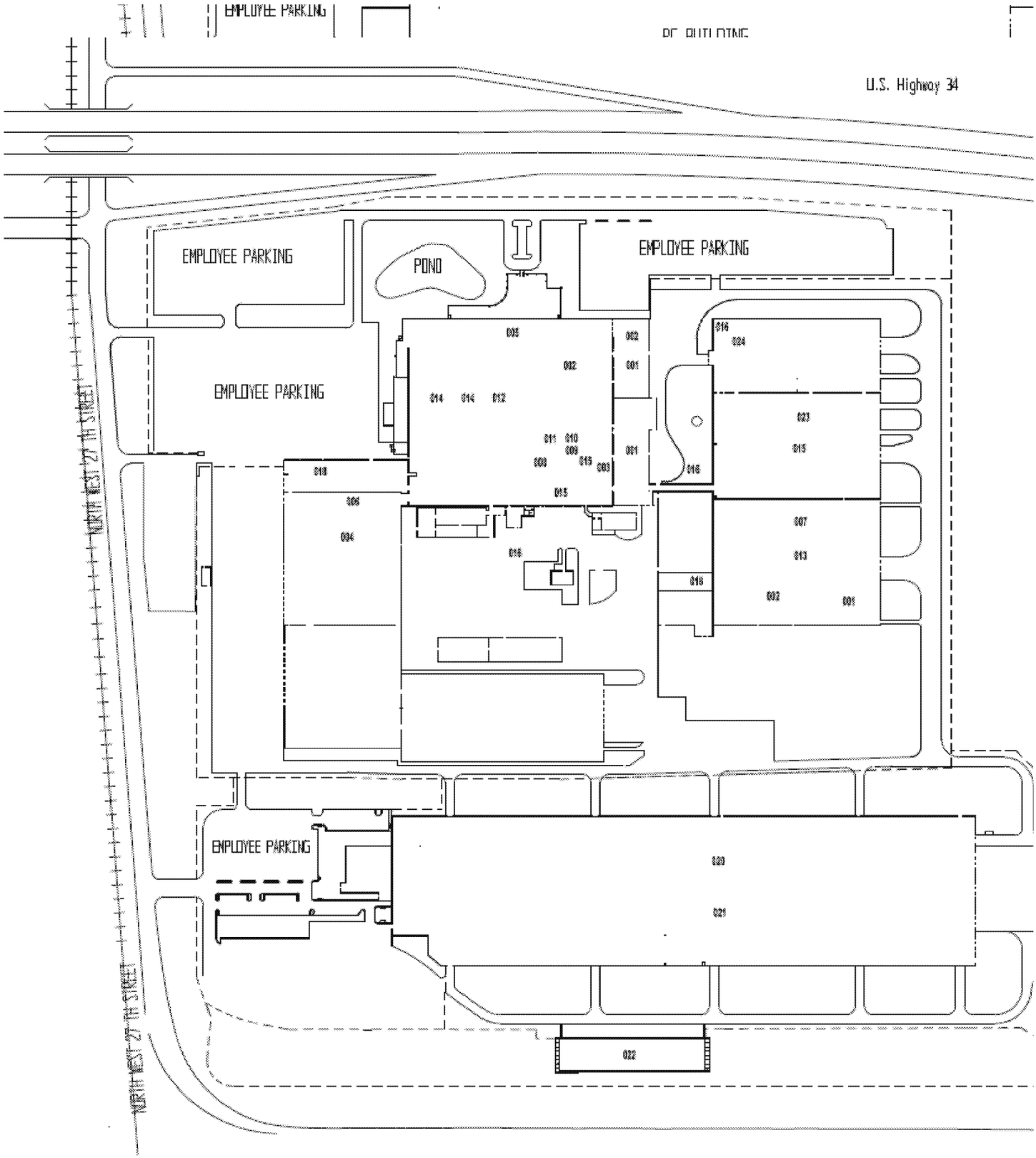
Emission Unit	Operations Included in Emission Unit
1	Metal Fabrication Operations – operations include shearing, tube cutting, laser metal cutting, chopsawing, swedge machining bending, press braking, and press work. Media parts blasting including sand, soda particulate, and solid carbon dioxide media.
2	Frame Welding Operations – operations include gas-metal arc welding (GMAW), gas-tungsten arc welding (GTAW), oxy-acetylene c fine bore, broaching, lathes, and frame alignment.
3	Fuel Tank Fabrication – operations include oxyacetylene brazing and leak-checking.
4	Wheel Fabrication – operations include spot/seam/GMAW/GTAW welding, oxy-acetylene brazing, belt-sanding, p (hydraulic/mechanical/pneumatic), and leak-checking.
5	Main Plant (Frame) E–Coat System – operations include inorganic chemical cleaning, chemical pre-treatment, electro-coat dip (s priming), electro-coat (e-coat) oven curing, powder coat application, powder coat cure oven, and minor sanding/rework.
6	Wheel E–Coat System – operations include inorganic chemical cleaning, chemical pre-treatment, e-coat dip (surface priming), e-coa curing, powder coat application, powder coat cure oven, and minor sanding/rework.
7	Mule E–Coat System – operations include inorganic chemical cleaning, chemical pre-treatment, e-coat dip (surface priming), e-coa curing, powder coat application, powder coat cure oven, and minor sanding/rework.
8	Blackline Pre–Treatment – operations include inorganic chemical cleaning, chemical pre-treatment, and parts drying.
9	Blackline Finishing – operations include automated electrostatic spray painting in a dry filter booth, manual spray in a water wash and paint oven curing.
10	Colorline Finishing – operations include manual spray application of paint in three downdraft/water wash booths followed by oven In addition, a small dry filter booth is utilized for paint touch-up.
11	Clearline Finishing – operations include manual spray application of paint in one downdraft/water wash booth followed by oven cur
12	RUV Assembly Line – operations include the assembly of component parts into completed recreational utility vehicles (RUV's) follov a brief, in-unit function test on one assembly line.
13	Mule Assembly Line – operations include the assembly of component parts into completed Mule utility trucks followed by a brief, function test on one assembly line.
14	ATV Assembly Lines – operations include the assembly of component parts into completed all-terrain vehicles (ATV's) followed by in-unit function test on assembly lines 1 and 2.
15	Consolidated Jet Ski Manufacturing – operations include cutting to size and closed-molding of SMC (Sheet Molding Compound) into smaller Jet Ski parts, and rail car seats. Some SMC components receive in-mold-cured powder coating that serves as a primer or alone top-coat finish. KMM-molded SMC parts and purchased molded components (primarily decks and hulls) are eligible for pos work including de-flashing, sanding, water jet hole cutting, drilling, and other pre-finishing operations. SMC Jet Ski parts as well a RUV, and rail car plastic parts may receive manual spray application of primer and/or top-coat paint in dry filter paint booths, follov oven curing. In addition, out-of-booth manual spray application of touch-up paint and curing in a small infrared oven is also perfo Some Jet Ski, ATV, and RUV plastic parts receive further surface finish via a graphics dipping process. Molded Jet Ski decks and hu bonded together prior to, or during final assembly. During final assembly of Jet Skis, further minor bonding activities occur. Brief, engine function is also performed during assembly.
17	Combustion Units – operations include three gas-fired boilers (2 @ 150 hp and 1 @ 127 hp, the latter of which is not in service), lic petroleum gas (LPG) vaporizer, water heating units, space heating units, and gas-fired process burners. With the exception combustion turbine, all gas-fired combustion units are tied into an LPG standby fuel system.
18	Pyrolysis Ovens – operation includes four ovens used for heat removal of coating materials on parts hangers and coated metal pa rework. An afterburner is used to control smoke emissions. . The pyrolysis units are tied into an LPG standby fuel system.
19	Miscellaneous Chemical Usage – operation includes materials that are not assigned to a particular process.
20	Passenger Railcar Body Fabrication – operation includes underfloor, side-panel, end-pole, and roof assembly welding.
21	Passenger Railcar Fitting – operation includes the installation of insulation, conduits, terminal boxes, seats, electrical harr wall/ceiling panels, lighting, handrails, and floor covering.
22	Rail Car Function Testing – operation includes inspection and function testing of completed rail car units.
23	Injection molding – operation includes injection molding of ATV, RUV, and Mule components.
24	Motor Starter Manufacturing – operation includes component fabrication and final assembly of electric motor starters (as well as number of manual pull starter mechanisms).


U.S. Highway 34
EMPLOYEE PARKING
POND
EMPLOYEE PARKING
EMPLOYEE PARKING
CP BUILDING 1
CP BUILDING 9
CP BUILDING 8
CP BUILDING 2
CP BUILDING 7
CP BUILDING 7
CP BUILDING 3
CP BUILDING 4
NORTH WEST 27 TH STREET


EMPLOYEE PARKING
U.S. Highway 34
EMPLOYEE PARKING
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NORTH WEST 27 TH STREET
EMPLOYEE PARKING
NORTH WEST 27 TH STREET

KMM Generic Process Flow Diagram

Instructions for Section 3 - Table 3-A: Emission Unit Identification

In Table 3-A, below, you must list all emission units at your facility that are not considered insignificant activities. Some activities that are insignificant for Class I sources may not be considered insignificant for Class II sources. If you are not sure what your source will be classified as, begin by including only the emission units that are ineligible for inclusion as an insignificant activity, then proceed with Sections 4, 5, and 6 of this application. You can come back later and add any additional emission units that can no longer be designated as insignificant.

Each emission unit number should consist of a 'point number' and a 'segment number'. This numbering convention serves to allow you to group different emission processes associated with a single point

Emission Unit #		Source Classification Code # (SCC)	Emission Point Description	Emission Segment Description
Point #	Segment #			
1	1	1-02-006-02	50 MMBtu/hr Industrial Boiler	Natural Gas
1	2	1-02-005-01	50 MMBtu/hr Industrial Boiler	Grades 1 and 2 Oil

As seen in the example above, there are two different emission processes associated with the same emission point, thus two different emission unit numbers for the same piece of equipment. Each 'point
Also reflected in the example above is the fact that each emission process has its own 'Source Classification Code' (SCC) number. These numbers are used by the United States Environmental Protection

North Carolina DEQ SCC Code Finder

U.S. EPA WebFIRE Online Search

AP-42: Compilation of Air Pollutant Emission Factors

When entering SCC numbers, do not enter any letters or hyphens…these characters will be added automatically. For example, as shown below, the SCC number for emission unit 2-1 is displays as "1-02-
Continue filling in Table 3-A in a similar manner, as shown below:

2	1	1-02-006-02	75 MMBtu/hr Industrial Boiler	Natural Gas
2	2	1-02-005-01	75 MMBtu/hr Industrial Boiler	Grades 1 and 2 Oil
3	1	A22-94-000-000	Haul Roads	Unpaved
3	2	A22-96-000-000	Haul Roads	Paved
4	1	4-01-003-06	Cold Solvent Cleaning	Trichloroethylene

Information entered in this sheet will be used to populate cells in Tables 3-B, 5-A, and 7-A of this application.

This spreadsheet allows for up to 300 rows of emission unit #'s. When printing, be sure to specify printing only of pages that contain emission units.

End of Instructions. Complete the table below.

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 #			
001	01	3-09-001-98	Metal Fabrication	General Processes
002	01	3-09-002-08	Wheelabrator in Frame Welding Area	Shot Blasting
002	02	3-09-005-00	Frame Welding	Welding - General
002	03	3-09-999-93	Frame Welding Chemical Use	Misc. Industrial Processes
003	01	3-09-001-98	Fuel Tank Metal Fabrication	General Processes
003	02	3-09-005-00	Fuel Tank Welding	Welding - General
003	03	3-09-999-93	Fuel Tank Fabrication Chemical Use	Misc. Industrial Processes
004	01	3-09-001-98	Metal Wheel Fabrication	General Processes
004	02	3-09-005-00	Wheel Welding	Welding - General
004	03	3-09-999-93	Wheel Fabrication Chemical Use	Misc. Industrial Processes
005	01	4-20-225-02	Frame E-Coat Chemical Use	Cleaning / Pre-Treatment
005	02	4-02-035-32	Frame E-Coat Chemical Use	Conveyor - Single Dip
006	01	4-02-025-02	Wheel E-Coat Chemical Use	Cleaning / Pre-Treatment
006	02	4-02-025-32	Wheel E-Coat Chemical Use	Conveyor - Single Dip
007	01	4-02-025-02	Mule E-Coat Chemical Use	Cleaning / Pre-Treatment
007	02	4-02-025-32	Mule E-Coat Chemical Use	Conveyor - Single Dip
008	01	4-02-025-02	Blackline Pre-Treatment Chemical Use	Cleaning / Pre-Treatment

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009	01	4-02-025-33	Blackline Finishing Chemical Use	Conveyor - Single Spray
010	01	4-02-999-98	Colorline Finishing Chemical Use	Miscellaneous
011	01	4-02-999-98	Clearline Finishing Chemical Use	Miscellaneous
012	01	3-09-999-93	RUV Assembly Line Chemical Use	Misc. Industrial Processes
013	01	3-09-999-93	Mule Assembly Line Chemical Use	Misc. Industrial Processes
014	01	3-09-999-93	ATV Assembly Line Chemical Use	Misc. Industrial Processes
015	01	3-08-007-99	Jet Ski Mfg. Chemical Use - Molding	Fiberglass Resin Products (Not Classified)
015	02	3-08-007-04	Jet Ski Mfg. Chemical Use - Bonding	Fiberglass Resin Products (Adhesive)
015	03	3-08-007-99	Jet Ski Mfg. Sanding	Fiberglass Resin Products (Not Classified)
015	04	4-02-022-01	Jet Ski Mfg. Chemical Use - Painting	Plastic Parts Surface Coating
015	05	3-08-008-02	Jet Ski Mfg. Foaming	Plastic Foam Products
015	06	3-09-999-93	Jet Ski Mfg. Assembly	Misc. Industrial Processes
017	01	1-02-006-03	< 10 MMBtu/hr Boilers	Natural Gas
017	02	1-02-010-02	< 10 MMBtu/hr Boilers	LPG Standby
017	03	2-02-002-03	1.5 MW Combustion Turbine	Natural Gas
017	04	4-02-010-01	< 10 MMBtu/hr Process Heaters	Natural Gas

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017	05	4-02-010-04	< 10 MMBtu/hr Process Heaters	LPG Standby
017	06	1-05-001-06	< 10 MMBtu/hr Misc. Heaters	Natural Gas
017	07	1-05-001-10	< 10 MMBtu/hr Misc. Heaters	LPG Standby
018	01	---	< 10 MMBtu/hr Pyrolysis Ovens	Natural Gas
018	02	---	< 10 MMBtu/hr Pyrolysis Ovens	LPG Standby
019	01	---	Misc. Chemical Use	Other Not Classified
020	01	3-09-005-00	Rail Car Fabrication Welding	Welding - General
020	02	3-09-999-93	Rail Car Fabrication Chemical Use	Misc. Industrial Processes
021	01	3-09-999-93	Rail Car Fitting Chemical Use	Misc. Industrial Processes
022	01	---	Rail Car Function Testing	Inspection / Function Testing
023	01	---	Injection Molding	Injection Molding
023	02	3-09-999-93	Injection Molding Chemical Use	Misc. Industrial Processes
024	01	3-09-001-98	Starter Motor Metal Fabrication	General Processes
024	02	3-09-999-93	Starter Motor Chemical Use	Misc. Industrial Processes
025	01	2-02-001-02	175 kw Emergency Generator	Diesel Combustion
025	02	2-02-001-02	300 hp Emergency Fire Pump Engine	Diesel Combustion

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Instructions for Section 3 - Table 3-B: Stack / Release Point Information

In Table 3-B below, emission unit numbers and descriptions that you entered in Table 3-A have been automatically imported into Table 3-B. If the emission unit description is too long to display in the box, you do not need to change the emission unit description.

As shown in the example table below, you are required to enter several different stack parameters for each emission unit. Please be sure to provide information in the specified units of measurement.

1. For 'Latitude' and 'Longitude', provide information in 'decimal degrees'. You do not need to enter the "-" to the longitude to denote 'degrees West', it will be added automatically. If you enter a value and the cell is highlighted in red, you have entered a value that is outside of the boundary of Lancaster County.
2. For 'Elevation', provide the elevation of the base of the stack (ground level). If the stack, vent, or release point is on the roof of a building, see the instructions for 'Stack Height'.
3. For 'Stack Height', provide the distance from ground level to the top of the stack. For stacks, vents, or release points on the roof of a building, add the height of the building to the stack
4. For 'Stack Inside Diameter', provide the distance across the inside of the stack. For stacks that are square or rectangular, use the conversion tool below to calculate the 'Equivalent
5. For 'Exhaust Exit Velocity', enter the velocity of the exhaust gases as they exit the stack. 'Exhaust Flow Rate' will calculate automatically based on exit velocity and stack diameter. If you
6. For 'Vertical, Horizontal, or Fugitive', a drop-down list of options is available. Select the appropriate option that describes the direction of the exhaust gas as it exits the stack. If an emission
7. For 'Raincap Present?', a drop-down list of options is available. Select "Yes" if the stack has a raincap. Select "No" if no raincap is present.

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	50 MMBtu/hr Industrial Boiler	40.686886	-96.571198	1,500.00	15.00	3.00	300.00	20.00	141.37	Vertical	No
1-2	50 MMBtu/hr Industrial Boiler	40.686886	-96.571198	1,500.00	15.00	3.00	300.00	20.00	141.37	Vertical	No
2-1	75 MMBtu/hr Industrial Boiler	40.868890	-96.571200	1,500.00	35.00	4.00	250.00	15.00	188.50	Vertical	Yes
2-2	75 MMBtu/hr Industrial Boiler	40.868890	-96.571200	1,500.00	35.00	4.00	250.00	15.00	188.50	Vertical	Yes
3-1	Haul Roads									Fugitive	
3-2	Haul Roads									Fugitive	
4-1	Cold Solvent Cleaning									Fugitive	

Conversion Tools

Latitude Conversion:		degrees North		minutes		seconds	Decimal Degrees: 0.000000
Longitude Conversion:		degrees West		minutes		seconds	Decimal Degrees: 0.000000
Meters to Feet:		meters					Feet: 0.00
Equivalent Diameter (opening dimensions):		feet wide		feet long			Equivalent Diameter (feet): 0.00
Celsius to Fahrenheit:		degrees Celsius (°C)					Degrees Fahrenheit (°F) 0
Exhaust Flow Rate to Exhaust Exit Velocity:		cubic feet per second, OR cubic feet per minute		diameter (or equivalent diameter) in feet			Exhaust Exit Velocity (ft/sec): 0.00

When printing, be sure to specify printing only of pages that contain stack data.

End of Instructions. Complete the table below.

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?
001-01	Metal Fabrication									Fugitive	
002-01	Wheelabrator in Frame Wel...									Fugitive	
002-02	Frame Welding									Fugitive	
002-03	Frame Welding Chemical Us...									Fugitive	

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003-01	Fuel Tank Metal Fabricati…									Fugitive	
003-02	Fuel Tank Welding									Fugitive	
003-03	Fuel Tank Fabrication Che…									Fugitive	
004-01	Metal Wheel Fabrication									Fugitive	
004-02	Wheel Welding									Fugitive	
004-03	Wheel Fabrication Chemica…									Fugitive	
005-01	Frame E-Coat Chemical Use									Fugitive	
005-02	Frame E-Coat Chemical Use									Fugitive	
006-01	Wheel E-Coat Chemical Use									Fugitive	
006-02	Wheel E-Coat Chemical Use									Fugitive	
007-01	Mule E-Coat Chemical Use									Fugitive	
007-02	Mule E-Coat Chemical Use									Fugitive	
008-01	Blackline Pre-Treatment C…									Fugitive	
009-01	Blackline Finishing Chemi…									Fugitive	
010-01	Colorline Finishing Chemi…									Fugitive	
011-01	Clearline Finishing Chemi…									Fugitive	
012-01	RUV Assembly Line Chemica…									Fugitive	
013-01	Mule Assembly Line Chemic…									Fugitive	
014-01	ATV Assembly Line Chemica…									Fugitive	
015-01	Jet Ski Mfg. Chemical Use…									Fugitive	
015-02	Jet Ski Mfg. Chemical Use…									Fugitive	
015-03	Jet Ski Mfg. Sanding									Fugitive	
015-04	Jet Ski Mfg. Chemical Use…									Fugitive	
015-05	Jet Ski Mfg. Foaming									Fugitive	
015-06	Jet Ski Mfg. Assembly									Fugitive	
017-01	< 10 MMBtu/hr Boilers									Fugitive	
017-02	< 10 MMBtu/hr Boilers									Fugitive	
017-03	1.5 MW Combustion Turbine									Fugitive	
017-04	< 10 MMBtu/hr Process Hea…									Fugitive	
017-05	< 10 MMBtu/hr Process Hea…									Fugitive	
017-06	< 10 MMBtu/hr Misc. Heate…									Fugitive	
017-07	< 10 MMBtu/hr Misc. Heate…									Fugitive	
018-01	< 10 MMBtu/hr Pyrolysis O…									Fugitive	
018-02	< 10 MMBtu/hr Pyrolysis O…									Fugitive	
019-01	Misc. Chemical Use									Fugitive	
020-01	Rail Car Fabrication Weld…									Fugitive	
020-02	Rail Car Fabrication Chem…									Fugitive	
021-01	Rail Car Fitting Chemical…									Fugitive	
022-01	Rail Car Function Testing									Fugitive	
023-01	Injection Molding									Fugitive	
023-02	Injection Molding Chemica…									Fugitive	
024-01	Starter Motor Metal Fabri…									Fugitive	
024-02	Starter Motor Chemical Us…									Fugitive	
025-01	175 kw Emergency Generato…									Fugitive	
025-02	300 hp Emergency Fire Pum…									Fugitive	

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Vertical	Yes
Horizontal	No

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Vertical, Horizontal, or Fugitive	Raincap Present?
Vertical	Yes
Horizontal	No
Fugitive	

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Instructions for Section 4: Insignificant Activities

Insignificant activities are those activities and/or emission units that may be excluded from an operating permit application or, if included, listed in the application with a limited amount of support information.

All emission units that are subject to a NSPS, NESHAP, and/or construction permit requirements are not insignificant activities. This includes all types of emissions units listed in this document. For those

IMPORTANT NOTE REGARDING RECIPROCATING INTERNAL COMBUSTION ENGINES (RICE)

Stationary compression ignition internal combustion engines constructed, reconstructed, or modified after July 11, 2005, and stationary spark ignition internal combustion engines constructed,
Any existing, new, or reconstructed stationary reciprocating internal combustion engine (RICE) located at a major or area source of hazardous air pollutant emissions, excluding stationary RICE being
Portable generators are still considered Insignificant Activities, and do not need to be included in Table 4-A.

IMPORTANT NOTE REGARDING BOILERS

Many boilers are now subject to requirements under the NESHAP MACT requirements set forth under 40 CFR Part 63 Subparts DDDDD and JJJJJJ. All boilers and process heaters at 'major sources' of
Boilers at 'area sources' of HAPs that meet the definition of a "gas-fired boiler" set forth in Subpart JJJJJJ are not subject to Subpart JJJJJJ. In addition, process heaters at 'area sources' of HAPs are not

A. Insignificant Activities List For ALL Class I and Class II Sources

The following activities are considered insignificant for all Class I and Class II sources, and are exempt from inclusion in Tables 4-A, 4-B, or 4-C. Emissions from these activities are exempt from inclusion

1. Office activities, including operation of standard office equipment when such activities are conducted solely in support of the principal business activity, not including printers or businesses primarily involved in photographic reproduction.
2. Janitorial activities, services, and consumer use of janitorial products.
3. Maintenance of processing equipment, machinery and/or control devices, buildings, grounds or facilities to maintain appearance or condition provided these activities are not conducted as
4. Portable, sealed storage containers that are not connected to a process unit or line by piping, transfer hoses, lines or valves, etc.
5. Air condition units used for human comfort.
6. Ventilating units used for human comfort that do not exhaust air pollutants into the ambient air from any manufacturing, industrial, or commercial process.
7. Non-commercial food preparation.
8. Laundry activities, except for dry-cleaning and steam boilers.
9. Tobacco smoking rooms and areas.
10. Batteries and battery charging stations, except at battery manufacturing plants.
11. Equipment used to mix and package items such as soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
12. Equipment used exclusively to slaughter animals.
13. Vents from continuous emissions monitors and other analyzers.
14. Hot melt adhesives with no VOC or HAP in the formulation.
15. Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
16. Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants.
17. Laboratory equipment used for physical or chemical analysis but not lab fume hoods or vents.
18. Routine calibration and maintenance of laboratory equipment or other analytical instruments.
19. Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
20. Hydraulic and hydrostatic testing equipment.
21. Environmental chambers not using HAP gases.
22. Shock chambers, humidity chambers, and solar simulators.
23. Fugitive emissions related to movement of passenger vehicles, provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent
24. Process water filtration, deionization, and demineralization systems, demineralizer water tanks, and demineralizer vents.
25. Boiler water treatment operations, not including cooling towers.
26. Oxygen scavenging (de-aeration) of water.
27. Ozone generators.
28. Fire suppression systems, excluding Reciprocating Interal Combustion Engines (RICE) emergency pumps at a fixed site.
29. Emergency road flares.
30. Steam vents and safety relief valves.
31. Steam leaks.
32. Steam cleaning and sterilizer operations.

33. Employee support activities such as cafeteria and recreational facilities.
34. Laboratory and Research and Development Activities conducted exclusively in the non-processing areas of the facility.
35. Water heaters, provided such heaters do not supply heated water for material processing.
36. Storage and handling of lubricating and heavy oils with a vapor pressure less than 0.5 pounds per square inch (psi) under standard conditions, when held for source use only.

B. Conditionally Insignificant Equipment/Activities

The Department has determined that the following activities are conditionally exempt from inclusion in the Operating Permit Application and Annual Emissions Inventory Reports. The following

1. Forges and drop hammers or hydraulic presses used for forging or metal working.
2. Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal, or plastic.
3. Brazing, soldering, and welding equipment, and cutting torches related to manufacturing and construction activities that do not result in emission of HAP metals.
4. Air compressors and pneumatically operated equipment, including hand tools.
5. CO_2 lasers, used only on metals and other materials which do not emit HAP in the process.
6. Laser trimmers using dust collection that do not result in emissions of HAP metals.
7. Stationary internal combustion turbines at area sources of HAPs, provided the following also apply:
8. Stationary external combustion units using the listed fuel type and rated below the corresponding heat input rating are insignificant, unless one of the following statements applies to your

Fuel Type	Maximum Heat Input Rating
Natural Gas	10.0 MMBtu/hr
Propane	8.0 MMBtu/hr

NOTE: Click here for the 'Important Note Regarding Boilers'.

C. Insignificant Equipment/Activities

The Department has determined that the following insignificant activities must be included in the Section 4 of this application. The emissions associated with the following activities do not need to be

1. Comfort cooling towers.
2. Process cooling towers with a circulating water flow rate less than 2,000 gallons per minute. In Table 4-C, include the circulating water flow rate, total dissolved solids concentration,
3. Space heaters. In the Description column of Table 4-A, include the heat input rating and fuel type. If you have several space heaters with the same heat input rating & fuel type, you may
4. Fuel storage and distribution equipment (for on-site fuel use only), including storage vessels (tanks) with aggregate annual throughput of less than 1 million gallons for the entire facility.

Instructions for Section 4 - Table 4-A: Insignificant Activities List

In Table 4-A, below, you must list all insignificant activities at your facility, except for those included in items A.1 through A.42 in the "Instructions for Section 4'. If you do not yet know what your source will be classified as (Class I, Class II Synthetic Minor, or Class II Minor), proceed with Sections 5 and 6 of this application, then return to complete Section 4 once you've determined what your source class will be. You may also need to update information in Section 3, as well.

Remember that lubricating and heavy oil storage should be provided in Table 4-B, and cooling tower data should be provided in Table 4-C.

For space heaters, in the Description column of Table 4-A include the heat input rating and fuel type. If you have several space heaters with the same heat

For fuel storage and distribution equipment, include the storage capacity (in gallons) of each fuel storage vessel, as well as the type of fuel being stored.

For natural-gas fired turbines, include the peak brake horsepower rating (peak bhp).

For stationary external combustion units, include the heat input rating, the type of fuel (or fuels) burned, and the average annual days in service.

This spreadsheet allows for up to 3 pages of insignificant activities. When printing, be sure to specify printing only of

End of Instructions. Complete the table below.

SECTION 4 – INSIGNIFICANT ACTIVITIES

Table 4-A: Insignificant Activities List

Insignificant Activity Type	Description of Insignificant Activity

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Instructions for Section 4 - Table 4-B: Fuel Storage and Distribution Equipment Information

In Table 4-B below, provide the requested information for any insignifcant Fuel Storage and Distribution Equipment. Remember that equipment subject to 40 CFR Part 63, Subpart CCCCCC cannot be included in this table as an insignificant activity.

This spreadsheet allows for up to 3 pages of storage data. When printing, be sure to specify printing only of pages that contain data.

End of Instructions. Complete the table below.

SECTION 4 – INSIGNIFICANT ACTIVITIES

Table 4-B: Fuel Storage and Distribution Equipment Information

Equipment ID	Installation Date	Fuel Type	Maximum Capacity (gallons) or Maximum Flow Rate (gals/min)	Vapor Pressure @ Standard Conditions (psi)
AvGas Tank	2008	Aviation Gasoline	1000 gals	N/A
Unleaded Tank	1989	Unleaded Gasoline	575 gals	N/A
Diesel Tank	1989	Diesel Fuel	575 gals	N/A
Emergency Gen Diesel Tank	2014	Diesel Fuel	335 gals	N/A
LPG Tank 1	N/A	LPG	30,000 gals	N/A
LPG Tank 2	N/A	LPG	30,000 gals	N/A
LPG Tank 3	N/A	LPG	30,000 gals	N/A
LPG Tank 4	N/A	LPG	30,000 gals	N/A
LPG Tank 5	N/A	LPG	30,000 gals	N/A
LPG Tank 6	N/A	LPG	30,000 gals	N/A
Emergency Fire Pump Diesel Tank	6/3/1905	Diesel Fuel	280	N/A

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Instructions for Section 4 - Table 4-C: Insignificant Cooling Towers

In Table 4-C below, provide the requested information for wet cooling towers. If you do not yet know what your source will be classified as (Class I, Class II Synthetic Minor, or Class II Minor), proceed with Sections 5 and 6 of this application, then return to complete Section 4 once you've determined what your source class will be.

Remember that if you are a Synthetic Minor source with limits on PM_{10}, cooling towers cannot be considered insignificant activities.

Information on maximum circulating flow rate and estimated drift loss should be available from the unit manufacturer. If you are unable to obtain estimated drift loss, then you may use

This spreadsheet allows for up to 3 pages of cooling towers. When printing, be sure to specify printing only of pages that contain data.

End of Instructions. Complete the table below.

SECTION 4 – INSIGNIFICANT ACTIVITIES

Table 4-C: Insignificant Cooling Towers

Cooling Tower ID	Installation Date	Induced Draft or Natural Draft?	Maximum Circulating H_2O Flow Rate (gpm)	Total Dissolved Solids Conc. (ppmv)	Estimated Drift Loss (%)	Average Days in Service / Year
CT1	N/A	Induced	< 1000 gpm	unknown	0.020%	N/A
CT2	N/A	Induced	< 1000 gpm	unknown	0.020%	N/A
CT3	N/A	Induced	< 1000 gpm	unknown	0.020%	N/A
CT4	N/A	Induced	< 1000 gpm	unknown	0.020%	N/A

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Instructions for Section 5 - Table 5-A: Facility-Wide MPTE - Regulated Air Pollutant Emissions

As seen in the example table below, the emission unit numbers and SCC codes entered on Table 3-A have been automatically imported into Table 5-A. In each row than contains an emission unit, the cell under "Process Rate" is highlighted in yellow, indicating a required entry. The following items will offer a further explanation of what is requested in each column.

1. For 'Process Rate' (Column C), enter the maximum hourly processing/throughput rate for the associated emission unit. As shown in the example table, when entering the Hourly Process Rate, do not round any further
2. For 'Process Rate Units' (Column D), enter the unit of measure that the 'Process Rate' is provided in. When entering 'Process Rate Units', please use the following abbreviations, as applicable:

Million cubic feet = MMcf	Thousand gallons = Mgal	Vehicle Miles Traveled = VMT	Thousand Ampere-Hours = M	gallons = gals pounds = lbs

3. For 'Emission Factor Source' (Column F), indicate the source of the emission factor or the emission calculation method used to calculate emission for each emission unit. If calculating emissions with factors or methods
4. In Column F, the maximum annual throughput rate will be calculated automatically by multiplying the hourly rate by 8,760 hours/year.
5. For Columns G through O, enter the maximum annual emission rate, aka the 'maximum potential to emit (MPTE)' for each respective pollutant. If an emission unit does not emit one or more pollutants simply enter a
6. For emissions of VOC and Total HAP from some emission units, you may find it helpful to complete Tables 5-B (MPTE VOC) and 5-C (MPTE HAP) before entering the information in this Table, as those tables are formatted
   CLICK HERE FOR EPA'S LIST OF HAZARDOUS AIR POLLUTANTS (HAP).
7. For emissions of GHGs, note that GHGs includes carbon dioxide (CO_2), nitrous oxide (N_20), methane (CH_4), sulfur hexafluoride (SF_6), hydrofluorocarbons (HFC's), and perfluorocarbons (PFCs). When providing totals in this
   CLICK HERE FOR POLLUTANT-SPECIFIC GLOBAL WARMING POTENTIALS.

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 (see note)	LEAD	Total HAP
1-1	1-02-006-02	0.0487	MMcf	426.61	WebFIRE	3,241	3,241	42,648	255.89	2,346	35,824	5.1E+07	-	799.65
1-2	1-02-005-01	0.3605	Mgal	3,158	WebFIRE	7,264	4,895	75,795	22,423	795.85	15,791	7.9E+07	0.03	151.59
2-1	1-02-006-02	0.0730	MMcf	639.48	WebFIRE	4,862	4,862	63,973	383.84	3,519	53,737	7.7E+07	-	1,199
2-2	1-02-005-01	0.5408	Mgal	4,737	WebFIRE	10,896	7,343	113,692	33,634	1,194	23,686	1.2E+08	0.04	227.38
3-1	A22-94-000-000	0.1712	VMT	1,500	AP-42	1,725	424.50	-	-	-	-	-	-	-
3-2	A22-96-000-000	0.1142	VMT	1,000	AP-42	1,150	283.00	-	-	-	-	-	-	-
4-1	4-01-003-06	0.5708	gals	5,000	Mass Balance	-	-	-	-					

As shown in the example table above, emission units 1-1 and 1-2, both of which represent the 50 MMBtu/hr boiler, have different emissions associated with them. However the boiler cannot run simultaneously on natural gas and

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 (see note)	LEAD	Total HAP
1-1	1-02-006-02	0.05	MMcf	426.61	WebFIRE	-	-	-	-	2,346	35,824	-	-	799.65
1-2	1-02-005-01	0.36	Mgal	3,158	WebFIRE	7,264	4,895	75,795	22,423	-	-	7.9E+07	0.03	-
2-1	1-02-006-02	0.07	MMcf	639.48	WebFIRE	-	-	-	-	3,519	53,737	-	-	1,199
2-2	1-02-005-01	0.54	Mgal	4,737	WebFIRE	10,896	7,343	113,692	33,634	-	-	1.2E+08	0.04	-

Continue entering data in a similar manner as prescribed. Information entered in this table will be used to populate data in Table 5-D of this application.

Conversion Tools

Enter Combustion Unit Rating in MMBtu/hr:	
For Coal-Burning Units, provide the average Btu content per pound of coal:	

Natural Gas Hourly fuel use (MMcf / hr):	0.0000
No. 2 Fuel Oil / Diesel Hourly fuel use (Mgal / hr):	0.0000
Kerosene Hourly fuel use (Mgal / hr):	0.0000
Gasoline Hourly fuel use (Mgal / hr):	0.0000
Propane Hourly fuel use (Mgal / hr):	0.0000
Residual Fuel Oil Hourly fuel use (Mgal / hr):	0.0000
Coal Hourly fuel use (tons / hr):	0.0000

This spreadsheet allows for up to 300 rows of emission unit #'s. When printing, be sure to specify printing only of pages that contain emission units.

End of Instructions. Complete the table below.

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 (see note)	LEAD	Total HAP		
001-01	3-09-001-98	19.30	CP units	169,078	Mass Balance	118,193	118,193	-	-		-	-	-	217,138	AP-42	169,078 CP units
002-01	3-09-002-08	114.54	pounds	1.00E+06	Mass Balance	13,044	1,304	-	-		-	1.0E+06	-	-	WebFire	1,003,413 pounds
002-02	3-09-005-00	19.30	CP units	169,078	Mass Balance	8,116	8,116	-	-		-	-	-	4,988	Stack Test	169,078 CP units
002-03	3-09-999-93	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00	Mass Balance	169,078 CP units
003-01	3-09-001-98	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00	Other	169,078 CP units
003-02	3-09-005-00	19.30	CP units	169,078	Mass Balance	8,116	8,116	-	-		-	-	-	4,988		169,078 CP units
003-03	3-09-999-93	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
004-01	3-09-001-98	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
004-02	3-09-005-00	19.30	CP units	169,078	Mass Balance	8,116	8,116	-	-		-	-	-	4,988		169,078 CP units
004-03	3-09-999-93	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
005-01	4-20-225-02	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
005-02	4-02-035-32	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
006-01	4-02-025-02	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
006-02	4-02-025-32	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
007-01	4-02-025-02	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
007-02	4-02-025-32	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
008-01	4-02-025-02	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
009-01	4-02-025-33	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
010-01	4-02-999-98	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
011-01	4-02-999-98	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
012-01	3-09-999-93	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
013-01	3-09-999-93	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
014-01	3-09-999-93	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
015-01	3-08-007-99	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
015-02	3-08-007-04	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-	498,000	-	-	-	0.00		169,078 CP units
015-03	3-08-007-99	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
015-04	4-02-022-01	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
015-05	3-08-008-02	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
015-06	3-09-999-93	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-		-	-	-	0.00		169,078 CP units
017-01	1-02-006-03	0.0139	MMcf	121.80	WebFire	925.68	925.68	-	-		10,231	-	0.06	-		122 MMcf

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017-02	1-02-010-02	0.1562	Mgal	1,368	WebFire	-	-	25,992	150.48	-	1.7E+07	-	273.60		1,368 Mgal
017-03	2-02-002-03	0.0166	MMcf	145.72	WebFire	1,078	1,078	10,623	335.16	2,084	1.8E+07	0.07	275.00		146 MMcf
017-04	4-02-010-01	0.0634	MMcf	555.39	WebFire	4,221	4,221	-	-	46,653	-	0.28	-		555 MMcf
017-05	4-02-010-04	0.7123	Mgal	6,240	WebFire	-	-	118,560	686.40	-	7.8E+07	-	1,248		6,240 Mgal
017-06	1-05-001-06	0.1905	MMcf	1,669	WebFire	-	-	-	-	-	-	0.83	-		1,669 MMcf
017-07	1-05-001-10	2.14	Mgal	18,751	WebFire	21,189	21,189	243,763	26,814	140,633	2.4E+08	-	3,750		18,751 Mgal
018-01	---	0.0030	MMcf	26.42	WebFire	200.79	200.79	-	-	2,219	-	0.01	-		26 MMcf
018-02	---	0.0339	Mgal	297.00	WebFire	-	-	5,643	32.67	-	3.7E+06	-	59.40		297 Mgal
019-01	---	19.30	CP units	169,078	Mass Balance	0.00	0.00	-	-	-	-	-	0.00		169,078 CP units
020-01	3-09-005-00	0.0354	RC units	310.00	Mass Balance	8,116	8,116	-	-	-	-	-	4,988		310 RC units
020-02	3-09-999-93	0.0354	RC units	310.00	Mass Balance	0.00	0.00	-	-	-	-	-	0.00		310 RC units
021-01	3-09-999-93	0.0354	RC units	310.00	Mass Balance	0.00	0.00	-	-	-	-	-	0.00		310 RC units
022-01	---	0.0354	RC units	310.00	Mass Balance	0.00	0.00	-	-	-	-	-	0.00		310 RC units
023-01	---	0.0354	RC units	310.00	Mass Balance	0.00	0.00	-	-	-	-	-	0.00		310 RC units
023-02	3-09-999-93	0.0354	RC units	310.00	Mass Balance	0.00	0.00	-	-	-	-	-	0.00		310 RC units
024-01	3-09-001-98	0.0354	RC units	310.00	Mass Balance	0.00	0.00	-	-	-	-	-	0.00		310 RC units
024-02	3-09-999-93	0.0354	RC units	310.00	Mass Balance	0.00	0.00	-	-	-	-	-	0.00		310 RC units
025-01	2-02-001-02	0.0122	Mgal	6.10	WebFire	259.25	259.25	3,684	242.17	793.00	137,860	3.36	3.36		6 Mgal
025-02	2-02-001-02	0.0160	Mgal	8.00	WebFire	340.00	340.00	4,832	317.60	1,040	180,800	4.40	4.40		8 Mgal

Notes:

*'CP units' = consumer product units

*'RC units' = rail car units

*Emission Units with totals appearing as "0.00" and highlighted in green have had their emissions combined into emission totals provided for Emission Unit 001-01.

*The VOC total provided represents the maximum allowable emissions of VOCs, as established in Construction Permit No. 165.

*Some pollutant emissions for combustion units have been left as zeros because the units cannot run 8,760 hrs/yr on both natural gas and LPG. The

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						191,914	180,174	413,097	28,578	498,000	203,653	357,274,684	9.014	242,703
						95.957	90.087	206.55	14.289	249.00	101.83	178,637	0.005	121.35

PM10	95.957
PM2.5	90.087
NOx	206.550
SOx	14.289
VOC	249.000
CO	101.830
Lead	0.005
CO2e	178,637.000
Ind. HAP	65.638
Tot. HAP	121.352

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Instructions for Section 5 - Table 5-B: Facility-Wide MPTE - VOC Emissions from VOC-Containing Materials

For each VOC-containing material used at your source, enter the requested information in Table 5-B in the manner shown in the example table below. Do not include VOC emissions from materials that are used in an 'Insignificant Activity', as prescribed in the Instructions for Section 4.

1. For 'Material Name' (Column A), enter the name of the material as it appears on the associated Material Safety Data Sheet (MSDS).
2. For 'Manufacturer Name' (Column B), enter the name of the material manufacturer.
3. For 'Emission Unit #(s) (Column C), enter the number of the emission unit (or units) with which the material used is associated. For example, if you utilize the same adhesive in
4. For 'Material Purpose' (Column D), provide a 1-word description of what the material used for, (e.g. adhesive, cleaner, stripper, lubricant, etc.)
5. For 'Material Throughput' (Column E), enter the maximum annual throughput (in gallons) of the material at your source. If you keep records of material use for certain materials in
6. For 'Product Density', enter the density of the material in units of 'pounds per gallon'. If your MSDS provides density in the form of 'Specific Gravity' compared to water, use the
7. For 'VOC Content', enter either the VOC by weight percent (weight %), or in pounds of VOC per gallon of material. Do not enter both.
8. For 'Release Factor', enter the amount of VOC that is actually emitted into the atmosphere as a result of material use. For most materials, this will be 100% unless you have

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)
Blaster 10000	XYZ Solvent Co.	1-1	Solvent	1,000	6.50	25.00%		1,625.0	100.00%	1,625.0
Triple Crown Adhesive	Trojan Ponies, Inc.	3-2, 5-1	Adhesive	5,000	7.40		3.00	15,000.0	100.00%	15,000.0

Conversion Tools

Specific Gravity to Density:		< Enter Specific Gravity
Pounds to Gallons:		< Enter Pounds Used per Year
Cans to Gallons:		< Enter # of Cans Used per Year

		< Enter Density (lbs/gal)
		< Enter Capacity (fl oz.)

Density (lbs/gallon):	0.00
Gallons per Year:	0.00
Gallons per Year:	0.00

This spreadsheet allows for entry of up to 160 materials. When printing, be sure to specify printing only of pages that contain material data.

End of Instructions. Complete the table below.

SECTION 5 – MAXIMUM POTENTIAL TO EMIT (MPTE)

Note: The figures presented in this table are for informative purposes only, and

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)
1% T Solution (Accelerator)	USP	N/A	Solvent	1	7.83	100.00%		7.8	100.00%	**7.8**
3M Citrus Base Industrial Cleaner	3M	N/A	Solvent	84	6.53	94.63%		519.1	100.00%	**519.1**
3M Finesse-It Compounding Material Ivory	3M	N/A	Solvent	1	9.75	30.58%		3.0	100.00%	**3.0**
3M Finesse-It Finishing Material	3M	N/A	Solvent	205	8.58	28.59%		502.9	100.00%	**502.9**
3M Scotch-Weld Neoprene High Perform. Adhesive	3M	N/A	Adhesive	780	6.66	59.64%		3,100.0	100.00%	**3,100.0**
Accelerator (RC)	DP	N/A	Paint/Coat	38	8.19	97.68%		304.0	100.00%	**304.0**
Activator 80 JW1	ASH	N/A	Solvent	3	7.35	100.00%		22.1	100.00%	**22.1**
Activator IGJB-8T-2T	NEX	N/A	Solvent	500	7.30	100.00%		3,650.0	100.00%	**3,650.0**
Activator, VGM 6005, (RC)	DP	N/A	Paint/Coat	100	9.35	9.63%		90.0	100.00%	**90.0**
Adhesion Promoter	USP	N/A	Paint/Coat	353	7.66	76.86%		2,077.8	100.00%	**2,077.8**
Advance Anti-Freeze and Coolant (emission factor of 1%)	OWI	N/A	Lubricant	15,260	9.30	97.00%		137,660.5	100.00%	**137,660.5**
Aluminum Baking	DV	N/A	Paint/Coat	13	8.27	58.89%		63.3	100.00%	**63.3**
Aqualac 35 Series (water base paint, various colors)	PC	N/A	Paint/Coat	20	8.74	6.80%		11.9	100.00%	**11.9**
Aviation Gasoline (emission factor of 1%)	CP	N/A	Fuel	6,439	5.83	100.00%		37,539.4	100.00%	**37,539.4**

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Barsol A-2595	BS	N/A	Solvent	110	7.27	100.00%	[redacted]	799.7	100.00%	**799.7**
Barsol A-2596	BS	N/A	Solvent	550	7.52	100.00%	[redacted]	4,136.0	100.00%	**4,136.0**
Barsol A-2599	BS	N/A	Solvent	110	7.42	100.00%	[redacted]	816.2	100.00%	**816.2**
Barsol A3560	BS	N/A	Solvent	330	7.25	100.00%	[redacted]	2,391.5	100.00%	**2,391.5**
Barsol A4025	BS	N/A	Solvent	550	7.41	100.00%	[redacted]	4,077.5	100.00%	**4,077.5**
Barsol A4131 (emission factor of 30%)	BS	N/A	Solvent	19,494	6.91	100.00%	[redacted]	134,779.6	100.00%	**134,779.6**
Barsol C643	BS	N/A	Solvent	5	9.41	100.00%	[redacted]	47.1	100.00%	**47.1**
Barsol D-100	BS	N/A	Solvent	385	7.25	100.00%	[redacted]	2,791.3	100.00%	**2,791.3**
Barsol D-150	BS	N/A	Solvent	220	7.41	100.00%	[redacted]	1,630.2	100.00%	**1,630.2**
Barsol DB	BS	N/A	Solvent	55	7.94	100.00%	[redacted]	436.7	100.00%	**436.7**
Barsol EB	BS	N/A	Solvent	385	7.50	100.00%	[redacted]	2,887.5	100.00%	**2,887.5**
Black Baking Enamel	DV	N/A	Paint/Coat	1,853	8.11	57.83%	[redacted]	8,690.6	100.00%	**8,690.6**
Cationic Vehicle	PPG	N/A	E-Coat	16,200	8.76	1.00%	[redacted]	1,419.1	100.00%	**1,419.1**
Clear Urethane (5/2010)	USP	N/A	Paint/Coat	8	8.25	60.34%	[redacted]	39.8	100.00%	**39.8**
Converter - Polyurethane	USP	N/A	Paint/Coat	45	8.35	58.26%	[redacted]	218.9	100.00%	**218.9**
Corlar 2.8 PR High Solids Epoxy Primer, (RC)	DP	N/A	Paint/Coat	106	12.01	23.31%	[redacted]	296.8	100.00%	**296.8**
Corlar Activator	DP	N/A	Paint/Coat	109	11.86	19.39%	[redacted]	250.7	100.00%	**250.7**
Corlar VF-525 Activator, (RC)	DP	N/A	Paint/Coat	1	10.74	19.55%	[redacted]	2.1	100.00%	**2.1**
DBE	BS	N/A	Solvent	275	9.08	100.00%	[redacted]	2,496.9	100.00%	**2,496.9**
Diesel Fuel (emission factor of 1%)	CP	N/A	Fuel	6,827	7.08	100.00%	[redacted]	48,335.2	100.00%	**48,335.2**
Dowanol PPH Glycol Ether	BS	N/A	Solvent	165	8.83	100.00%	[redacted]	1,457.0	100.00%	**1,457.0**
DTP AP Green	USP	N/A	Paint/Coat	2,703	8.12	68.69%	[redacted]	15,074.6	100.00%	**15,074.6**
Eastman EEP Solvent	BS	N/A	Solvent	660	7.90	100.00%	[redacted]	5,214.0	100.00%	**5,214.0**
Ebony Black Undercoat, 12/7/2005	USP	N/A	Paint/Coat	10	8.15	61.94%	[redacted]	50.5	100.00%	**50.5**
Enamel and Lacquer Clean-Up Solvent	DP	N/A	Solvent	1	6.52	100.00%	[redacted]	6.5	100.00%	**6.5**
Ethyl Acetate	BS	N/A	Solvent	1,375	7.51	100.00%	[redacted]	10,326.3	100.00%	**10,326.3**
Fish Eye Eliminator	USP	N/A	Paint/Coat	11	7.26	99.00%	[redacted]	79.0	100.00%	**79.0**
Flat Black Baking Enamel	USP	N/A	Paint/Coat	192	8.99	38.93%	[redacted]	672.0	100.00%	**672.0**
Flow Agent	USP	N/A	Solvent	26	7.33	93.23%	[redacted]	177.7	100.00%	**177.7**
Grafaway Brown	DP	N/A	Paint/Coat	3	10.15	29.56%	[redacted]	9.0	100.00%	**9.0**
Grafaway Brown (aerosol)	CPP	N/A	Paint/Coat	10	6.59	43.72%	[redacted]	28.8	100.00%	**28.8**
Grafaway Frosty White (aerosol)	CPP	N/A	Paint/Coat	2	6.65	43.63%	[redacted]	5.8	100.00%	**5.8**
Grafaway Haze (aerosol)	CPP	N/A	Paint/Coat	6	6.70	42.82%	[redacted]	17.2	100.00%	**17.2**
Gray Paint, 3.5 HG, (LF42P3033), (RC)	DP	N/A	Paint/Coat	6	9.35	40.64%	[redacted]	22.8	100.00%	**22.8**
Gray Paint, 3.5 HG, (RC)	DP	N/A	Paint/Coat	13	9.33	40.73%	[redacted]	49.4	100.00%	**49.4**
Haze	DP	N/A	Paint/Coat	2	8.83	58.89%	[redacted]	10.4	100.00%	**10.4**
Hexyl Cellosolve	BS	N/A	Solvent	220	7.40	100.00%	[redacted]	1,628.0	100.00%	**1,628.0**
High Solids Converter	USP	N/A	Paint/Coat	1,876	9.07	19.96%	[redacted]	3,395.6	100.00%	**3,395.6**
High Solids Hi Heat Black L/F	USP	N/A	Paint/Coat	1,238	11.41	29.72%	[redacted]	4,198.1	100.00%	**4,198.1**
High Solids Urethane Thinner, (RC)	DP	N/A	Solvent	69	7.53	100.00%	[redacted]	519.6	100.00%	**519.6**
Imron 3.5 HG - Aluminum, (RC)	DP	N/A	Paint/Coat	32	9.10	34.07%	[redacted]	99.2	100.00%	**99.2**
Imron 3.5 HG (Black), (RC)	DP	N/A	Paint/Coat	9	8.54	46.84%	[redacted]	36.0	100.00%	**36.0**
Imron 3.5 HG Black	DP	N/A	Paint/Coat	258	8.34	45.56%	[redacted]	980.4	100.00%	**980.4**
Imron 3.5 HG Blue, (RC)	DP	N/A	Paint/Coat	1	9.00	42.22%	[redacted]	3.8	100.00%	**3.8**
Imron 333M-42P3301, V-Top Red, (RC)	DP	N/A	Paint/Coat	55	8.74	43.48%	[redacted]	209.0	100.00%	**209.0**
Imron 333M-42P3302, V-Top Yellow, (RC)	DP	N/A	Paint/Coat	5	8.61	44.13%	[redacted]	19.0	100.00%	**19.0**
Imron 5000 Accelerator	DP	N/A	Paint/Coat	1	8.15	94.48%	[redacted]	7.7	100.00%	**7.7**
Imron 5000 Reducer (RC)	DP	N/A	Paint/Coat	11	7.55	99.34%	[redacted]	82.5	100.00%	**82.5**
Imron Accelerator	DP	N/A	Paint/Coat	2	8.14	100.00%	[redacted]	16.3	100.00%	**16.3**

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Imron Activator EZ-3461S	DP	N/A	Paint/Coat	22	9.09	25.30%		50.6	100.00%	**50.6**
Imron Clearcoat EZ-3460S	DP	N/A	Paint/Coat	68	7.87	35.58%		190.4	100.00%	**190.4**
Isopropyl Alcohol	BS	N/A	Solvent	2,702	6.58	100.00%		17,779.2	100.00%	**17,779.2**
Low Gloss Clear	USP	N/A	Paint/Coat	986	8.54	55.49%		4,672.7	100.00%	**4,672.7**
LPS Heavy Duty Silicone Lubricant	LPS	N/A	Lubricant	14	7.83	31.93%		35.0	100.00%	**35.0**
MAG One DOT 4 Brake Fluid (emission factor of 0.1%)	WD	N/A	Lubricant	1,635	8.66	100.00%		14,164.3	100.00%	**14,164.3**
Methyl Ethyl Ketone	BS	N/A	Solvent	110	6.67	100.00%		733.7	100.00%	**733.7**
Methyl n-Amyl Ketone	BS	N/A	Solvent	1,130	6.81	100.00%		7,690.3	100.00%	**7,690.3**
n-Butanol	BS	N/A	Solvent	180	6.75	100.00%		1,215.7	100.00%	**1,215.7**
n-Butyl Acetate	BS	N/A	Solvent	1,080	7.33	100.00%		7,916.3	100.00%	**7,916.3**
Nitro-Stan Spot and Glazing Putty	STAN	N/A	Adhesive	1	13.00	30.31%		3.9	100.00%	**3.9**
Polyester Glazing Putty	ITW	N/A	Adhesive	3	14.90	13.83%		6.2	100.00%	**6.2**
Powercron Black Paste	PPG	N/A	E-Coat	750	10.26	7.50%		577.5	100.00%	**577.5**
Powercron Gray Paste	PPG	N/A	E-Coat	2,350	11.68	7.48%		2,053.9	100.00%	**2,053.9**
Powercron Replenishment	PPG	N/A	E-Coat	16,740	9.10	1.87%		2,845.8	100.00%	**2,845.8**
Premi-Glas (SMC, use expressed as gallons of styrene, emission factor of 1%)	PM	N/A	E-Coat	23,883	7.56	100.00%		180,531.6	100.00%	**180,531.6**
Prep-Sol	DP	N/A	Paint/Coat	12	6.51	99.85%		78.0	100.00%	**78.0**
Primer C, (RC)	SHIN	N/A	Paint/Coat	93	6.83	79.93%		507.8	100.00%	**507.8**
Reducer	USP	N/A	Paint/Coat	30	6.49	100.00%		194.7	100.00%	**194.7**
Retarder	DP	N/A	Solvent	2	7.85	100.00%		15.7	100.00%	**15.7**
Scotchal Brand Edge Sealer 3950	3M	N/A	Paint/Coat	1	8.08	55.00%		4.4	100.00%	**4.4**
Special Protective Oil	CHEM	N/A	Lubricant	110	6.60	90.00%		653.4	100.00%	**653.4**
Spectramaster Green, DIC Imron 3.5 HG	DP	N/A	Paint/Coat	1	8.98	41.20%		3.7	100.00%	**3.7**
Sprayon All-Purpose Silicone Lube	SP	N/A	Lubricant	89	5.95	92.77%		491.3	100.00%	**491.3**
Strippable White Vinyl Coating (paint booth mastic)	DV	N/A	Paint/Coat	318	7.82	69.95%		1,739.5	100.00%	**1,739.5**
Tert Butyl Acetate	BS	N/A	Solvent	130	7.18	100.00%		933.5	100.00%	**933.5**
Thinner for Corlar 2.1ST (25P), (RC)	DP	N/A	Solvent	7	6.67	100.00%		46.7	100.00%	**46.7**
Thinner for Corlar Epoxy Coatings	DP	N/A	Solvent	21	7.25	100.00%		152.3	100.00%	**152.3**
Thinner, (RC)	DP	N/A	Solvent	41	7.20	100.00%		295.2	100.00%	**295.2**
Thinner, DuPont, (RC)	DP	N/A	Solvent	2	6.48	100.00%		13.0	100.00%	**13.0**
Topcoat-Sovlentborne (Imron 3.5 HG White)	DP	N/A	Paint/Coat	3	10.99	34.58%		11.4	100.00%	**11.4**
Tyrite 7501A Urethane Adhesive (constituents do not volatilize)	LORD	N/A	Adhesive	11,440	12.12	0.00%		0.0	100.00%	**0.0**
Tyrite 7503B Urethane Adhesive (constituents do not volatilize)	LORD	N/A	Adhesive	15,785	10.21	0.00%		0.0	100.00%	**0.0**
Tyrite 7547A Urethane Adhesive (constituents do not volatilize)	LORD	N/A	Adhesive	550	12.60	0.00%		0.0	100.00%	**0.0**
Unleaded Gasoline (emission factor of 1%)	CP	N/A	Fuel	7,168	6.25	100.00%		44,800.0	100.00%	**44,800.0**
USP 1K HD Hardwoods (Basecoat)	USP	N/A	Paint/Coat	10	9.52	49.78%		47.4	100.00%	**47.4**
USP 25Y Pearl Stardust White Basecoat	USP	N/A	Paint/Coat	327	10.49	36.21%		1,241.6	100.00%	**1,241.6**
USP 25Y Pearl Stardust White Pearlcoat	USP	N/A	Paint/Coat	532	7.95	52.72%		2,230.1	100.00%	**2,230.1**
USP Candy Lime Green	USP	N/A	Paint/Coat	1,225	8.43	61.41%		6,339.4	100.00%	**6,339.4**
USP Candy Persimmon Red	USP	N/A	Paint/Coat	5	8.09	68.55%		27.7	100.00%	**27.7**
USP Candy Thunder Blue Monocoat	USP	N/A	Paint/Coat	205	7.81	60.72%		972.3	100.00%	**972.3**
USP Canyon Silver Metallic	USP	N/A	Paint/Coat	5	8.10	61.34%		24.8	100.00%	**24.8**
USP Cosmic Pearl Gray H/S B/C	USP	N/A	Paint/Coat	5	8.28	42.97%		17.8	100.00%	**17.8**
USP DTP Fine Silver	USP	N/A	Paint/Coat	245	7.53	77.58%		1,431.5	100.00%	**1,431.5**

USP DTP Flame Gray	USP	N/A	Paint/Coat	106	7.44	77.53%		611.2	100.00%	**611.2**
USP DTP Lime Green	USP	N/A	Paint/Coat	272	7.68	72.65%		1,517.2	100.00%	**1,517.2**
USP DTP Meteor Blue (MSDS 01/21/2010)	USP	N/A	Paint/Coat	114	7.76	75.23%		665.4	100.00%	**665.4**
USP Ebony Black	USP	N/A	Paint/Coat	2,865	8.28	65.02%		15,422.3	100.00%	**15,422.3**
USP Firecracker Red Topcoat L/F H/S	USP	N/A	Paint/Coat	45	8.31	44.94%		168.0	100.00%	**168.0**
USP Flat Black Urethane Topcoat	USP	N/A	Paint/Coat	239	8.39	62.62%		1,256.4	100.00%	**1,256.4**
USP Galaxy Silver	USP	N/A	Paint/Coat	274	8.25	56.97%		1,287.5	100.00%	**1,287.5**
USP H/S Converter	USP	N/A	Paint/Coat	1,148	8.98	25.40%		2,617.4	100.00%	**2,617.4**
USP Hi-Heat Black Touch-Up Aerosol	USP	N/A	Paint/Coat	9	10.06	51.08%		46.2	100.00%	**46.2**
USP Jet Ski White	USP	N/A	Paint/Coat	1,081	11.67	30.39%		3,832.1	100.00%	**3,832.1**
USP Jet Ski White Basecoat	USP	N/A	Paint/Coat	159	11.95	35.94%		682.7	100.00%	**682.7**
USP KMM Metallic Tungsten Gray	USP	N/A	Paint/Coat	1,132	8.32	56.34%		5,307.9	100.00%	**5,307.9**
USP Light Gray Primer/Surfacer	USP	N/A	Paint/Coat	2,405	12.55	25.43%		7,674.4	100.00%	**7,674.4**
USP Lime Green #777	USP	N/A	Paint/Coat	588	10.03	40.13%		2,366.7	100.00%	**2,366.7**
USP Luminous Vintage Red	USP	N/A	Paint/Coat	778	7.83	61.96%		3,774.9	100.00%	**3,774.9**
USP Max-1 Brown Basecoat	USP	N/A	Paint/Coat	5	9.60	56.43%		27.1	100.00%	**27.1**
USP Metallic Dark Brown	USP	N/A	Paint/Coat	35	8.70	36.44%		111.0	100.00%	**111.0**
USP Metallic Graystone	USP	N/A	Paint/Coat	5	8.12	58.97%		23.9	100.00%	**23.9**
USP Metallic Nocturne Blue	USP	N/A	Paint/Coat	132	8.11	55.97%		598.8	100.00%	**598.8**
USP Metallic Phantom Silver	USP	N/A	Paint/Coat	242	8.29	56.11%		1,126.3	100.00%	**1,126.3**
USP Metallic Sonic Blue	USP	N/A	Paint/Coat	315	8.12	57.14%		1,461.6	100.00%	**1,461.6**
USP Metallic Surf Blue	USP	N/A	Paint/Coat	349	8.25	55.84%		1,607.1	100.00%	**1,607.1**
USP Metallic Titanium	USP	N/A	Paint/Coat	872	8.37	54.65%		3,988.5	100.00%	**3,988.5**
USP Overcoat Clear L/F	USP	N/A	Paint/Coat	4,736	7.98	50.88%		19,228.2	100.00%	**19,228.2**
USP Pearl Mystic Black	USP	N/A	Paint/Coat	5	7.89	56.62%		22.3	100.00%	**22.3**
USP Pearl Yellow Clear	USP	N/A	Paint/Coat	5	7.98	50.84%		20.3	100.00%	**20.3**
USP Primer Converter	USP	N/A	Paint/Coat	1,293	7.52	41.92%		4,076.8	100.00%	**4,076.8**
USP PWC Clear	USP	N/A	Paint/Coat	2,686	8.12	64.90%		14,152.5	100.00%	**14,152.5**
USP Ruby Red Metallic	USP	N/A	Paint/Coat	5	8.47	55.17%		23.4	100.00%	**23.4**
USP Stoic Black	USP	N/A	Paint/Coat	357	9.43	44.09%		1,483.7	100.00%	**1,483.7**
USP Sunbeam Red Basecoat	USP	N/A	Paint/Coat	135	8.44	50.83%		579.2	100.00%	**579.2**
USP Sunbeam Red Basecoat	USP	N/A	Paint/Coat	497	8.22	50.95%		2,081.9	100.00%	**2,081.9**
USP Sunbeam Red Monocoat	USP	N/A	Paint/Coat	40	8.72	43.53%		151.9	100.00%	**151.9**
USP Sunbeam Red Monocoat	USP	N/A	Paint/Coat	5	8.55	45.06%		19.3	100.00%	**19.3**
USP Touch-Up Converter	USP	N/A	Paint/Coat	12	8.95	26.87%		28.9	100.00%	**28.9**
USP UTV Inset Brown Basecoat	USP	N/A	Paint/Coat	1	10.04	46.69%		4.7	100.00%	**4.7**
USP Waterbased White Robot Paint	USP	N/A	Paint/Coat	5	9.83	11.81%		5.8	100.00%	**5.8**
USP Watercraft Topcoat Reducer	USP	N/A	Solvent	65	7.20	100.00%		468.0	100.00%	**468.0**
Xylene	BS	N/A	Solvent	165	7.24	100.00%		1,194.6	100.00%	**1,194.6**
Zep Powersolv 5000	ZEP	N/A	Solvent	6	11.27	96.54%		65.3	100.00%	**65.3**
Zeplon (aerosol lubricant)	ZEP	N/A	Lubricant	14	5.75	95.90%		77.2	100.00%	**77.2**

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

For each HAP-containing material used at your source, enter the requested information in Table 5-C in the manner shown in the example table below. Do not include HAP emissions from materials that are used in an 'Insignificant Activity', as prescribed in the Instructions for Section 4.

1. For 'Material Name' (Column A), enter the name of the material as it appears on the associated Material Safety Data Sheet (MSDS). If a material contains multiple HAP components,
2. For 'HAP Name' (Column B), enter the name of the hazardous air pollutant (HAP) constituent.
3. For 'HAP CAS #' (Column C), enter the Chemical Abstracts Service (CAS) number for the corresponding HAP. These can be found at the link provided below. Only enter numbers in
4. For 'Emission Unit #(s) (Column D), enter the number of the emission unit (or units) with which the material used is associated. For example, if you utilize the same adhesive in
5. For 'Material Throughput' (Column E), enter the maximum annual throughput either in gallons, or in pounds. Only enter material throughput ONCE for each material. If you keep
6. For 'Throughput Units' (Column F), specify which units you have supplied material throughput data in. Your only options are 'pounds' or 'gallons'.
7. For 'HAP Content' (Column G), enter either the amount of each HAP by weight percent (weight %), or in pounds of HAP per gallon of material. If you enter the weight percent, do not
8. For 'HAP Content Units' (Column H), specify which units you have supplied the individual HAP content in. Your only options are weight percent (weight %), or in pounds of HAP per
9. For 'Product Density' (Column I), you are only required to enter density if the cell is highlighted in yellow. If prompted, provide the density of the material in units of 'pounds per
10. For 'Release Factor' (Column K), enter the amount of HAP that is actually emitted into the atmosphere as a result of material use. For most materials, this will be 100% unless you
11. Cells that are filled in with dark gray do not require data. Do not enter any information in these cells.

CLICK HERE FOR EPA'S LIST OF HAZARDOUS AIR POLLUTANTS (HAP).

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)
Blaster 10000	Xylenes	1330-20-7	1-1	1,000	gallons	15.00	weight %	10.00	1,500.0	100.00%	1,500.0
	Toluene	108-88-3				5.00	weight %		500.0		500.0
	Methylene chloride	75-09-2				3.00	weight %		300.0		300.0
Triple Crown Adhesive	Hexane	110-54-3	3-2, 5-1	5,000	gallons	1.00	lbs/gallon		5,000.0	100.00%	5,000.0
	Methanol	67-56-1				0.50	lbs/gallon		2,500.0		2,500.0
	Cumene	98-82-8				0.50	lbs/gallon		2,500.0		2,500.0
	Ethyl benzene	100-41-4				0.25	lbs/gallon		1,250.0		1,250.0

Conversion Tools

Specific Gravity to Density:		< Enter Specific Gravity		Density (lbs/gallon):	0.00
Cans to Gallons:		< Enter # of Cans Used per Year	< Enter Capacity (fl oz.)	Gallons per Year:	0.00

This spreadsheet allows for entry of up to 250 rows of HAP data. When printing, be sure to specify printing only of pages that contain data.

End of instructions. Complete the table below.

SECTION 5 – MAXIMUM POTENTIAL TO EMIT (MPTE)

Note: The figures presented in this table are for informative purposes only, and represent CY2011 throughputs. Maximum PTE for total HAPs is provided in Table 5-

FALSE

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)	Material Throughput	Throughput Units	Density	% Release
3M Finesse-It Compounding	Ethyl benzene	100-41-4	N/A	1	gallons	0.02	weight %	9.75	0.0	100.00%	0.002	1	gallons	9.7461	100.00%
	Naphthalene	91-20-3				0.10	weight %		0.0		0.010	1	gallons	9.7461	100.00%
3M Scotch-Weld Neoprene H	n-Hexane	110-54-3	N/A	780	gallons	20.00	weight %	6.66	1,039.6	100.00%	1,039.6	780	gallons	6.664	100.00%
	Toluene	108-88-3				5.00	weight %		259.9		259.9	780	gallons	6.664	100.00%
Activator 80 JW1	Dibutylphthalate	84-74-2	N/A	3	gallons	9.50	weight %	7.35	2.1	100.00%	2.1	3	gallons	7.35	100.00%
	Ethyl benzene	100-41-4				12.95	weight %		2.9		2.9	3	gallons	7.35	100.00%
	Ethylene glycol	107-21-1				5.52	weight %		1.2		1.2	3	gallons	7.35	100.00%
	MIBK	108-10-1				4.54	weight %		1.0		1.0	3	gallons	7.35	100.00%
	Xylene	1330-20-7				47.09	weight %		10.4		10.4	3	gallons	7.35	100.00%
Activator IGJB-8T-2T	Dibutylphthalate	84-74-2	N/A	500	gallons	5.98	weight %	7.30	218.3	100.00%	218.3	500	gallons	7.3	100.00%
	Ethyl benzene	100-41-4				14.80	weight %		540.2		540.2	500	gallons	7.3	100.00%
	MIBK	108-10-1				9.16	weight %		334.3		334.3	500	gallons	7.3	100.00%
	Xylene	1330-20-7				49.33	weight %		1,800.5		1,800.5	500	gallons	7.3	100.00%
Activator, VGM 6005, (RC)	Hexamethylene-1,6-diisocy	822-06-0	N/A	100	gallons	0.20	weight %	9.35	1.9	100.00%	1.9	100	gallons	9.35	100.00%
Adhesion Promoter	Chloroform	67-66-3	N/A	353	gallons	0.60	weight %	7.66	16.2	100.00%	16.2	353	gallons	7.6582	100.00%
Advance Anti-Freeze and Coo	Ethylene glycol	107-21-1	N/A	15,260	gallons	92.50	weight %	9.30	131,274.2	100.00%	131,274.2	15260	gallons	9.3	100.00%
Aluminum Baking	Ethyl benzene	100-41-4	N/A	13	gallons	5.50	weight %	8.27	5.9	100.00%	5.9	13	gallons	8.27	100.00%
	Xylene	1330-20-7				25.30	weight %		27.2		27.2	13	gallons	8.27	100.00%
Aviation Gasoline (emission f	Benzene	71-43-2	N/A	6,439	gallons	0.25	weight %	5.83	93.8	100.00%	93.8	6439	gallons	5.83	100.00%
	Toluene	108-88-3				5.00	weight %		1,877.0		1,877.0	6439	gallons	5.83	100.00%
Barsol A-2595	Toluene	108-88-3	N/A	110	gallons	20.00	weight %	7.27	159.9	100.00%	159.9	110	gallons	7.27	100.00%
Barsol A-2596	Glycol ethers	-17-1	N/A	550	gallons	9.00	weight %	7.52	372.2	100.00%	372.2	550	gallons	7.52	100.00%
Barsol A-2599	Glycol ethers	-17-1	N/A	110	gallons	9.00	weight %	7.42	73.5	100.00%	73.5	110	gallons	7.42	100.00%
	Xylene	1330-20-7				44.00	weight %		359.1		359.1	110	gallons	7.42	100.00%
Barsol C643	Perchloroethylen	127-18-4	N/A	5	gallons	50.00	weight %	9.41	23.5	100.00%	23.5	5	gallons	9.4129	100.00%
	Toluene	108-88-3				50.00	weight %		23.5		23.5	5	gallons	9.4129	100.00%
Barsol D-100	Cumene	98-82-8	N/A	385	gallons	1.10	weight %	7.25	30.7	100.00%	30.7	385	gallons	7.25	100.00%
	Xylene	1330-20-7				2.20	weight %		61.4		61.4	385	gallons	7.25	100.00%
Barsol D-150	Naphthalene	91-20-3	N/A	220	gallons	9.90	weight %	7.41	161.4	100.00%	161.4	220	gallons	7.41	100.00%
Barsol DB	Glycol ethers	-17-1	N/A	55	gallons	100.00	weight %	7.94	436.7	100.00%	436.7	55	gallons	7.94	100.00%
Barsol EB	Glycol ethers	-17-1	N/A	385	gallons	100.00	weight %	7.50	2,887.5	100.00%	2,887.5	385	gallons	7.5	100.00%
Black Baking Enamel	Ethyl benzene	100-41-4	N/A	1,853	gallons	12.25	weight %	8.11	1,840.9	100.00%	1,840.9	1853	gallons	8.11	100.00%
	Formaldehyde	50-00-0				0.48	weight %		72.1		72.1	1853	gallons	8.11	100.00%
	Xylene	1330-20-7				35.00	weight %		5,259.7		5,259.7	1853	gallons	8.11	100.00%
Clear Urethane (5/2010)	MIBK	108-10-1	N/A	8	gallons	3.00	weight %	8.25	2.0	100.00%	2.0	8	gallons	8.2481	100.00%
	Methyl methacrylate	80-62-6				2.00	weight %		1.3		1.3	8	gallons	8.2481	100.00%
	Toluene	108-88-3				8.00	weight %		5.3		5.3	8	gallons	8.2481	100.00%
	Xylene	1330-20-7				3.00	weight %		2.0		2.0	8	gallons	8.2481	100.00%
Converter - Polyurethane	Glycol ethers	-17-1	N/A	45	gallons	24.00	weight %	8.35	90.2	100.00%	90.2	45	gallons	8.3505	100.00%
	Toluene	108-88-3				11.00	weight %		41.3		41.3	45	gallons	8.3505	100.00%
	Xylene	1330-20-7				3.00	weight %		11.3		11.3	45	gallons	8.3505	100.00%
Corlar Activator	Toluene	108-88-3	N/A	109	gallons	9.40	weight %	11.86	121.5	100.00%	121.5	109	gallons	11.86	100.00%
Corlar VF-525 Activator, (RC)	Toluene	108-88-3	N/A	1	gallons	10.00	weight %	10.74	1.1	100.00%	1.1	1	gallons	10.74	100.00%
Diesel Fuel	Naphthalene	91-20-3	N/A	6,827	gallons	0.50	weight %	7.08	241.7	100.00%	241.7	6827	gallons	7.08	100.00%
DTP AP Green	Toluene	108-88-3	N/A	2,703	gallons	9.00	weight %	8.12	1,975.1	100.00%	1,975.1	2703	gallons	8.1188	100.00%
Ebony Black Undercoat, 12/7	Ethyl benzene	100-41-4	N/A	10	gallons	0.35	weight %	8.15	0.3	100.00%	0.3	10	gallons	8.1467	100.00%
	MIBK	108-10-1				2.00	weight %		1.6		1.6	10	gallons	8.1467	100.00%
	Toluene	108-88-3				10.00	weight %		8.1		8.1	10	gallons	8.1467	100.00%
	Xylene	1330-20-7				1.00	weight %		0.8		0.8	10	gallons	8.1467	100.00%
Enamel and Lacquer Clean-Up	Toluene	108-88-3	N/A	1	gallons	14.00	weight %	6.52	0.9	100.00%	0.9	1	gallons	6.52	100.00%
Fish Eye Eliminator	Ethyl benzene	100-41-4	N/A	11	gallons	19.80	weight %	7.26	15.8	100.00%	15.8	11	gallons	7.2559	100.00%
	Xylene	1330-20-7				79.00	weight %		63.1		63.1	11	gallons	7.2559	100.00%
Flat Black Baking Enamel	Ethyl benzene	100-41-4	N/A	192	gallons	0.64	weight %	8.99	11.0	100.00%	11.0	192	gallons	8.99	100.00%
	Xylene	1330-20-7				3.42	weight %		59.0		59.0	192	gallons	8.99	100.00%
Flow Agent	Ethyl benzene	100-41-4	N/A	26	gallons	18.13	weight %	7.33	34.6	100.00%	34.6	26	gallons	7.3315	100.00%
	Glycol ethers	-17-1				2.00	weight %		3.8		3.8	26	gallons	7.3315	100.00%
	Xylene	1330-20-7				73.00	weight %		139.2		139.2	26	gallons	7.3315	100.00%
Grafaway Brown	Ethyl benzene	100-41-4	N/A	3	gallons	0.10	weight %	10.15	0.0	100.00%	0.030	3	gallons	10.15	100.00%
	Toluene	108-88-3				3.00	weight %		0.9		0.9	3	gallons	10.15	100.00%
Grafaway Brown (aerosol)	Ethyl benzene	100-41-4	N/A	10	gallons	2.00	weight %	6.59	1.3	100.00%	1.3	10	gallons	6.589	100.00%
	Toluene	108-88-3				9.00	weight %		5.9		5.9	10	gallons	6.589	100.00%
Grafaway Frosty White (aero	Ethyl benzene	100-41-4	N/A	2	gallons	2.00	weight %	6.65	0.3	100.00%	0.3	2	gallons	6.6473	100.00%
	Toluene	108-88-3				9.00	weight %		1.2		1.2	2	gallons	6.6473	100.00%
Grafaway Haze (aerosol)	Ethyl benzene	100-41-4	N/A	6	gallons	2.00	weight %	6.70	0.8	100.00%	0.8	6	gallons	6.6973	100.00%
	Toluene	108-88-3				9.00	weight %		3.6		3.6	6	gallons	6.6973	100.00%
Gray Paint, 3.5 HG, (LF42P303	Ethyl benzene	100-41-4	N/A	6	gallons	0.50	weight %	9.35	0.3	100.00%	0.3	6	gallons	9.35	100.00%
	Glycol ethers	-17-1				2.00	weight %		1.1		1.1	6	gallons	9.35	100.00%
	Xylene	1330-20-7				2.50	weight %		1.4		1.4	6	gallons	9.35	100.00%
Gray Paint, 3.5 HG, (RC)	Ethyl benzene	100-41-4	N/A	13	gallons	0.50	weight %	9.33	0.6	100.00%	0.6	13	gallons	9.33	100.00%
	Glycol ethers	-17-1				2.00	weight %		2.4		2.4	13	gallons	9.33	100.00%
	Xylene	1330-20-7				2.00	weight %		2.4		2.4	13	gallons	9.33	100.00%
Haze	Ethyl benzene	100-41-4	N/A	2	gallons	0.60	weight %	8.83	0.1	100.00%	0.1	2	gallons	8.83	100.00%
	MIBK	108-10-1				22.00	weight %		3.9		3.9	2	gallons	8.83	100.00%
	Xylene	1330-20-7				2.00	weight %		0.4		0.4	2	gallons	8.83	100.00%
Hexyl Cellosolve	Glycol ethers	-17-1	N/A	220	gallons	100.00	weight %	7.40	1,628.0	100.00%	1,628.0	220	gallons	7.4	100.00%
High Solids Converter	Hexamethylene-1,6-diisocy	822-06-0	N/A	1,876	gallons	0.25	weight %	9.07	42.5	100.00%	42.5	1876	gallons	9.0684	100.00%
High Solids Hi Heat Black L/F	Cumene	98-82-8	N/A	1,238	gallons	0.06	weight %	11.41	8.5	100.00%	8.5	1238	gallons	11.4081	100.00%
	Ethyl benzene	100-41-4				1.38	weight %		194.9		194.9	1238	gallons	11.4081	100.00%

Throughput Units	HAP Units
pounds	weight %
gallons	lbs/gallon

Largest HAP Calculation Array

171	6161.060735
50000	73.91350718
51285	0
51796	0
53963	0
56235	0
56382	0
57125	0
57147	0
57578	0
57749	0
58899	0
59892	0
60117	0
60344	0
60355	0
62533	0
62737	0
62759	0
63252	0
64675	0
67561	0
67663	16.2200676
67721	0
68122	0
71432	1213.848425
71556	0
72435	0
74839	0
74873	0
74884	0
75003	0
75014	0
75058	0
75070	0
75092	0
75150	0
75218	0
75252	0
75343	0
75354	0
75445	0
75558	0
75569	0
76448	0
77474	0
77781	0
78591	0
78875	0
79005	0
79016	0
79061	0
79107	0
79118	0
79345	0
79447	0
79469	0
80626	660.666939
82688	0
84742	220.36475
85449	0
87683	0
87865	0
88062	0
90040	0
91203	1024.60057
91225	0
91941	0
92524	0
92671	0
92875	0
92933	0
94757	0
95476	0
95487	0
95534	0
95807	0
95954	0
96093	0

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	Formaldehyde	50-00-0				0.01	weight %		1.4		1.4	1238	gallons	11.4081	100.00%		96128	0
	Toluene	108-88-3				0.08	weight %		11.3		11.3	1238	gallons	11.4081	100.00%		96457	0
	Xylene	1330-20-7				6.27	weight %		885.5		885.5	1238	gallons	11.4081	100.00%		98077	0
High Solids Urethane Thinne	Ethyl benzene	100-41-4	N/A	69	gallons	8.75	weight %	7.53	45.5	100.00%	45.5	69	gallons	7.53	100.00%		98828	41.76992668
	Glycol ethers	-17-1				50.00	weight %		259.8		259.8	69	gallons	7.53	100.00%		98862	0
	Xylene	1330-20-7				41.50	weight %		215.6		215.6	69	gallons	7.53	100.00%		98953	0
Imron 3.5 HG - Aluminum, (R	Ethyl benzene	100-41-4	N/A	32	gallons	0.60	weight %	9.10	1.7	100.00%	1.7	32	gallons	9.1	100.00%		100027	0
	Glycol ethers	-17-1				6.00	weight %		17.5		17.5	32	gallons	9.1	100.00%		100414	3653.584107
	Toluene	108-88-3				3.00	weight %		8.7		8.7	32	gallons	9.1	100.00%		100425	19118.9112
	Xylene	1330-20-7				2.00	weight %		5.8		5.8	32	gallons	9.1	100.00%		100447	0
Imron 3.5 HG (Black), (RC)	Ethyl benzene	100-41-4	N/A	9	gallons	0.50	weight %	8.54	0.4	100.00%	0.4	9	gallons	8.54	100.00%		101144	0
	Glycol ethers	-17-1				5.00	weight %		3.8		3.8	9	gallons	8.54	100.00%		101688	29463.06
	Xylene	1330-20-7				2.00	weight %		1.5		1.5	9	gallons	8.54	100.00%		101779	0
Imron 3.5 HG Black	Ethyl benzene	100-41-4	N/A	258	gallons	0.50	weight %	8.34	10.8	100.00%	10.8	258	gallons	8.34	100.00%		106423	0
	Glycol ethers	-17-1				2.00	weight %		43.0		43.0	258	gallons	8.34	100.00%		106445	0
	Toluene	108-88-3				1.00	weight %		21.5		21.5	258	gallons	8.34	100.00%		106467	0
	Xylene	1330-20-7				3.00	weight %		64.6		64.6	258	gallons	8.34	100.00%		106503	0
Imron 3.5 HG Blue, (RC)	Ethyl benzene	100-41-4	N/A	1	gallons	0.40	weight %	9.00	0.0	100.00%	0.036	1	gallons	9	100.00%		106514	0
	Glycol ethers	-17-1				1.00	weight %		0.1		0.090	1	gallons	9	100.00%		106887	0
	Toluene	108-88-3				2.00	weight %		0.2		0.2	1	gallons	9	100.00%		106898	0
	Xylene	1330-20-7				2.00	weight %		0.2		0.2	1	gallons	9	100.00%		106934	0
Imron 333M-42P3301, V-Top	Ethyl benzene	100-41-4	N/A	55	gallons	0.50	weight %	8.74	2.4	100.00%	2.4	55	gallons	8.74	100.00%		106990	0
	Glycol ethers	-17-1				2.00	weight %		9.6		9.6	55	gallons	8.74	100.00%		107028	0
	Xylene	1330-20-7				2.50	weight %		12.0		12.0	55	gallons	8.74	100.00%		107051	0
Imron 333M-42P3302, V-Top	Ethyl benzene	100-41-4	N/A	5	gallons	0.35	weight %	8.61	0.2	100.00%	0.2	5	gallons	8.61	100.00%		107062	0
	Glycol ethers	-17-1				1.00	weight %		0.4		0.4	5	gallons	8.61	100.00%		107131	0
	Toluene	108-88-3				1.00	weight %		0.4		0.4	5	gallons	8.61	100.00%		107211	131275.3672
	Xylene	1330-20-7				1.50	weight %		0.6		0.6	5	gallons	8.61	100.00%		107302	0
Imron 5000 Reducer (RC)	Glycol ethers	-17-1	N/A	11	gallons	40.00	weight %	7.55	33.2	100.00%	33.2	11	gallons	7.55	100.00%		108054	0
Imron Activator EZ-3461S	Glycol ethers	-17-1	N/A	22	gallons	4.00	weight %	9.09	8.0	100.00%	8.0	22	gallons	9.09	100.00%		108101	342.835154
Low Gloss Clear	Ethyl benzene	100-41-4	N/A	986	gallons	0.17	weight %	8.54	14.3	100.00%	14.3	986	gallons	8.5406	100.00%		108316	0
	Methyl methacrylate	80-62-6				2.00	weight %		168.4		168.4	986	gallons	8.5406	100.00%		108383	0
	Toluene	108-88-3				4.00	weight %		336.8		336.8	986	gallons	8.5406	100.00%		108394	0
Nitro-Stan Spot and Glazing	Toluene	108-88-3	N/A	1	gallons	5.00	weight %	13.00	0.7	100.00%	0.7	1	gallons	13	100.00%		108883	10979.76353
	Xylene	1330-20-7				5.00	weight %		0.7		0.7	1	gallons	13	100.00%		108907	0
Premi-Glas (SMC, use express	Styrene	100-42-5	N/A	23,883	gallons	10.50	weight %	7.56	18,955.8	100.00%	18,955.8	23883	gallons	7.559	100.00%		108952	0
Prep-Sol	Cumene	98-82-8	N/A	12	gallons	0.20	weight %	6.51	0.2	100.00%	0.2	12	gallons	6.51	100.00%		110543	1277.8815
	Ethyl benzene	100-41-4				0.20	weight %		0.2		0.2	12	gallons	6.51	100.00%		111422	0
Primer C, (RC)	Toluene	108-88-3	N/A	93	gallons	40.00	weight %	6.83	254.1	100.00%	254.1	93	gallons	6.8306	100.00%		111444	0
Retarder	Ethyl benzene	100-41-4	N/A	2	gallons	0.30	weight %	7.85	0.0	100.00%	0.047	2	gallons	7.85	100.00%		114261	0
	Glycol ethers	-17-1				98.00	weight %		15.4		15.4	2	gallons	7.85	100.00%		117817	0
	Xylene	1330-20-7				1.00	weight %		0.2		0.2	2	gallons	7.85	100.00%		118741	0
Scotchal Brand Edge Sealer 3	Ethyl benzene	100-41-4	N/A	1	gallons	10.00	weight %	8.08	0.8	100.00%	0.8	1	gallons	8.08	100.00%		119904	0
	Toluene	108-88-3				0.55	weight %		0.0		0.044	1	gallons	8.08	100.00%		119937	0
	Xylene	1330-20-7				45.00	weight %		3.6		3.6	1	gallons	8.08	100.00%		120809	0
Spectramaster Green, DIC Im	Ethyl benzene	100-41-4	N/A	1	gallons	0.50	weight %	8.98	0.0	100.00%	0.045	1	gallons	8.98	100.00%		120821	0
	Glycol ethers	-17-1				1.00	weight %		0.1		0.090	1	gallons	8.98	100.00%		121142	0
	Xylene	1330-20-7				2.00	weight %		0.2		0.2	1	gallons	8.98	100.00%		121448	0
Sprayon All-Purpose Silicone	n-Hexane	110-54-3	N/A	89	gallons	45.00	weight %	5.95	238.3	100.00%	238.3	89	gallons	5.95	100.00%		121697	0
Strippable White Vinyl Coatin	Toluene	108-88-3	N/A	318	gallons	36.70	weight %	7.82	912.6	100.00%	912.6	318	gallons	7.82	100.00%		122667	0
Thinner for Corlar Epoxy Coat	Cumene	98-82-8	N/A	21	gallons	1.60	weight %	7.25	2.4	100.00%	2.4	21	gallons	7.25	100.00%		123319	0
	Xylene	1330-20-7				2.00	weight %		3.0		3.0	21	gallons	7.25	100.00%		123386	0
Thinner, (RC)	Ethyl benzene	100-41-4	N/A	41	gallons	16.00	weight %	7.20	47.2	100.00%	47.2	41	gallons	7.2	100.00%		123911	0
	Toluene	108-88-3				0.50	weight %		1.5		1.5	41	gallons	7.2	100.00%		126998	0
	Xylene	1330-20-7				81.50	weight %		240.6		240.6	41	gallons	7.2	100.00%		127184	23.53225
Topcoat-Sovlentborne (Imro	Ethyl benzene	100-41-4	N/A	3	gallons	0.10	weight %	10.99	0.0	100.00%	0.033	3	gallons	10.99	100.00%		131113	0
	Glycol ethers	-17-1				9.00	weight %		3.0		3.0	3	gallons	10.99	100.00%		132649	0
Tyrite 7501A Urethane Adhes	MDI	101-68-8	N/A	11,440	gallons	20.00	weight %	12.12	27,730.6	100.00%	27,730.6	11440	gallons	12.12	100.00%		133062	0
Tyrite 7547A Urethane Adhes	MDI	101-68-8	N/A	550	gallons	25.00	weight %	12.60	1,732.5	100.00%	1,732.5	550	gallons	12.6	100.00%		133904	0
Unleaded Gasoline (emission	Benzene	71-43-2	N/A	7,168	gallons	2.50	weight %	6.25	1,120.0	100.00%	1,120.0	7168	gallons	6.25	100.00%		140885	0
	Toluene	108-88-3				5.00	weight %		2,240.0		2,240.0	7168	gallons	6.25	100.00%		151564	0
USP 1K HD Hardwoods (Base	Ethyl benzene	100-41-4	N/A	10	gallons	1.88	weight %	9.52	1.8	100.00%	1.8	10	gallons	9.5197	100.00%		156627	0
	Glycol ethers	-17-1				4.00	weight %		3.8		3.8	10	gallons	9.5197	100.00%		302012	0
	Toluene	108-88-3				20.00	weight %		19.0		19.0	10	gallons	9.5197	100.00%		334883	0
	Xylene	1330-20-7				8.00	weight %		7.6		7.6	10	gallons	9.5197	100.00%		463581	0
USP 25Y Pearl Stardust White	Ethyl benzene	100-41-4	N/A	327	gallons	0.37	weight %	10.49	12.7	100.00%	12.7	327	gallons	10.4866	100.00%		510156	0
	Methyl methacrylate	80-62-6				1.00	weight %		34.3		34.3	327	gallons	10.4866	100.00%		532274	0
	Toluene	108-88-3				1.00	weight %		34.3		34.3	327	gallons	10.4866	100.00%		534521	0
	Xylene	1330-20-7				1.00	weight %		34.3		34.3	327	gallons	10.4866	100.00%		540841	0
USP 25Y Pearl Stardust White	Ethyl benzene	100-41-4	N/A	532	gallons	0.24	weight %	7.95	10.2	100.00%	10.2	532	gallons	7.9516	100.00%		542756	0
	Styrene	100-42-5				0.34	weight %		14.4		14.4	532	gallons	7.9516	100.00%		542881	0
USP Candy Lime Green	Ethyl benzene	100-41-4	N/A	1,225	gallons	0.29	weight %	8.43	29.9	100.00%	29.9	1225	gallons	8.4267	100.00%		584849	0
	Toluene	108-88-3				0.44	weight %		45.4		45.4	1225	gallons	8.4267	100.00%		593602	0
USP Candy Persimmon Red	Toluene	108-88-3	N/A	5	gallons	0.22	weight %	8.09	0.1	100.00%	0.089	5	gallons	8.085	100.00%		624839	0
USP Candy Thunder Blue Mo	Ethyl benzene	100-41-4	N/A	205	gallons	0.14	weight %	7.81	2.2	100.00%	2.2	205	gallons	7.8113	100.00%		680319	0
	Toluene	108-88-3				1.00	weight %		16.0		16.0	205	gallons	7.8113	100.00%		684935	0
USP Canyon Silver Metallic	Ethyl benzene	100-41-4	N/A	5	gallons	0.21	weight %	8.10	0.1	100.00%	0.085	5	gallons	8.1003	100.00%		822060	44.400796
	Toluene	108-88-3				4.00	weight %		1.6		1.6	5	gallons	8.1003	100.00%		1120714	0
USP Cosmic Pearl Gray H/S B/	Ethyl benzene	100-41-4	N/A	5	gallons	0.18	weight %	8.28	0.1	100.00%	0.074	5	gallons	8.2761	100.00%		1319773	0
	Methyl methacrylate	80-62-6				1.00	weight %		0.4		0.4	5	gallons	8.2761	100.00%		1330207	11546.13311
	Toluene	108-88-3				1.00	weight %		0.4		0.4	5	gallons	8.2761	100.00%		1332214	0
USP DTP Fine Silver	Ethyl benzene	100-41-4	N/A	245	gallons	1.30	weight %	7.53	24.0	100.00%	24.0	245	gallons	7.5312	100.00%		1336363	0
	Glycol ethers	-17-1				1.00	weight %		18.5		18.5	245	gallons	7.5312	100.00%		1582098	0
	Toluene	108-88-3				9.00	weight %		166.1		166.1	245	gallons	7.5312	100.00%		1634044	0
	Xylene	1330-20-7				5.00	weight %		92.3		92.3	245	gallons	7.5312	100.00%		1746016	0
USP DTP Flame Gray	Ethyl benzene	100-41-4	N/A	106	gallons	0.60	weight %	7.44	4.7	100.00%	4.7	106	gallons	7.4375	100.00%		3547044	0
	Glycol ethers	-17-1				2.00	weight %		15.8		15.8	106	gallons	7.4375	100.00%		7439921	0
	Toluene	108-88-3				10.00	weight %		78.8		78.8	106	gallons	7.4375	100.00%		7439965	0
USP DTP Lime Green	Ethyl benzene	100-41-4	N/A	272	gallons	0.15	weight %	7.68	3.1	100.00%	3.1	272	gallons	7.6782	100.00%		7439976	0
	Glycol ethers	-17-1				1.00	weight %		20.9		20.9	272	gallons	7.6782	100.00%		7440020	0
	Toluene	108-88-3				8.00	weight %		167.1		167.1	272	gallons	7.6782	100.00%		7440360	0
USP DTP Meteor Blue (MSDS	Ethyl benzene	100-41-4	N/A	114	gallons	0.15	weight %	7.76	1.3	100.00%	1.3	114	gallons	7.7587	100.00%		7440382	0
	Toluene	108-88-3				17.00	weight %		150.4		150.4	114	gallons	7.7587	100.00%		7440417	0
USP Ebony Black	Toluene	108-88-3	N/A	2,865	gallons	2.00	weight %	8.28	474.4	100.00%	474.4	2865	gallons	8.2789	100.00%		7440439	0
USP Firecracker Red Topcoat	Ethyl benzene	100-41-4	N/A	45	gallons	0.14	weight %	8.31	0.5	100.00%	0.5	45	gallons	8.3085	100.00%		7440473	0
	Styrene	100-42-5				0.29	weight %		1.1		1.1	45	gallons	8.3085	100.00%		7440484	0
USP Flat Black Urethane Topc	Ethyl benzene	100-41-4	N/A	239	gallons	0.12	weight %	8.39	2.4	100.00%	2.4	239	gallons	8.3948	100.00%		7550450	0
	Glycol ethers	-17-1				9.00	weight %		180.6		180.6	239	gallons	8.3948	100.00%		7647010	0
	Methyl methacrylate	80-62-6				1.00	weight %		20.1		20.1	239	gallons	8.3948	100.00%		7664393	0
	Toluene	108-88-3				6.00	weight %		120.4		120.4	239	gallons	8.3948	100.00%		7723140	0
USP Galaxy Silver	Ethyl benzene	100-41-4	N/A	274	gallons	0.40	weight %	8.25	9.0	100.00%	9.0	274	gallons	8.2476	100.00%		7782492	0
	Toluene	108-88-3				1.00	weight %		22.6		22.6	274	gallons	8.2476	100.00%		7782505	0
USP Hi-Heat Black Touch-Up	Ethyl benzene	100-41-4	N/A	9	gallons	2.08	weight %	10.06	1.9	100.00%	1.9	9	gallons	10.0579	100.00%		7803512	0
	Glycol ethers	-17-1				3.00	weight %		2.7		2.7	9	gallons	10.0579	100.00%		8001352	0
	Toluene	108-88-3				14.00	weight %		12.7		12.7	9	gallons	10.0579	100.00%			
	Xylene	1330-20-7				8.00	weight %		7.2		7.2	9	gallons	10.0579	100.00%			
USP Jet Ski White	Ethyl benzene	100-41-4	N/A	1,081	gallons	0.48	weight %	11.67	60.5	100.00%	60.5	1081	gallons	11.6663	100.00%			
USP Jet Ski White Basecoat	Ethyl benzene	100-41-4	N/A	159	gallons	0.36	weight %	11.95	6.8	100.00%	6.8	159	gallons	11.9463	100.00%			
	Toluene	108-88-3				1.00	weight %		19.0		19.0	159	gallons	11.9463	100.00%			
	Xylene	1330-20-7				1.00	weight %		19.0		19.0	159	gallons	11.9463	100.00%			
USP KMM Metallic Tungsten	Ethyl benzene	100-41-4	N/A	1,132	gallons	0.03	weight %	8.32	2.8	100.00%	2.8	1132	gallons	8.323	100.00%			
	Toluene	108-88-3				3.00	weight %		282.6		282.6	1132	gallons	8.323	100.00%			
USP Light Gray Primer/Surfac	Ethyl benzene	100-41-4	N/A	2,405	gallons	0.85	weight %	12.55	256.5	100.00%	256.5	2405	gallons	12.5488	100.00%			
	Xylene	1330-20-7				3.00	weight %		905.4		905.4	2405	gallons	12.5488	100.00%			
USP Lime Green #777	Ethyl benzene	100-41-4	N/A	588	gallons	0.58	weight %	10.03	34.2	100.00%	34.2	588	gallons	10.0306	100.00%			
	Toluene	108-88-3				2.00	weight %		118.0		118.0	588	gallons	10.0306	100.00%			
	Xylene	1330-20-7				2.00	weight %		118.0		118.0	588	gallons	10.0306	100.00%			
USP Luminous Vintage Red	Ethyl benzene	100-41-4	N/A	778	gallons	0.73	weight %	7.83	44.5	100.00%	44.5	778	gallons	7.8304	100.00%			
	Xylene	1330-20-7				2.00	weight %		121.8		121.8	778	gallons	7.8304	100.00%			
USP Max-1 Brown Basecoat	Ethyl benzene	100-41-4	N/A	5	gallons	1.88	weight %	9.60	0.9	100.00%	0.9	5	gallons	9.5965	100.00%			
	Glycol ethers	-17-1				2.00	weight %		1.0		1.0	5	gallons	9.5965	100.00%			

	Toluene	108-88-3				20.00	weight %		9.6		9.6	5	gallons	9.5965	100.00%
	Xylene	1330-20-7				8.00	weight %		3.8		3.8	5	gallons	9.5965	100.00%
USP Metallic Dark Brown	Ethyl benzene	100-41-4	N/A	35	gallons	2.91	weight %	8.70	8.9	100.00%	8.9	35	gallons	8.7036	100.00%
	Formaldehyde	50-00-0				0.04	weight %		0.1		0.1	35	gallons	8.7036	100.00%
	Xylene	1330-20-7				11.00	weight %		33.5		33.5	35	gallons	8.7036	100.00%
USP Metallic Graystone	Ethyl benzene	100-41-4	N/A	5	gallons	0.13	weight %	8.12	0.1	100.00%	0.053	5	gallons	8.1166	100.00%
	Toluene	108-88-3				1.00	weight %		0.4		0.4	5	gallons	8.1166	100.00%
USP Metallic Nocturne Blue	Ethyl benzene	100-41-4	N/A	132	gallons	0.36	weight %	8.11	3.9	100.00%	3.9	132	gallons	8.105	100.00%
	Toluene	108-88-3				4.00	weight %		42.8		42.8	132	gallons	8.105	100.00%
	Xylene	1330-20-7				1.00	weight %		10.7		10.7	132	gallons	8.105	100.00%
USP Metallic Phantom Silver	Toluene	108-88-3	N/A	242	gallons	1.00	weight %	8.29	20.1	100.00%	20.1	242	gallons	8.2946	100.00%
USP Metallic Sonic Blue	Ethyl benzene	100-41-4	N/A	315	gallons	0.27	weight %	8.12	6.9	100.00%	6.9	315	gallons	8.12	100.00%
	Glycol ethers	-17-1				1.00	weight %		25.6		25.6	315	gallons	8.12	100.00%
USP Metallic Surf Blue	Ethyl benzene	100-41-4	N/A	349	gallons	0.05	weight %	8.25	1.4	100.00%	1.4	349	gallons	8.2466	100.00%
	Toluene	108-88-3				0.48	weight %		13.8		13.8	349	gallons	8.2466	100.00%
USP Metallic Titanium	Ethyl benzene	100-41-4	N/A	872	gallons	0.04	weight %	8.37	2.9	100.00%	2.9	872	gallons	8.3698	100.00%
	Toluene	108-88-3				1.00	weight %		73.0		73.0	872	gallons	8.3698	100.00%
USP Overcoat Clear L/F	Ethyl benzene	100-41-4	N/A	4,736	gallons	0.23	weight %	7.98	86.9	100.00%	86.9	4736	gallons	7.98	100.00%
	Styrene	100-42-5				0.39	weight %		147.4		147.4	4736	gallons	7.98	100.00%
USP Pearl Mystic Black	Ethyl benzene	100-41-4	N/A	5	gallons	0.36	weight %	7.89	0.1	100.00%	0.1	5	gallons	7.8894	100.00%
	Toluene	108-88-3				1.00	weight %		0.4		0.4	5	gallons	7.8894	100.00%
USP Pearl Yellow Clear	Ethyl benzene	100-41-4	N/A	5	gallons	0.23	weight %	7.98	0.1	100.00%	0.092	5	gallons	7.9833	100.00%
	Styrene	100-42-5				0.39	weight %		0.2		0.2	5	gallons	7.9833	100.00%
USP PWC Clear	Methyl methacrylate	80-62-6	N/A	2,686	gallons	2.00	weight %	8.12	436.2	100.00%	436.2	2686	gallons	8.1191	100.00%
	Naphthalene	91-20-3				2.85	weight %		621.5		621.5	2686	gallons	8.1191	100.00%
	Toluene	108-88-3				3.00	weight %		654.2		654.2	2686	gallons	8.1191	100.00%
USP Ruby Red Metallic	Ethyl benzene	100-41-4	N/A	5	gallons	0.83	weight %	8.47	0.4	100.00%	0.4	5	gallons	8.4708	100.00%
	Toluene	108-88-3				0.47	weight %		0.2		0.2	5	gallons	8.4708	100.00%
	Xylene	1330-20-7				3.00	weight %		1.3		1.3	5	gallons	8.4708	100.00%
USP Stoic Black	Ethyl benzene	100-41-4	N/A	357	gallons	0.11	weight %	9.43	3.7	100.00%	3.7	357	gallons	9.4264	100.00%
	Toluene	108-88-3				0.19	weight %		6.4		6.4	357	gallons	9.4264	100.00%
USP Sunbeam Red Basecoat	Toluene	108-88-3	N/A	135	gallons	3.00	weight %	8.44	34.2	100.00%	34.2	135	gallons	8.4405	100.00%
USP Sunbeam Red Basecoat	Toluene	108-88-3	N/A	497	gallons	3.00	weight %	8.22	122.6	100.00%	122.6	497	gallons	8.2219	100.00%
USP Sunbeam Red Basecoat	Ethyl benzene	100-41-4	N/A	40	gallons	4.20	weight %	8.72	14.7	100.00%	14.7	40	gallons	8.7219	100.00%
	Xylene	1330-20-7				1.00	weight %		3.5		3.5	40	gallons	8.7219	100.00%
USP Sunbeam Red Monocoat	Ethyl benzene	100-41-4	N/A	5	gallons	2.30	weight %	8.55	1.0	100.00%	1.0	5	gallons	8.5488	100.00%
	Styrene	100-42-5				0.18	weight %		0.1		0.077	5	gallons	8.5488	100.00%
USP UTV Inset Brown Baseco	Ethyl benzene	100-41-4	N/A	1	gallons	0.11	weight %	10.04	0.0	100.00%	0.011	1	gallons	10.0363	100.00%
USP Waterbased White Robc	Formaldehyde	50-00-0	N/A	5	gallons	0.50	weight %	9.83	0.2	100.00%	0.2	5	gallons	9.83	100.00%
	Glycol ethers	-17-1				6.00	weight %		2.9		2.9	5	gallons	9.83	100.00%
Xylene	Ethyl benzene	100-41-4	N/A	165	gallons	20.00	weight %	7.24	238.9	100.00%	238.9	165	gallons	7.24	100.00%
	Xylene	1330-20-7				80.00	weight %		955.7		955.7	165	gallons	7.24	100.00%
												0		0	0.00%
												0		0	0.00%
												0		0	0.00%
												0		0	0.00%
												0		0	0.00%
												0		0	0.00%
												0		0	0.00%
												0		0	0.00%
												0		0	0.00%

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

Table 5-D does not require any user inputs. This table serves to compare your facility's maximum potential to emit (MPTE) to the operating permit thresholds established in the LLCAPCPRS.

If you meet or exceed any of the Class I permit thresholds your source will be required to obtain a Class I operating permit, unless you accept enforceable requirements in your operating permit to

If you meet or exceed any of the Class II permit thresholds your source will be required to obtain a Class II operating permit. If you do not meet or exceed the Class II permit thresholds, your source

If you require either a Class I or Class II operating permit, complete and submit the remainder of this application. Remember that if your facility-wide MPTE exceeds Class I permit thresholds, but

End of Instructions. Once application is completed, print the table below.

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}	95.96	15.0	Yes	100.0	No
$PM_{2.5}$	90.09				
NOx	206.55	40.0	Yes	100.0	Yes
SOx	14.29	40.0	No	100.0	No
VOC	249.00	40.0	Yes	100.0	Yes
CO	101.83	50.0	Yes	100.0	Yes
Lead	0.00	0.6	No	5.0	No
GHGs	178,637.34				

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	65.64	2.5	Yes	10.0	Yes
Total Combined HAP	121.35	10.0	Yes	25.0	Yes

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SECTION 6: DETERMINATION OF SOURCE CLASS

Part A: Operating Permit Class											
The maximum potential emissions from your facility meet or exceed Class I permitting thresholds. The											
Do you wish to take enforceable permit requirements to limit emissions to levels that	Yes	No									
Do you wish to take enforceable permit requirements to limit HAP emissions to levels	☐ Yes	☑ No									
Your facility will be classified as a Class I (Title V) source of criteria pollutants, and as a 'Major Source'	☐	☑									
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									
	☐	☐									

Class I	Class II	N.P.R.		HAP MAJOR	HAP AREA
TRUE	TRUE	FALSE		TRUE	FALSE
FALSE	TRUE		TRUE		
FALSE	TRUE		TRUE		
TRUE	<< TRUE if Part A is complete.				
FALSE	FALSE		FALSE		
FALSE	FALSE		FALSE		
TRUE	<< TRUE if Part B is complete.				
FALSE	FALSE		FALSE		
FALSE	FALSE		FALSE		
TRUE	<< TRUE if Part C is complete.				

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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					
You may agree to control requirements in order to reduce actual emissions of pollutants to the					
Do you agree to accept control requirements to reduce actual pollutant emissions?	Yes	No	FALSE	TRUE	TRUE
Sources may also agree to throughput limits in their permit to prevent the possibility of exceeding					
Do you agree to accept throughput limits to prevent possible exceedances of permit	Yes	No	FALSE	TRUE	TRUE
If you do not wish to take limits to reduce emissions, and you did not agree to accept any limits or control requirements in Parts B or C, then skip Table 6-A and proceed to Section 7					

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

As seen in the example table below, the emission unit numbers and SCC codes entered on Table 3-A have been automatically imported into Table 6-A. In addition, the calculated maximum annual throughput rates and throughput units from Table 5-A have been imported as well.

1. In Column C, indicate whether you will agree to a throughput limit for the emission unit in that row. When you click on the cells under Column C, a drop-down box will give you two options,
2. In Columns D and F, the maximum annual throughput calculated in Table 5-A, as well as the throughput units, have been imported so that you can easily compare the maximum throughput to a throughput limit, should you choose to accept one.
3. If you agree to accept a throughput limit for the emission unit on that row, the corresponding cell in Column E will be highlighted in yellow to indicate a required entry. If you do not agree
4. In Column G, which will be highlighted in yellow, indicate whether you will agree to apply emission controls to the emission unit in that row. When you click on the cells under Column G, a
5. If you answered "Yes" in Column G, then the corresponding cell in Column H will be highlighted in yellow. Here you must identify the control device/method associated with that emission
6. Once you've entered the control device/method, the corresponding cell in Column I will be highlighted in yellow. When you click on the cells under Column G, a drop-down box will give
7. If you do select "Other" for a control device/method, you must contact the Department. Department personnel will work with you to apply the appropriate control efficiencies for your
8. When you have completed Table 6-A, proceed to Section 7. Data that you enter in Table 6-A will be used to calculate your facility's actual potential to emit (potential emissions with control

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	1-02-006-02	No	426.61		MMcf/yr	No			
1-2	1-02-005-01	Yes	3,158	500	Mgal/yr	No			
2-1	1-02-006-02	No	639.48		MMcf/yr	No			
2-2	1-02-005-01	Yes	4,737	700	Mgal/yr	No			
3-1	229-40-000-00	No	1,500		VMT/yr	Yes	Calcium Chloride	Chemical Stabilizer (Roads)	
3-2	229-60-000-00	No	1,000		VMT/yr	Yes	Road Sweeper	2x/Week Sweeping (Roads)	
4-1	4-01-003-06	Yes	5,000	200	gals/yr	Yes	RTO 1	Thermal Oxidizer	

Limit?	Controls?	Control Device
Yes	Yes	Fabric Filter
No	No	Cyclone
		Fabric Filter + Cyclone
		Process Partial Enclosed
		Process Fully Enclosed
		Water Spray (Dust)
		Oil Spray (Grain Dust)

This spreadsheet allows for up to 300 rows of emission unit #'s. When printing, be sure to specify printing only of pages that contain emission units.

End of Instructions. Complete the table below.

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
001-01	3-09-001-98	No	169,078		CP units/yr	No			
002-01	3-09-002-08	No	1.00E+06		pounds/yr	No			
002-02	3-09-005-00	No	169,078		CP units/yr	No			
002-03	3-09-999-93	No	169,078		CP units/yr	No			
003-01	3-09-001-98	No	169,078		CP units/yr	No			
003-02	3-09-005-00	No	169,078		CP units/yr	No			
003-03	3-09-999-93	No	169,078		CP units/yr	No			
004-01	3-09-001-98	No	169,078		CP units/yr	No			
004-02	3-09-005-00	No	169,078		CP units/yr	No			
004-03	3-09-999-93	No	169,078		CP units/yr	No			
005-01	4-20-225-02	No	169,078		CP units/yr	No			
005-02	4-02-035-32	No	169,078		CP units/yr	No			
006-01	4-02-025-02	No	169,078		CP units/yr	No			
006-02	4-02-025-32	No	169,078		CP units/yr	No			
007-01	4-02-025-02	No	169,078		CP units/yr	No			
007-02	4-02-025-32	No	169,078		CP units/yr	No			
008-01	4-02-025-02	No	169,078		CP units/yr	No			
009-01	4-02-025-33	No	169,078		CP units/yr	No			
010-01	4-02-999-98	No	169,078		CP units/yr	No			
011-01	4-02-999-98	No	169,078		CP units/yr	No			
012-01	3-09-999-93	No	169,078		CP units/yr	No			
013-01	3-09-999-93	No	169,078		CP units/yr	No			
014-01	3-09-999-93	No	169,078		CP units/yr	No			
015-01	3-08-007-99	No	169,078		CP units/yr	No			
015-02	3-08-007-04	No	169,078		CP units/yr	No			
015-03	3-08-007-99	No	169,078		CP units/yr	No			
015-04	4-02-022-01	No	169,078		CP units/yr	No			
015-05	3-08-008-02	No	169,078		CP units/yr	No			
015-06	3-09-999-93	No	169,078		CP units/yr	No			
017-01	1-02-006-03	No	121.80		MMcf/yr	No			
017-02	1-02-010-02	No	1,368		Mgal/yr	No			
017-03	2-02-002-03	No	145.72		MMcf/yr	No			
017-04	4-02-010-01	No	555.39		MMcf/yr	No			
017-05	4-02-010-04	No	6,240		Mgal/yr	No			
017-06	1-05-001-06	No	1,669		MMcf/yr	No			
017-07	1-05-001-10	No	18,751		Mgal/yr	No			
018-01	---	No	26.42		MMcf/yr	No			
018-02	---	No	297.00		Mgal/yr	No			
019-01	---	No	169,078		CP units/yr	No			
020-01	3-09-005-00	No	310.00		RC units/yr	No			
020-02	3-09-999-93	No	310.00		RC units/yr	No			
021-01	3-09-999-93	No	310.00		RC units/yr	No			
022-01	---	No	310.00		RC units/yr	No			
023-01	---	No	310.00		RC units/yr	No			
023-02	3-09-999-93	No	310.00		RC units/yr	No			
024-01	3-09-001-98	No	310.00		RC units/yr	No			
024-02	3-09-999-93	No	310.00		RC units/yr	No			
025-01	2-02-001-02	No	6.10		Mgal/yr	No			
025-02	2-02-001-02	No	8.00		Mgal/yr	No			

Limit?	Controls?	Control Device
Yes	Yes	Fabric Filter
No	No	Cyclone
		Fabric Filter + Cyclone
		Process Partial Enclosed
		Process Fully Enclosed
		Water Spray (Dust)
		Oil Spray (Grain Dust)
		2x/Week Sweeping (Roads)
		Chemical Stabilizer (Roads)
		HEPA Filter
		Thermal Oxidizer
		Flare
		Steam or Water Injection
		Other

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Instructions for Section 7 - Table 7-A: Facility-Wide APTE - Regulated Air Pollutant Emissions

Unless you elected to apply a control device categorized as "Other" in Table 6-A, you do not need to enter any information into this table. Your facility's 'Actual Potential to Emit' (APTE), or the facility's potential to emit after applying control devices/methods and throughput limits has been calculated automatically. Please review the information presented in Table 7-A for accuracy. If you find errors or inconsistent data, please contact the Department for assistance.

If you did elect to apply a control device categorized as "Other" in Table 6-A, contact the Department and staff will assist you in applying the

This spreadsheet allows for up to 300 rows of emission unit #'s. When printing, be sure to specify printing only of

End of Instructions. Complete the table below.

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.

Emission Unit #	SCC Code	Annual Throughput	Throughput Units	PM_{10}	$PM_{2.5}$	NOx	SOx	VOC	CO	GHGs (see note)	LEAD	Total HAP
001-01	3-09-001-98	169,078	CP units/yr	118,193	118,193	-	-		-	-	-	217,138
002-01	3-09-002-08	1.00E+06	pounds/yr	13,044	1,304	-	-		-	1.00E+06	-	-
002-02	3-09-005-00	169,078	CP units/yr	8,116	8,116	-	-		-	-	-	4,988
002-03	3-09-999-93	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
003-01	3-09-001-98	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
003-02	3-09-005-00	169,078	CP units/yr	8,116	8,116	-	-		-	-	-	4,988
003-03	3-09-999-93	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
004-01	3-09-001-98	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
004-02	3-09-005-00	169,078	CP units/yr	8,116	8,116	-	-		-	-	-	4,988
004-03	3-09-999-93	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
005-01	4-20-225-02	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
005-02	4-02-035-32	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
006-01	4-02-025-02	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
006-02	4-02-025-32	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
007-01	4-02-025-02	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
007-02	4-02-025-32	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
008-01	4-02-025-02	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
009-01	4-02-025-33	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
010-01	4-02-999-98	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
011-01	4-02-999-98	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
012-01	3-09-999-93	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
013-01	3-09-999-93	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
014-01	3-09-999-93	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
015-01	3-08-007-99	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
015-02	3-08-007-04	169,078	CP units/yr	0.00	0.00	-	-	498,000	-	-	-	0.00
015-03	3-08-007-99	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
015-04	4-02-022-01	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
015-05	3-08-008-02	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
015-06	3-09-999-93	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
017-01	1-02-006-03	121.80	MMcf/yr	925.68	925.68	-	-		10,231	-	0.06	-
017-02	1-02-010-02	1,368	Mgal/yr	-	-	25,992	150.48		-	1.71E+07	-	273.60
017-03	2-02-002-03	145.72	MMcf/yr	1,078	1,078	10,623	335.16		2,084	1.76E+07	0.07	275.00
017-04	4-02-010-01	555.39	MMcf/yr	4,221	4,221	-	-		46,653	-	0.28	-
017-05	4-02-010-04	6,240	Mgal/yr	-	-	118,560	686.40		-	7.80E+07	-	1,248

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017-06	1-05-001-06	1,669	MMcf/yr	-	-	-	-		-	-	0.83	-
017-07	1-05-001-10	18,751	Mgal/yr	21,189	21,189	243,763	26,814		140,633	2.40E+08	-	3,750
018-01	---	26.42	MMcf/yr	200.79	200.79	-	-		2,219	-	0.01	-
018-02	---	297.00	Mgal/yr	-	-	5,643	32.67		-	3.71E+06	-	59.40
019-01	---	169,078	CP units/yr	0.00	0.00	-	-		-	-	-	0.00
020-01	3-09-005-00	310.00	RC units/yr	8,116	8,116	-	-		-	-	-	4,988
020-02	3-09-999-93	310.00	RC units/yr	0.00	0.00	-	-		-	-	-	0.00
021-01	3-09-999-93	310.00	RC units/yr	0.00	0.00	-	-		-	-	-	0.00
022-01	---	310.00	RC units/yr	0.00	0.00	-	-		-	-	-	0.00
023-01	---	310.00	RC units/yr	0.00	0.00	-	-		-	-	-	0.00
023-02	3-09-999-93	310.00	RC units/yr	0.00	0.00	-	-		-	-	-	0.00
024-01	3-09-001-98	310.00	RC units/yr	0.00	0.00	-	-		-	-	-	0.00
024-02	3-09-999-93	310.00	RC units/yr	0.00	0.00	-	-		-	-	-	0.00
025-01	2-02-001-02	6.10	Mgal/yr	259.25	259.25	3,684	242.17		793.00	137,860	3.36	3.36
025-02	2-02-001-02	8.00	Mgal/yr	340.00	340.00	4,832	317.60	-	1,040	180,800	4.40	4.40

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Instructions for Section 7 - Table 7-B: Facility-Wide APTE - VOC Emissions from VOC-Containing Materials

As seen in the example table below, the material name, manufacturer, purpose, and maximum annual throughput entered on Table 5-B have been automatically imported into Table 7-B. In addition, the associated release factors have been imported as well. Proceed with completing Table 7-B as follows:

1. In Column E, indicate whether you will agree to a throughput limit for the material in that row. When you click on the cells under Column E, a drop-down box will give you two options,
2. If you select "No" in Column E, the associated cell in Column F will fill with a crosshatch pattern, and the cell should be left blank. If you select "Yes" in Column E, then you will be prompted to enter a throughput limit in Column F. Be sure to use the same throughput limit as you used in Table 6-A. A preliminary VOC total will calculate automatically.
3. In Column I, indicate whether you will agree to control emissions from the material listed in that row. When you click on the cells under Column I, a drop-down box will give you two
4. If you select "No" in Column I, the associated cell in Column J will fill with a crosshatch pattern, and the cell should be left blank. If you select "Yes" in Column I, then you will be prompted to
5. Once all required entries in each row are completed, a Total VOC Emission figure, which incorporates any throughput limits or control devices you elected to use, will be calculated in
6. Please review the information presented in Table 7-B for accuracy. If you find errors or inconsistent data, please contact the Department for assistance.

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)
Blaster 10000 - XYZ Solvent Co.: Solvent	1-1	1,000	No		1,625.0	100.00%	No		1,625.0
Triple Crown Adhesive - Trojan Ponies, Inc.: Adhesive	3-2, 5-1	5,000	Yes	200	600.0	100.00%	Yes	Thermal Oxidizer	30.0

This spreadsheet allows for entry of up to 160 materials. When printing, be sure to specify printing only of pages that contain material data.

End of Instructions. Complete the table below.

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)
1% T Solution (Accelerator) -- USP: Solvent	N/A	1	No		7.8	100.00%	No		7.8
3M Citrus Base Industrial Cleaner -- 3M: Solvent	N/A	84	No		519.1	100.00%	No		519.1
3M Finesse-It Compounding Material Ivory -- 3M: Solvent	N/A	1	No		3.0	100.00%	No		3.0
3M Finesse-It Finishing Material -- 3M: Solvent	N/A	205	No		502.9	100.00%	No		502.9
3M Scotch-Weld Neoprene High Perform. Adhesive -- 3M:	N/A	780	No		3,100.0	100.00%	No		3,100.0
Accelerator (RC) -- DP: Paint/Coat	N/A	38	No		304.0	100.00%	No		304.0
Activator 80 JW1 -- ASH: Solvent	N/A	3	No		22.1	100.00%	No		22.1
Activator IGJB-8T-2T -- NEX: Solvent	N/A	500	No		3,650.0	100.00%	No		3,650.0
Activator, VGM 6005, (RC) -- DP: Paint/Coat	N/A	100	No		90.0	100.00%	No		90.0
Adhesion Promoter -- USP: Paint/Coat	N/A	353	No		2,077.8	100.00%	No		2,077.8
Advance Anti-Freeze and Coolant (emission factor of 1%) --	N/A	15,260	No		137,660.5	100.00%	No		137,660.5
Aluminum Baking -- DV: Paint/Coat	N/A	13	No		63.3	100.00%	No		63.3
Aqualac 35 Series (water base paint, various colors) -- PC:	N/A	20	No		11.9	100.00%	No		11.9
Aviation Gasoline (emission factor of 1%) -- CP: Fuel	N/A	6,439	No		37,539.4	100.00%	No		37,539.4
Barsol A-2595 -- BS: Solvent	N/A	110	No		799.7	100.00%	No		799.7
Barsol A-2596 -- BS: Solvent	N/A	550	No		4,136.0	100.00%	No		4,136.0
Barsol A-2599 -- BS: Solvent	N/A	110	No		816.2	100.00%	No		816.2
Barsol A3560 -- BS: Solvent	N/A	330	No		2,391.5	100.00%	No		2,391.5
Barsol A4025 -- BS: Solvent	N/A	550	No		4,077.5	100.00%	No		4,077.5
Barsol A4131 (emission factor of 30%) -- BS: Solvent	N/A	19,494	No		134,779.6	100.00%	No		134,779.6
Barsol C643 -- BS: Solvent	N/A	5	No		47.1	100.00%	No		47.1

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Barsol D-100 -- BS: Solvent	N/A	385	No		2,791.3	100.00%	No		2,791.3
Barsol D-150 -- BS: Solvent	N/A	220	No		1,630.2	100.00%	No		1,630.2
Barsol DB -- BS: Solvent	N/A	55	No		436.7	100.00%	No		436.7
Barsol EB -- BS: Solvent	N/A	385	No		2,887.5	100.00%	No		2,887.5
Black Baking Enamel -- DV: Paint/Coat	N/A	1,853	No		8,690.6	100.00%	No		8,690.6
Cationic Vehicle -- PPG: E-Coat	N/A	16,200	No		1,419.1	100.00%	No		1,419.1
Clear Urethane (5/2010) -- USP: Paint/Coat	N/A	8	No		39.8	100.00%	No		39.8
Converter - Polyurethane -- USP: Paint/Coat	N/A	45	No		218.9	100.00%	No		218.9
Corlar 2.8 PR High Solids Epoxy Primer, (RC) -- DP: Paint/Coat	N/A	106	No		296.8	100.00%	No		296.8
Corlar Activator -- DP: Paint/Coat	N/A	109	No		250.7	100.00%	No		250.7
Corlar VF-525 Activator, (RC) -- DP: Paint/Coat	N/A	1	No		2.1	100.00%	No		2.1
DBE -- BS: Solvent	N/A	275	No		2,496.9	100.00%	No		2,496.9
Diesel Fuel (emission factor of 1%) -- CP: Fuel	N/A	6,827	No		48,335.2	100.00%	No		48,335.2
Dowanol PPH Glycol Ether -- BS: Solvent	N/A	165	No		1,457.0	100.00%	No		1,457.0
DTP AP Green -- USP: Paint/Coat	N/A	2,703	No		15,074.6	100.00%	No		15,074.6
Eastman EEP Solvent -- BS: Solvent	N/A	660	No		5,214.0	100.00%	No		5,214.0
Ebony Black Undercoat, 12/7/2005 -- USP: Paint/Coat	N/A	10	No		50.5	100.00%	No		50.5
Enamel and Lacquer Clean-Up Solvent -- DP: Solvent	N/A	1	No		6.5	100.00%	No		6.5
Ethyl Acetate -- BS: Solvent	N/A	1,375	No		10,326.3	100.00%	No		10,326.3
Fish Eye Eliminator -- USP: Paint/Coat	N/A	11	No		79.0	100.00%	No		79.0
Flat Black Baking Enamel -- USP: Paint/Coat	N/A	192	No		672.0	100.00%	No		672.0
Flow Agent -- USP: Solvent	N/A	26	No		177.7	100.00%	No		177.7
Grafaway Brown -- DP: Paint/Coat	N/A	3	No		9.0	100.00%	No		9.0
Grafaway Brown (aerosol) -- CPP: Paint/Coat	N/A	10	No		28.8	100.00%	No		28.8
Grafaway Frosty White (aerosol) -- CPP: Paint/Coat	N/A	2	No		5.8	100.00%	No		5.8
Grafaway Haze (aerosol) -- CPP: Paint/Coat	N/A	6	No		17.2	100.00%	No		17.2
Gray Paint, 3.5 HG, (LF42P3033), (RC) -- DP: Paint/Coat	N/A	6	No		22.8	100.00%	No		22.8
Gray Paint, 3.5 HG, (RC) -- DP: Paint/Coat	N/A	13	No		49.4	100.00%	No		49.4
Haze -- DP: Paint/Coat	N/A	2	No		10.4	100.00%	No		10.4
Hexyl Cellosolve -- BS: Solvent	N/A	220	No		1,628.0	100.00%	No		1,628.0
High Solids Converter -- USP: Paint/Coat	N/A	1,876	No		3,395.6	100.00%	No		3,395.6
High Solids Hi Heat Black L/F -- USP: Paint/Coat	N/A	1,238	No		4,198.1	100.00%	No		4,198.1
High Solids Urethane Thinner, (RC) -- DP: Solvent	N/A	69	No		519.6	100.00%	No		519.6
Imron 3.5 HG - Aluminum, (RC) -- DP: Paint/Coat	N/A	32	No		99.2	100.00%	No		99.2
Imron 3.5 HG (Black), (RC) -- DP: Paint/Coat	N/A	9	No		36.0	100.00%	No		36.0
Imron 3.5 HG Black -- DP: Paint/Coat	N/A	258	No		980.4	100.00%	No		980.4
Imron 3.5 HG Blue, (RC) -- DP: Paint/Coat	N/A	1	No		3.8	100.00%	No		3.8
Imron 333M-42P3301, V-Top Red, (RC) -- DP: Paint/Coat	N/A	55	No		209.0	100.00%	No		209.0
Imron 333M-42P3302, V-Top Yellow, (RC) -- DP: Paint/Coat	N/A	5	No		19.0	100.00%	No		19.0
Imron 5000 Accelerator -- DP: Paint/Coat	N/A	1	No		7.7	100.00%	No		7.7
Imron 5000 Reducer (RC) -- DP: Paint/Coat	N/A	11	No		82.5	100.00%	No		82.5
Imron Accelerator -- DP: Paint/Coat	N/A	2	No		16.3	100.00%	No		16.3
Imron Activator EZ-3461S -- DP: Paint/Coat	N/A	22	No		50.6	100.00%	No		50.6
Imron Clearcoat EZ-3460S -- DP: Paint/Coat	N/A	68	No		190.4	100.00%	No		190.4
Isopropyl Alcohol -- BS: Solvent	N/A	2,702	No		17,779.2	100.00%	No		17,779.2
Low Gloss Clear -- USP: Paint/Coat	N/A	986	No		4,672.7	100.00%	No		4,672.7
LPS Heavy Duty Silicone Lubricant -- LPS: Lubricant	N/A	14	No		35.0	100.00%	No		35.0
MAG One DOT 4 Brake Fluid (emission factor of 0.1%) -- WD:	N/A	1,635	No		14,164.3	100.00%	No		14,164.3
Methyl Ethyl Ketone -- BS: Solvent	N/A	110	No		733.7	100.00%	No		733.7
Methyl n-Amyl Ketone -- BS: Solvent	N/A	1,130	No		7,690.3	100.00%	No		7,690.3
n-Butanol -- BS: Solvent	N/A	180	No		1,215.7	100.00%	No		1,215.7

n-Butyl Acetate -- BS: Solvent	N/A	1,080	No		7,916.3	100.00%	No		7,916.3
Nitro-Stan Spot and Glazing Putty -- STAN: Adhesive	N/A	1	No		3.9	100.00%	No		3.9
Polyester Glazing Putty -- ITW: Adhesive	N/A	3	No		6.2	100.00%	No		6.2
Powercron Black Paste -- PPG: E-Coat	N/A	750	No		577.5	100.00%	No		577.5
Powercron Gray Paste -- PPG: E-Coat	N/A	2,350	No		2,053.9	100.00%	No		2,053.9
Powercron Replenishment -- PPG: E-Coat	N/A	16,740	No		2,845.8	100.00%	No		2,845.8
Premi-Glas (SMC, use expressed as gallons of styrene,	N/A	23,883	No		180,531.6	100.00%	No		180,531.6
Prep-Sol -- DP: Paint/Coat	N/A	12	No		78.0	100.00%	No		78.0
Primer C, (RC) -- SHIN: Paint/Coat	N/A	93	No		507.8	100.00%	No		507.8
Reducer -- USP: Paint/Coat	N/A	30	No		194.7	100.00%	No		194.7
Retarder -- DP: Solvent	N/A	2	No		15.7	100.00%	No		15.7
Scotchal Brand Edge Sealer 3950 -- 3M: Paint/Coat	N/A	1	No		4.4	100.00%	No		4.4
Special Protective Oil -- CHEM: Lubricant	N/A	110	No		653.4	100.00%	No		653.4
Spectramaster Green, DIC Imron 3.5 HG -- DP: Paint/Coat	N/A	1	No		3.7	100.00%	No		3.7
Sprayon All-Purpose Silicone Lube -- SP: Lubricant	N/A	89	No		491.3	100.00%	No		491.3
Strippable White Vinyl Coating (paint booth mastic) -- DV:	N/A	318	No		1,739.5	100.00%	No		1,739.5
Tert Butyl Acetate -- BS: Solvent	N/A	130	No		933.5	100.00%	No		933.5
Thinner for Corlar 2.1ST (25P), (RC) -- DP: Solvent	N/A	7	No		46.7	100.00%	No		46.7
Thinner for Corlar Epoxy Coatings -- DP: Solvent	N/A	21	No		152.3	100.00%	No		152.3
Thinner, (RC) -- DP: Solvent	N/A	41	No		295.2	100.00%	No		295.2
Thinner, DuPont, (RC) -- DP: Solvent	N/A	2	No		13.0	100.00%	No		13.0
Topcoat-Sovlentborne (Imron 3.5 HG White) -- DP:	N/A	3	No		11.4	100.00%	No		11.4
Tyrite 7501A Urethane Adhesive (constituents do not	N/A	11,440	No		0.0	100.00%	No		0.0
Tyrite 7503B Urethane Adhesive (constituents do not	N/A	15,785	No		0.0	100.00%	No		0.0
Tyrite 7547A Urethane Adhesive (constituents do not	N/A	550	No		0.0	100.00%	No		0.0
Unleaded Gasoline (emission factor of 1%) -- CP: Fuel	N/A	7,168	No		44,800.0	100.00%	No		44,800.0
USP 1K HD Hardwoods (Basecoat) -- USP: Paint/Coat	N/A	10	No		47.4	100.00%	No		47.4
USP 25Y Pearl Stardust White Basecoat -- USP: Paint/Coat	N/A	327	No		1,241.6	100.00%	No		1,241.6
USP 25Y Pearl Stardust White Pearlcoat -- USP: Paint/Coat	N/A	532	No		2,230.1	100.00%	No		2,230.1
USP Candy Lime Green -- USP: Paint/Coat	N/A	1,225	No		6,339.4	100.00%	No		6,339.4
USP Candy Persimmon Red -- USP: Paint/Coat	N/A	5	No		27.7	100.00%	No		27.7
USP Candy Thunder Blue Monocoat -- USP: Paint/Coat	N/A	205	No		972.3	100.00%	No		972.3
USP Canyon Silver Metallic -- USP: Paint/Coat	N/A	5	No		24.8	100.00%	No		24.8
USP Cosmic Pearl Gray H/S B/C -- USP: Paint/Coat	N/A	5	No		17.8	100.00%	No		17.8
USP DTP Fine Silver -- USP: Paint/Coat	N/A	245	No		1,431.5	100.00%	No		1,431.5
USP DTP Flame Gray -- USP: Paint/Coat	N/A	106	No		611.2	100.00%	No		611.2
USP DTP Lime Green -- USP: Paint/Coat	N/A	272	No		1,517.2	100.00%	No		1,517.2
USP DTP Meteor Blue (MSDS 01/21/2010) -- USP: Paint/Coat	N/A	114	No		665.4	100.00%	No		665.4
USP Ebony Black -- USP: Paint/Coat	N/A	2,865	No		15,422.3	100.00%	No		15,422.3
USP Firecracker Red Topcoat L/F H/S -- USP: Paint/Coat	N/A	45	No		168.0	100.00%	No		168.0
USP Flat Black Urethane Topcoat -- USP: Paint/Coat	N/A	239	No		1,256.4	100.00%	No		1,256.4
USP Galaxy Silver -- USP: Paint/Coat	N/A	274	No		1,287.5	100.00%	No		1,287.5
USP H/S Converter -- USP: Paint/Coat	N/A	1,148	No		2,617.4	100.00%	No		2,617.4
USP Hi-Heat Black Touch-Up Aerosol -- USP: Paint/Coat	N/A	9	No		46.2	100.00%	No		46.2
USP Jet Ski White -- USP: Paint/Coat	N/A	1,081	No		3,832.1	100.00%	No		3,832.1
USP Jet Ski White Basecoat -- USP: Paint/Coat	N/A	159	No		682.7	100.00%	No		682.7
USP KMM Metallic Tungsten Gray -- USP: Paint/Coat	N/A	1,132	No		5,307.9	100.00%	No		5,307.9
USP Light Gray Primer/Surfacer -- USP: Paint/Coat	N/A	2,405	No		7,674.4	100.00%	No		7,674.4
USP Lime Green #777 -- USP: Paint/Coat	N/A	588	No		2,366.7	100.00%	No		2,366.7
USP Luminous Vintage Red -- USP: Paint/Coat	N/A	778	No		3,774.9	100.00%	No		3,774.9
USP Max-1 Brown Basecoat -- USP: Paint/Coat	N/A	5	No		27.1	100.00%	No		27.1

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USP Metallic Dark Brown -- USP: Paint/Coat	N/A	35	No		111.0	100.00%	No		111.0
USP Metallic Graystone -- USP: Paint/Coat	N/A	5	No		23.9	100.00%	No		23.9
USP Metallic Nocturne Blue -- USP: Paint/Coat	N/A	132	No		598.8	100.00%	No		598.8
USP Metallic Phantom Silver -- USP: Paint/Coat	N/A	242	No		1,126.3	100.00%	No		1,126.3
USP Metallic Sonic Blue -- USP: Paint/Coat	N/A	315	No		1,461.6	100.00%	No		1,461.6
USP Metallic Surf Blue -- USP: Paint/Coat	N/A	349	No		1,607.1	100.00%	No		1,607.1
USP Metallic Titanium -- USP: Paint/Coat	N/A	872	No		3,988.5	100.00%	No		3,988.5
USP Overcoat Clear L/F -- USP: Paint/Coat	N/A	4,736	No		19,228.2	100.00%	No		19,228.2
USP Pearl Mystic Black -- USP: Paint/Coat	N/A	5	No		22.3	100.00%	No		22.3
USP Pearl Yellow Clear -- USP: Paint/Coat	N/A	5	No		20.3	100.00%	No		20.3
USP Primer Converter -- USP: Paint/Coat	N/A	1,293	No		4,076.8	100.00%	No		4,076.8
USP PWC Clear -- USP: Paint/Coat	N/A	2,686	No		14,152.5	100.00%	No		14,152.5
USP Ruby Red Metallic -- USP: Paint/Coat	N/A	5	No		23.4	100.00%	No		23.4
USP Stoic Black -- USP: Paint/Coat	N/A	357	No		1,483.7	100.00%	No		1,483.7
USP Sunbeam Red Basecoat -- USP: Paint/Coat	N/A	135	No		579.2	100.00%	No		579.2
USP Sunbeam Red Basecoat -- USP: Paint/Coat	N/A	497	No		2,081.9	100.00%	No		2,081.9
USP Sunbeam Red Monocoat -- USP: Paint/Coat	N/A	40	No		151.9	100.00%	No		151.9
USP Sunbeam Red Monocoat -- USP: Paint/Coat	N/A	5	No		19.3	100.00%	No		19.3
USP Touch-Up Converter -- USP: Paint/Coat	N/A	12	No		28.9	100.00%	No		28.9
USP UTV Inset Brown Basecoat -- USP: Paint/Coat	N/A	1	No		4.7	100.00%	No		4.7
USP Waterbased White Robot Paint -- USP: Paint/Coat	N/A	5	No		5.8	100.00%	No		5.8
USP Watercraft Topcoat Reducer -- USP: Solvent	N/A	65	No		468.0	100.00%	No		468.0
Xylene -- BS: Solvent	N/A	165	No		1,194.6	100.00%	No		1,194.6
Zep Powersolv 5000 -- ZEP: Solvent	N/A	6	No		65.3	100.00%	No		65.3
Zeplon (aerosol lubricant) -- ZEP: Lubricant	N/A	14	No		77.2	100.00%	No		77.2

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LIMIT OR CONTROL?	CONTROL DEVICE
Yes	Thermal Oxidizer
No	Flare

LIMIT OR CONTROL?	CONTROL DEVICE
Yes	Thermal Oxidizer
No	Flare
	Other

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Instructions for Section 7 - Table 7-C: Facility Wide APTE - HAP Emissions from HAP-Containing Materials

As seen in the example table below, the material name, HAP names, and maximum annual throughput entered on Table 5-C have been automatically imported into Table 7-C. In addition, the associated release factors have been imported as well. Proceed with completing Table 7-C as follows:

1. **In Column E, indicate whether you will agree to a throughput limit for the material in that row. When you click on the cells under Column E, a drop-down box will give you two options,**
2. **In Column F, indicate whether you will agree to control emissions from the material listed in that row. When you click on the cells under Column F, a drop-down box will give you two options, "Yes" or "No". Choose the appropriate answer.**
3. **If you select "No" in Column E, the associated cell in Column I will fill in dark gray, and the cell should be left blank. If you select "Yes" in Column E, then you will be prompted to enter a**
4. **If you select "No" in Column F, the associated cell in Column J will fill in dark gray and the cell should be left blank. If you select "Yes" in Column F, then you will be prompted to enter a**
5. **Once all required entries in each row are completed, an emission figure for each HAP will appear in Column L. These figures incorporate any throughput limits or control devices you elected**
6. **Please review the information presented in Table 7-C for accuracy. If you find errors or inconsistent data, please contact the Department for assistance.**
10. **Cells that are filled in with dark gray do not require data. Do not enter any information in these cells.**

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)
Blaster 10000	Xylenes	1330-20-7	1-1	Yes	Yes	1,000	gallons	500	Thermal Oxidizer	100.00%	37.5
	Toluene	108-88-3									12.5
	Methylene chloride	75-09-2									150.0
Triple Crown Adhesive	Hexane	110-54-3	3-2, 5-1	Yes	No	5,000	gallons	1,000		100.00%	1,000.0
	Methanol	67-56-1									500.0
	Cumene	98-82-8									500.0
	Ethyl benzene	100-41-4									250.0

This spreadsheet allows for entry of up to 250 rows of HAP data. When printing, be sure to specify printing only of pages that contain data.

End of Instructions. Complete the table below.

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)	Limit?	Control?	Max Throughput	Limited Throughput	Control %	LIMIT OR CONTROL?
3M Finesse-It Compounding Material Ivory	Ethyl benzene	100-41-4	N/A	No	No	1	gallons			100.00%	0.0	No	No	1	0	0%	Yes
	Naphthalene	91-20-3									0.0	No	No	1	0	0%	No
3M Scotch-Weld Neoprene High Perform. Adhesive	n-Hexane	110-54-3	N/A	No	No	780	gallons			100.00%	1,039.6	No	No	780	0	0%	
	Toluene	108-88-3									259.9	No	No	780	0	0%	
Activator 80 JW1	Dibutylphthalate	84-74-2	N/A	No	No	3	gallons			100.00%	2.1	No	No	3	0	0%	
	Ethyl benzene	100-41-4									2.9	No	No	3	0	0%	
	Ethylene glycol	107-21-1									1.2	No	No	3	0	0%	
	MIBK	108-10-1									1.0	No	No	3	0	0%	
	Xylene	1330-20-7									10.4	No	No	3	0	0%	
Activator IGJB-8T-2T	Dibutylphthalate	84-74-2	N/A	No	No	500	gallons			100.00%	218.3	No	No	500	0	0%	
	Ethyl benzene	100-41-4									540.2	No	No	500	0	0%	
	MIBK	108-10-1									334.3	No	No	500	0	0%	
	Xylene	1330-20-7									1,800.5	No	No	500	0	0%	
Activator, VGM 6005, (RC)	Hexamethylene-1,6-diisocyanate	822-06-0	N/A	No	No	100	gallons			100.00%	1.9	No	No	100	0	0%	
Adhesion Promoter	Chloroform	67-66-3	N/A	No	No	353	gallons			100.00%	16.2	No	No	353	0	0%	
Advance Anti-Freeze and Coolant (emission factor of 1%)	Ethylene glycol	107-21-1	N/A	No	No	15,260	gallons			100.00%	131,274.2	No	No	15260	0	0%	
Aluminum Baking	Ethyl benzene	100-41-4	N/A	No	No	13	gallons			100.00%	5.9	No	No	13	0	0%	
	Xylene	1330-20-7									27.2	No	No	13	0	0%	
Aviation Gasoline (emission factor of 1%)	Benzene	71-43-2	N/A	No	No	6,439	gallons			100.00%	93.8	No	No	6439	0	0%	
	Toluene	108-88-3									1,877.0	No	No	6439	0	0%	
Barsol A-2595	Toluene	108-88-3	N/A	No	No	110	gallons			100.00%	159.9	No	No	110	0	0%	
Barsol A-2596	Glycol ethers	-17-1	N/A	No	No	550	gallons			100.00%	372.2	No	No	550	0	0%	
Barsol A-2599	Glycol ethers	-17-1	N/A	No	No	110	gallons			100.00%	73.5	No	No	110	0	0%	
	Xylene	1330-20-7									359.1	No	No	110	0	0%	
Barsol C643	Perchloroethylen	127-18-4	N/A	No	No	5	gallons			100.00%	23.5	No	No	5	0	0%	
	Toluene	108-88-3									23.5	No	No	5	0	0%	
Barsol D-100	Cumene	98-82-8	N/A	No	No	385	gallons			100.00%	30.7	No	No	385	0	0%	
	Xylene	1330-20-7									61.4	No	No	385	0	0%	
Barsol D-150	Naphthalene	91-20-3	N/A	No	No	220	gallons			100.00%	161.4	No	No	220	0	0%	
Barsol DB	Glycol ethers	-17-1	N/A	No	No	55	gallons			100.00%	436.7	No	No	55	0	0%	
Barsol EB	Glycol ethers	-17-1	N/A	No	No	385	gallons			100.00%	2,887.5	No	No	385	0	0%	
Black Baking Enamel	Ethyl benzene	100-41-4	N/A	No	No	1,853	gallons			100.00%	1,840.9	No	No	1853	0	0%	
	Formaldehyde	50-00-0									72.1	No	No	1853	0	0%	
	Xylene	1330-20-7									5,259.7	No	No	1853	0	0%	
Clear Urethane (5/2010)	MIBK	108-10-1	N/A	No	No	8	gallons			100.00%	2.0	No	No	8	0	0%	
	Methyl methacrylate	80-62-6									1.3	No	No	8	0	0%	
	Toluene	108-88-3									5.3	No	No	8	0	0%	
	Xylene	1330-20-7									2.0	No	No	8	0	0%	
Converter - Polyurethane	Glycol ethers	-17-1	N/A	No	No	45	gallons			100.00%	90.2	No	No	45	0	0%	
	Toluene	108-88-3									41.3	No	No	45	0	0%	
	Xylene	1330-20-7									11.3	No	No	45	0	0%	
Corlar Activator	Toluene	108-88-3	N/A	No	No	109	gallons			100.00%	121.5	No	No	109	0	0%	
Corlar VF-525 Activator, (RC)	Toluene	108-88-3	N/A	No	No	1	gallons			100.00%	1.1	No	No	1	0	0%	
Diesel Fuel	Naphthalene	91-20-3	N/A	No	No	6,827	gallons			100.00%	241.7	No	No	6827	0	0%	
DTP AP Green	Toluene	108-88-3	N/A	No	No	2,703	gallons			100.00%	1,975.1	No	No	2703	0	0%	
Ebony Black Undercoat, 12/7/2005	Ethyl benzene	100-41-4	N/A	No	No	10	gallons			100.00%	0.3	No	No	10	0	0%	
	MIBK	108-10-1									1.6	No	No	10	0	0%	
	Toluene	108-88-3									8.1	No	No	10	0	0%	
	Xylene	1330-20-7									0.8	No	No	10	0	0%	
Enamel and Lacquer Clean-Up Solvent	Toluene	108-88-3	N/A	No	No	1	gallons			100.00%	0.9	No	No	1	0	0%	
Fish Eye Eliminator	Ethyl benzene	100-41-4	N/A	No	No	11	gallons			100.00%	15.8	No	No	11	0	0%	
	Xylene	1330-20-7									63.1	No	No	11	0	0%	
Flat Black Baking Enamel	Ethyl benzene	100-41-4	N/A	No	No	192	gallons			100.00%	11.0	No	No	192	0	0%	
	Xylene	1330-20-7									59.0	No	No	192	0	0%	

CONTROL DEVICE
Thermal Oxidizer
Flare
Other

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Flow Agent	Ethyl benzene	100-41-4	N/A	No	No	26	gallons			100.00%	34.6	No	No	26	0	0%
	Glycol ethers	-17-1									3.8	No	No	26	0	0%
	Xylene	1330-20-7									139.2	No	No	26	0	0%
Grafaway Brown	Ethyl benzene	100-41-4	N/A	No	No	3	gallons			100.00%	0.0	No	No	3	0	0%
	Toluene	108-88-3									0.9	No	No	3	0	0%
Grafaway Brown (aerosol)	Ethyl benzene	100-41-4	N/A	No	No	10	gallons			100.00%	1.3	No	No	10	0	0%
	Toluene	108-88-3									5.9	No	No	10	0	0%
Grafaway Frosty White (aerosol)	Ethyl benzene	100-41-4	N/A	No	No	2	gallons			100.00%	0.3	No	No	2	0	0%
	Toluene	108-88-3									1.2	No	No	2	0	0%
Grafaway Haze (aerosol)	Ethyl benzene	100-41-4	N/A	No	No	6	gallons			100.00%	0.8	No	No	6	0	0%
	Toluene	108-88-3									3.6	No	No	6	0	0%
Gray Paint, 3.5 HG, (LF42P3033), (RC)	Ethyl benzene	100-41-4	N/A	No	No	6	gallons			100.00%	0.3	No	No	6	0	0%
	Glycol ethers	-17-1									1.1	No	No	6	0	0%
	Xylene	1330-20-7									1.4	No	No	6	0	0%
Gray Paint, 3.5 HG, (RC)	Ethyl benzene	100-41-4	N/A	No	No	13	gallons			100.00%	0.6	No	No	13	0	0%
	Glycol ethers	-17-1									2.4	No	No	13	0	0%
	Xylene	1330-20-7									2.4	No	No	13	0	0%
Haze	Ethyl benzene	100-41-4	N/A	No	No	2	gallons			100.00%	0.1	No	No	2	0	0%
	MIBK	108-10-1									3.9	No	No	2	0	0%
	Xylene	1330-20-7									0.4	No	No	2	0	0%
Hexyl Cellosolve	Glycol ethers	-17-1	N/A	No	No	220	gallons			100.00%	1,628.0	No	No	220	0	0%
High Solids Converter	Hexamethylene-1,6-diisocyanate	822-06-0	N/A	No	No	1,876	gallons			100.00%	42.5	No	No	1876	0	0%
High Solids Hi Heat Black L/F	Cumene	98-82-8	N/A	No	No	1,238	gallons			100.00%	8.5	No	No	1238	0	0%
	Ethyl benzene	100-41-4									194.9	No	No	1238	0	0%
	Formaldehyde	50-00-0									1.4	No	No	1238	0	0%
	Toluene	108-88-3									11.3	No	No	1238	0	0%
	Xylene	1330-20-7									885.5	No	No	1238	0	0%
High Solids Urethane Thinner, (RC)	Ethyl benzene	100-41-4	N/A	No	No	69	gallons			100.00%	45.5	No	No	69	0	0%
	Glycol ethers	-17-1									259.8	No	No	69	0	0%
	Xylene	1330-20-7									215.6	No	No	69	0	0%
Imron 3.5 HG - Aluminum, (RC)	Ethyl benzene	100-41-4	N/A	No	No	32	gallons			100.00%	1.7	No	No	32	0	0%
	Glycol ethers	-17-1									17.5	No	No	32	0	0%
	Toluene	108-88-3									8.7	No	No	32	0	0%
	Xylene	1330-20-7									5.8	No	No	32	0	0%
Imron 3.5 HG (Black), (RC)	Ethyl benzene	100-41-4	N/A	No	No	9	gallons			100.00%	0.4	No	No	9	0	0%
	Glycol ethers	-17-1									3.8	No	No	9	0	0%
	Xylene	1330-20-7									1.5	No	No	9	0	0%
Imron 3.5 HG Black	Ethyl benzene	100-41-4	N/A	No	No	258	gallons			100.00%	10.8	No	No	258	0	0%
	Glycol ethers	-17-1									43.0	No	No	258	0	0%
	Toluene	108-88-3									21.5	No	No	258	0	0%
	Xylene	1330-20-7									64.6	No	No	258	0	0%
Imron 3.5 HG Blue, (RC)	Ethyl benzene	100-41-4	N/A	No	No	1	gallons			100.00%	0.0	No	No	1	0	0%
	Glycol ethers	-17-1									0.1	No	No	1	0	0%
	Toluene	108-88-3									0.2	No	No	1	0	0%
	Xylene	1330-20-7									0.2	No	No	1	0	0%
Imron 333M-42P3301, V-Top Red, (RC)	Ethyl benzene	100-41-4	N/A	No	No	55	gallons			100.00%	2.4	No	No	55	0	0%
	Glycol ethers	-17-1									9.6	No	No	55	0	0%
	Xylene	1330-20-7									12.0	No	No	55	0	0%
Imron 333M-42P3302, V-Top Yellow, (RC)	Ethyl benzene	100-41-4	N/A	No	No	5	gallons			100.00%	0.2	No	No	5	0	0%
	Glycol ethers	-17-1									0.4	No	No	5	0	0%
	Toluene	108-88-3									0.4	No	No	5	0	0%
	Xylene	1330-20-7									0.6	No	No	5	0	0%
Imron 5000 Reducer (RC)	Glycol ethers	-17-1	N/A	No	No	11	gallons			100.00%	33.2	No	No	11	0	0%
Imron Activator EZ-3461S	Glycol ethers	-17-1	N/A	No	No	22	gallons			100.00%	8.0	No	No	22	0	0%
Low Gloss Clear	Ethyl benzene	100-41-4	N/A	No	No	986	gallons			100.00%	14.3	No	No	986	0	0%
	Methyl methacrylate	80-62-6									168.4	No	No	986	0	0%
	Toluene	108-88-3									336.8	No	No	986	0	0%
Nitro-Stan Spot and Glazing Putty	Toluene	108-88-3	N/A	No	No	1	gallons			100.00%	0.7	No	No	1	0	0%
	Xylene	1330-20-7									0.7	No	No	1	0	0%
Premi-Glas (SMC, use expressed as gallons of styrene, emission factor of 1%)	Styrene	100-42-5	N/A	No	No	23,883	gallons			100.00%	18,955.8	No	No	23883	0	0%
Prep-Sol	Cumene	98-82-8	N/A	No	No	12	gallons			100.00%	0.2	No	No	12	0	0%
	Ethyl benzene	100-41-4									0.2	No	No	12	0	0%
Primer C, (RC)	Toluene	108-88-3	N/A	No	No	93	gallons			100.00%	254.1	No	No	93	0	0%
Retarder	Ethyl benzene	100-41-4	N/A	No	No	2	gallons			100.00%	0.0	No	No	2	0	0%
	Glycol ethers	-17-1									15.4	No	No	2	0	0%
	Xylene	1330-20-7									0.2	No	No	2	0	0%
Scotchal Brand Edge Sealer 3950	Ethyl benzene	100-41-4	N/A	No	No	1	gallons			100.00%	0.8	No	No	1	0	0%
	Toluene	108-88-3									0.0	No	No	1	0	0%
	Xylene	1330-20-7									3.6	No	No	1	0	0%
Spectramaster Green, DIC Imron 3.5 HG	Ethyl benzene	100-41-4	N/A	No	No	1	gallons			100.00%	0.0	No	No	1	0	0%
	Glycol ethers	-17-1									0.1	No	No	1	0	0%
	Xylene	1330-20-7									0.2	No	No	1	0	0%
Sprayon All-Purpose Silicone Lube	n-Hexane	110-54-3	N/A	No	No	89	gallons			100.00%	238.3	No	No	89	0	0%
Strippable White Vinyl Coating (paint booth mastic)	Toluene	108-88-3	N/A	No	No	318	gallons			100.00%	912.6	No	No	318	0	0%
Thinner for Corlar Epoxy Coatings	Cumene	98-82-8	N/A	No	No	21	gallons			100.00%	2.4	No	No	21	0	0%
	Xylene	1330-20-7									3.0	No	No	21	0	0%
Thinner, (RC)	Ethyl benzene	100-41-4	N/A	No	No	41	gallons			100.00%	47.2	No	No	41	0	0%
	Toluene	108-88-3									1.5	No	No	41	0	0%
	Xylene	1330-20-7									240.6	No	No	41	0	0%
Topcoat-Sovlentborne (Imron 3.5 HG White)	Ethyl benzene	100-41-4	N/A	No	No	3	gallons			100.00%	0.0	No	No	3	0	0%
	Glycol ethers	-17-1									3.0	No	No	3	0	0%

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Tyrite 7501A Urethane Adhesive (constituents do not volatilize)	MDI	101-68-8	N/A	No	No	11,440	gallons			100.00%	27,730.6	No	No	11440	0	0%
Tyrite 7547A Urethane Adhesive (constituents do not volatilize)	MDI	101-68-8	N/A	No	No	550	gallons			100.00%	1,732.5	No	No	550	0	0%
Unleaded Gasoline (emission factor of 1%)	Benzene	71-43-2	N/A	No	No	7,168	gallons			100.00%	1,120.0	No	No	7168	0	0%
	Toluene	108-88-3									2,240.0	No	No	7168	0	0%
USP 1K HD Hardwoods (Basecoat)	Ethyl benzene	100-41-4	N/A	No	No	10	gallons			100.00%	1.8	No	No	10	0	0%
	Glycol ethers	-17-1									3.8	No	No	10	0	0%
	Toluene	108-88-3									19.0	No	No	10	0	0%
	Xylene	1330-20-7									7.6	No	No	10	0	0%
USP 25Y Pearl Stardust White Basecoat	Ethyl benzene	100-41-4	N/A	No	No	327	gallons			100.00%	12.7	No	No	327	0	0%
	Methyl methacrylate	80-62-6									34.3	No	No	327	0	0%
	Toluene	108-88-3									34.3	No	No	327	0	0%
	Xylene	1330-20-7									34.3	No	No	327	0	0%
USP 25Y Pearl Stardust White Pearlcoat	Ethyl benzene	100-41-4	N/A	No	No	532	gallons			100.00%	10.2	No	No	532	0	0%
	Styrene	100-42-5									14.4	No	No	532	0	0%
USP Candy Lime Green	Ethyl benzene	100-41-4	N/A	No	No	1,225	gallons			100.00%	29.9	No	No	1225	0	0%
	Toluene	108-88-3									45.4	No	No	1225	0	0%
USP Candy Persimmon Red	Toluene	108-88-3	N/A	No	No	5	gallons			100.00%	0.1	No	No	5	0	0%
USP Candy Thunder Blue Monocoat	Ethyl benzene	100-41-4	N/A	No	No	205	gallons			100.00%	2.2	No	No	205	0	0%
	Toluene	108-88-3									16.0	No	No	205	0	0%
USP Canyon Silver Metallic	Ethyl benzene	100-41-4	N/A	No	No	5	gallons			100.00%	0.1	No	No	5	0	0%
	Toluene	108-88-3									1.6	No	No	5	0	0%
USP Cosmic Pearl Gray H/S B/C	Ethyl benzene	100-41-4	N/A	No	No	5	gallons			100.00%	0.1	No	No	5	0	0%
	Methyl methacrylate	80-62-6									0.4	No	No	5	0	0%
	Toluene	108-88-3									0.4	No	No	5	0	0%
USP DTP Fine Silver	Ethyl benzene	100-41-4	N/A	No	No	245	gallons			100.00%	24.0	No	No	245	0	0%
	Glycol ethers	-17-1									18.5	No	No	245	0	0%
	Toluene	108-88-3									166.1	No	No	245	0	0%
	Xylene	1330-20-7									92.3	No	No	245	0	0%
USP DTP Flame Gray	Ethyl benzene	100-41-4	N/A	No	No	106	gallons			100.00%	4.7	No	No	106	0	0%
	Glycol ethers	-17-1									15.8	No	No	106	0	0%
	Toluene	108-88-3									78.8	No	No	106	0	0%
USP DTP Lime Green	Ethyl benzene	100-41-4	N/A	No	No	272	gallons			100.00%	3.1	No	No	272	0	0%
	Glycol ethers	-17-1									20.9	No	No	272	0	0%
	Toluene	108-88-3									167.1	No	No	272	0	0%
USP DTP Meteor Blue (MSDS 01/21/2010)	Ethyl benzene	100-41-4	N/A	No	No	114	gallons			100.00%	1.3	No	No	114	0	0%
	Toluene	108-88-3									150.4	No	No	114	0	0%
USP Ebony Black	Toluene	108-88-3	N/A	No	No	2,865	gallons			100.00%	474.4	No	No	2865	0	0%
USP Firecracker Red Topcoat L/F H/S	Ethyl benzene	100-41-4	N/A	No	No	45	gallons			100.00%	0.5	No	No	45	0	0%
	Styrene	100-42-5									1.1	No	No	45	0	0%
USP Flat Black Urethane Topcoat	Ethyl benzene	100-41-4	N/A	No	No	239	gallons			100.00%	2.4	No	No	239	0	0%
	Glycol ethers	-17-1									180.6	No	No	239	0	0%
	Methyl methacrylate	80-62-6									20.1	No	No	239	0	0%
	Toluene	108-88-3									120.4	No	No	239	0	0%
USP Galaxy Silver	Ethyl benzene	100-41-4	N/A	No	No	274	gallons			100.00%	9.0	No	No	274	0	0%
	Toluene	108-88-3									22.6	No	No	274	0	0%
USP Hi-Heat Black Touch-Up Aerosol	Ethyl benzene	100-41-4	N/A	No	No	9	gallons			100.00%	1.9	No	No	9	0	0%
	Glycol ethers	-17-1									2.7	No	No	9	0	0%
	Toluene	108-88-3									12.7	No	No	9	0	0%
	Xylene	1330-20-7									7.2	No	No	9	0	0%
USP Jet Ski White	Ethyl benzene	100-41-4	N/A	No	No	1,081	gallons			100.00%	60.5	No	No	1081	0	0%
USP Jet Ski White Basecoat	Ethyl benzene	100-41-4	N/A	No	No	159	gallons			100.00%	6.8	No	No	159	0	0%
	Toluene	108-88-3									19.0	No	No	159	0	0%
	Xylene	1330-20-7									19.0	No	No	159	0	0%
USP KMM Metallic Tungsten Gray	Ethyl benzene	100-41-4	N/A	No	No	1,132	gallons			100.00%	2.8	No	No	1132	0	0%
	Toluene	108-88-3									282.6	No	No	1132	0	0%
USP Light Gray Primer/Surfacer	Ethyl benzene	100-41-4	N/A	No	No	2,405	gallons			100.00%	256.5	No	No	2405	0	0%
	Xylene	1330-20-7									905.4	No	No	2405	0	0%
USP Lime Green #777	Ethyl benzene	100-41-4	N/A	No	No	588	gallons			100.00%	34.2	No	No	588	0	0%
	Toluene	108-88-3									118.0	No	No	588	0	0%
	Xylene	1330-20-7									118.0	No	No	588	0	0%
USP Luminous Vintage Red	Ethyl benzene	100-41-4	N/A	No	No	778	gallons			100.00%	44.5	No	No	778	0	0%
	Xylene	1330-20-7									121.8	No	No	778	0	0%
USP Max-1 Brown Basecoat	Ethyl benzene	100-41-4	N/A	No	No	5	gallons			100.00%	0.9	No	No	5	0	0%
	Glycol ethers	-17-1									1.0	No	No	5	0	0%
	Toluene	108-88-3									9.6	No	No	5	0	0%
	Xylene	1330-20-7									3.8	No	No	5	0	0%
USP Metallic Dark Brown	Ethyl benzene	100-41-4	N/A	No	No	35	gallons			100.00%	8.9	No	No	35	0	0%
	Formaldehyde	50-00-0									0.1	No	No	35	0	0%
	Xylene	1330-20-7									33.5	No	No	35	0	0%
USP Metallic Graystone	Ethyl benzene	100-41-4	N/A	No	No	5	gallons			100.00%	0.1	No	No	5	0	0%
	Toluene	108-88-3									0.4	No	No	5	0	0%
USP Metallic Nocturne Blue	Ethyl benzene	100-41-4	N/A	No	No	132	gallons			100.00%	3.9	No	No	132	0	0%
	Toluene	108-88-3									42.8	No	No	132	0	0%
	Xylene	1330-20-7									10.7	No	No	132	0	0%
USP Metallic Phantom Silver	Toluene	108-88-3	N/A	No	No	242	gallons			100.00%	20.1	No	No	242	0	0%
USP Metallic Sonic Blue	Ethyl benzene	100-41-4	N/A	No	No	315	gallons			100.00%	6.9	No	No	315	0	0%

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	Glycol ethers	-17-1									25.6	No	No	315	0	0%
USP Metallic Surf Blue	Ethyl benzene	100-41-4	N/A	No	No	349	gallons			100.00%	1.4	No	No	349	0	0%
	Toluene	108-88-3									13.8	No	No	349	0	0%
USP Metallic Titanium	Ethyl benzene	100-41-4	N/A	No	No	872	gallons			100.00%	2.9	No	No	872	0	0%
	Toluene	108-88-3									73.0	No	No	872	0	0%
USP Overcoat Clear L/F	Ethyl benzene	100-41-4	N/A	No	No	4,736	gallons			100.00%	86.9	No	No	4736	0	0%
	Styrene	100-42-5									147.4	No	No	4736	0	0%
USP Pearl Mystic Black	Ethyl benzene	100-41-4	N/A	No	No	5	gallons			100.00%	0.1	No	No	5	0	0%
	Toluene	108-88-3									0.4	No	No	5	0	0%
USP Pearl Yellow Clear	Ethyl benzene	100-41-4	N/A	No	No	5	gallons			100.00%	0.1	No	No	5	0	0%
	Styrene	100-42-5									0.2	No	No	5	0	0%
USP PWC Clear	Methyl methacrylate	80-62-6	N/A	No	No	2,686	gallons			100.00%	436.2	No	No	2686	0	0%
	Naphthalene	91-20-3									621.5	No	No	2686	0	0%
	Toluene	108-88-3									654.2	No	No	2686	0	0%
USP Ruby Red Metallic	Ethyl benzene	100-41-4	N/A	No	No	5	gallons			100.00%	0.4	No	No	5	0	0%
	Toluene	108-88-3									0.2	No	No	5	0	0%
	Xylene	1330-20-7									1.3	No	No	5	0	0%
USP Stoic Black	Ethyl benzene	100-41-4	N/A	No	No	357	gallons			100.00%	3.7	No	No	357	0	0%
	Toluene	108-88-3									6.4	No	No	357	0	0%
USP Sunbeam Red Basecoat	Toluene	108-88-3	N/A	No	No	135	gallons			100.00%	34.2	No	No	135	0	0%
USP Sunbeam Red Basecoat	Toluene	108-88-3	N/A	No	No	497	gallons			100.00%	122.6	No	No	497	0	0%
USP Sunbeam Red Basecoat	Ethyl benzene	100-41-4	N/A	No	No	40	gallons			100.00%	14.7	No	No	40	0	0%
	Xylene	1330-20-7									3.5	No	No	40	0	0%
USP Sunbeam Red Monocoat	Ethyl benzene	100-41-4	N/A	No	No	5	gallons			100.00%	1.0	No	No	5	0	0%
	Styrene	100-42-5									0.1	No	No	5	0	0%
USP UTV Inset Brown Basecoat	Ethyl benzene	100-41-4	N/A	No	No	1	gallons			100.00%	0.0	No	No	1	0	0%
USP Waterbased White Robot Paint	Formaldehyde	50-00-0	N/A	No	No	5	gallons			100.00%	0.2	No	No	5	0	0%
	Glycol ethers	-17-1									2.9	No	No	5	0	0%
Xylene	Ethyl benzene	100-41-4	N/A	No	No	165	gallons			100.00%	238.9	No	No	165	0	0%
	Xylene	1330-20-7									955.7	No	No	165	0	0%
														0	0	0%
														0	0	0%
														0	0	0%
														0	0	0%
														0	0	0%
														0	0	0%
														0	0	0%
														0	0	0%
														0	0	0%

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

Table 7-D does not require any user inputs. This table serves to compare your facility's actual potential to emit (APTE) to the operating permit thresholds established in the LLCAPCPRS.

If your facility's Actual Potential to Emit (APTE) meets or exceeds any of the Class I permit thresholds, then your source will be required to obtain a Class I operating permit.

If you elected to accept throughput limits or emission control requirements in Section 6 to maintain your facility as a Class II 'Synthetic Minor Source', or as a Class I 'Synthetic Area Source' of HAP

If you met or exceeded any of the Class II permit thresholds in Table 5-D, then your source will be required to obtain a Class II operating permit, regardless of your facility's APTE.

Complete and submit the remainder of this application.

End of Instructions. Once application is completed, print the table below.

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}	95.96	15.0	Yes	100.0	No
$PM_{2.5}$	90.09				
NOx	206.55	40.0	Yes	100.0	Yes
SOx	14.29	40.0	No	100.0	No
VOC	249.00	40.0	Yes	100.0	Yes
CO	101.83	50.0	Yes	100.0	Yes
Lead	0.00	0.6	No	5.0	No
GHGs	178,637.34				

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	65.64	2.5	Yes	10.0	Yes
Total Combined HAP	121.35	10.0	Yes	25.0	Yes

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PERMIT SHIELD FACT SHEET

What is a 'Permit Shield'?

The Clean Air Act allows a Class I (major) source to protect itself from enforcement action and citizen suits for failure to comply with provisions of applicable requirements omitted from, or incorrectly addressed in, its operating permit. This is accomplished through what is called a permit shield. When approved by the Department, a permit shield becomes a condition in a Class I operating permit that provides the source with the protection discussed above. For applicable requirements that are incorrectly addressed, the source is protected as long as it operates in compliance with the conditions of the applicable requirement addressed in the permit. For applicable requirements omitted from the permit, the source is protected as long as it operates in compliance with the permit. A Class I source can request a permit shield in its operating permit application for both applicable requirements and requirements that

What is an Applicable Requirement?

An applicable requirement is a requirement in the LLCAPCPRS, a construction permit, a federal regulation, or a state implementation plan that applies to an emission unit at a source (see the definition of applicable requirement in Article 2, Section 1 of the LLCAPCPRS for more detail). Examples of applicable requirements include the following:

-- National Emission Standards for Hazardous Air Pollutants (NESHAP)
-- Maximum Achievable Control Technology (MACT) standards
-- New Source Performance Standards (NSPS)
-- Construction permit conditions
-- Process weight rate
-- Opacity
-- The duty to submit emission inventories
-- Open burning
-- Fugitive dust

Can a permit shield be provided for the LLCAPCPRS in its entirety?

A permit shield cannot be provided for requirements unless they apply, or appear to apply, to a specific emission unit. It is unacceptable to place "Lincoln-Lancaster County Air Pollution Control Program Regulations and Standards" or list entire Sections from the LLCAPCPRS in the permit shield request because these are not emission-point specific. For example, Article 2, Section 18 includes all of the NSPS adopted by the Department. It is unacceptable to request a permit shield for the entire chapter because that does not identify the requirement that applies, or appears to apply, to a specific emissions unit (see requesting a permit shield below for more information). A permit shield cannot be

-- LLCAPCPRS, or entire Sections of the LLCAPCPRS
-- The emergency provisions under Article 1 of the LLCAPCPRS
-- Liability for any violations of applicable requirements or applicable requirements under the Act prior to or at the time of permit issuance;
-- The applicable requirements of acid rain provisions
-- The authority of the Department or the Environmental Protection Agency to obtain information

Requesting a permit shield for applicable requirements.

For applicable requirements, the source's operating permit application must specifically identify which applicable requirements apply to the source. If the source requests a permit shield in its operating permit application and the Department provides one, the source is shielded from enforcement action and citizen suits for failure to comply with the provisions of an applicable requirement omitted from, or incorrectly addressed in their operating permit, as long as the source complies with the permit. For example, if the permit addresses a MACT standard and cites an incorrect date for submittal of the source's compliance status notification, as long as the source has a permit shield and complies with the date in its permit, it will not be subject to enforcement action or citizen suits for being out of compliance with this provision of the MACT standard. Another example would be if the permit fails to address a provision of a MACT standard (e.g., the requirement to submit the compliance status notification), with a permit When the Department finds that an applicable requirement was improperly addressed or not included in the operating permit, but should have been, the Department will reopen and modify the permit for cause, as allowed

Requesting a permit shield for requirements that do not apply to the source.

A source can also request to be shielded from requirements that appear to be applicable to the source, but they actually are not. An example would be a source that produces ethanol for fuel. Ethanol is specifically listed as a chemical that is covered under both NSPS Subparts NNN and RRR; however, in the background documents for both of these standards, ethanol produced through fermentation (biological synthesis) was specifically excluded from the scope of both standards. The source could request a permit shield from these standards. If the Department evaluated the source's request, agreed, and addressed it in the permit, the source would not have to comply with the NSPS. If the Department makes an incorrect interpretation and a source actually is subject to an NSPS or another regulation it was shielded from in the operating permit, the source would be shielded from enforcement action and citizen suits, and the permit would be reopened and modified under LLCAPCPRS Article 2, Section 15. When

Instructions for Section 8: Permit Shield for Class I Sources

If your source does not require a permit, or if you are applying for a Class II Minor or Class II Synthetic Minor operating permit, this section does not apply to you.

In accordance with Article 2, Section 8, paragraph (N) of the LLCAPCPRS, owners/operators of Class I sources may request a 'permit shield'. The permit shield shall provide that compliance with a permit during its term
If your source is required to obtain a Class I operating permit, then you must complete this section. Indicate, in the check boxes provided, whether or not you wish to include a permit sheild in your Class I operating permit.
This permit shield does not relieve you from the requirement to comply with any regulations or standards issued during the term of the permit that apply to your source.
A Class I permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
When listing regulations in this section, be sure to include an adequate citation of the rule. For example, do not simply write "Subpart M", as this could refer to any number of Subparts of rules administered by the EPA.

Before completing this sheet, click here to read complete instructions regarding Permit Shields.

This spreadsheet allows for up to 5 pages of regulations. When printing, be sure to specify printing only of pages that contain data.

End of Instructions. Complete the form below, if applicable.

SECTION 8: PERMIT SHIELD

Class I	Class II	N.P.R.
TRUE	TRUE	FALSE
TRUE		
FALSE		TRUE

HAP

MAJOR	AREA
TRUE	FALSE

Part A: Permit Shield Applicability

Do you wish to apply for a 'permit shield' as defined in Article 2, Section 8 of the LLCAPCPRS?

☑ Yes	Yes, I wish to apply for a permit shield.
☐ No	No, I do not wish to apply for a permit shield.

In the space provided under Part B (below), include all regulations from which you would like to be shielded from

Part B: Regulations Included Under Permit Shield

Regulation Citation (e.g. 40 CFR 63 Subpart A)	Regulation Name (e.g. General Provisions)	Reason(s) why regulation does not apply.
40 CFR Part 60, Subpart Dc	NSPS for Small Industrial/	Shield requested for EU 017-01 & 017-02, boilers are smaller
40 CFR Part 60, Subpart Kb	NSPS for Volatile Org. Liquid Storage Vessels	All petroleum storage tanks have a storage capacity of less
40 CFR Part 60, Subpart CCCC	NSPS for CISWI Units Const after 8-30-99, or Reconst/Mod after 6-6-01	EU 18 - units are exempted as 'part/rack/drum reclamation units' per §60.2020 (k)
40 CFR Part 60, Subpart DDDD	NSPS for CISWI Units Const on or before 8-30-99	EU 18 - units are exempted as 'part/rack/drum reclamation units' per §60.2555 (k)
40 CFR Part 60, Subpart IIII	NSPS for Stationary Compression Ignition	Shield requested for EU 025-02, engine was installed prior to
40 CFR Part 63, Subpart N	NESHAP for Hard & Decorative Chrome	Chrome-plated products used at KMM are acquired from
40 CFR Part 63, Subpart Q	NESHAP for Industrial Process Cooling Towers	Chromium-based water treatment chemicals are not used at
40 CFR Part 63, Subpart R	NESHAP for Gasoline Distribution Facilities	KMM does not meet definition of a 'bulk gasoline terminal'.
40 CFR Part 63, Subpart T	NESHAP for Halogenated Solvent Cleaning	KMM does not use halogenated solvent cleaning machines.
40 CFR Part 63, Subpart III	NESHAP for Flexible Polyurethane Foam	KMM does not perform this type of process. Foam seats are
40 CFR Part 63, Subpart YYYY	NESHAP for Stationary Combustion Turbines	Combustion turbine was constructed prior to 1-14-03, and is exempt as existing source per §63.6090 (b)(4).
40 CFR Part 63, Subpart PPPPP	NESHAP for Engine Test Cells/Stands	Engines tested after installation in product, does not meet the definition of a test cell/stand in §63.9285 (a).
40 CFR Part 63, Subpart CCCCCC	NESHAP for Gasoline Dispensing Facilities (Area Sources)	KMM is a 'major source' of HAP, and this rule applies only to 'area sources' of HAP.
40 CFR Part 64	Compliance Assurance Monitoring	Control equipment at KMM is not used to control any
40 CFR Part 68	Chemical Accident Prevention Provisions	KMM does not store any regulated substances in excess of

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Part B: Regulations Included Under Permit Shield		
Regulation Citation (e.g. 40 CFR 63 Subpart A)	**Regulation Name** (e.g. General Provisions)	**Reason(s) why regulation does not apply.**
LLCAPCPRS Article 2, Section 3	**Reserved.**	**This section of the LLCAPCPRS is currently reserved, and contains no applicable regulations.**
LLCAPCPRS Article 2, Section 9	**General Operating Permits for Class I and II Sources**	**KMM is a 'specific' Class I source, and does not qualify for a general operating permit.**
LLCAPCPRS Article 2, Section 10	**Operating Permits for Temporary Sources**	**KMM is not a temporary source.**
LLCAPCPRS Article 2, Section 21	**Compliance Assurance Monitoring (CAM)**	**Control equipment at KMM is not used to control any criteria pollutants that qualify KMM as a major source.**
LLCAPCPRS Article 2, Section 25	**Nitrogen Oxides — Emissions Standards for Existing Stationary Sources**	**This section applies only to nitric acid plants.**
LLCAPCPRS Article 2, Section 26	**Acid Rain**	**Not an acid rain source. Any electricity generated by the combustion turbine will be used internally.**
LLCAPCPRS Article 2, Section 31	**Reserved.**	**This section of the LLCAPCPRS is currently reserved, and contains no applicable regulations.**

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Part B: Regulations Included Under Permit Shield		
Regulation Citation (e.g. 40 CFR 63 Subpart A)	**Regulation Name** (e.g. General Provisions)	**Reason(s) why regulation does not apply.**

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Part B: Regulations Included Under Permit Shield		
Regulation Citation (e.g. 40 CFR 63 Subpart A)	**Regulation Name** (e.g. General Provisions)	**Reason(s) why regulation does not apply.**

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Part B: Regulations Included Under Permit Shield		
Regulation Citation (e.g. 40 CFR 63 Subpart A)	**Regulation Name** (e.g. General Provisions)	**Reason(s) why regulation does not apply.**

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Instructions for Section 9: Applicable Rules and Requirements

In this section, you must identify the applicable regulations set forth under the Lincoln-Lancaster County Air Pollution Control Program Regulations and Standards (LLCAPCPRS), as well as any federal air regulations that apply to your source. This section should be completed as follows:

1. In Part A of this section, indicate whether the provided regulations of the LLCAPCPRS apply to your source. For those rules that do apply to your source, provide a brief description (5-10 words)
2. In Part B of this section, identify all federal air regulations that apply specifically to your source, including those rules with compliance dates set to take place after issuance of the permit. Do not identify federal rules pertaining to permitting programs or enforcement. In addition, if there are any regulations set forth under the LLCAPCPRS not identified in Part A that apply specifically to your source, provide a citation of the regulation and the name of the section the rule is found in. For all rules identified in Part B, attach a brief description (1-2 paragraphs) detailing how your source will achieve and maintain compliance with the stated rule. The description should include the types of parameters that are monitored, the types of records kept, the required reporting, and the test methods used (as applicable) to demonstrate compliance.
3. In Part C of this section, identify all rules that would appear to apply to your source (or to equipment located at your source), but that do not actually apply. For example, if you own a 10,000

The following links have been provided to help you identify which rules may apply to your source. Department personnel can provide you with technical assistance regarding specific applicability of some rules. TRUE

Lincoln-Lancaster County Air Pollution Control Program Regulations & Standards (LLCAPCPRS)
40 CFR Part 60 - New Source Performance Standards (NSPS)
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants (NESHAPs)
40 CFR Part 63 - NESHAP Maximum Achievable Control Technology (MACT) Standards
40 CFR Part 64 - Compliance Assurance Monitoring (CAM)
40 CFR Part 68 - Chemical Accident Prevention Provisions
40 CFR Part 82 - Protection of Stratospheric Ozone

Acid Rain Regulations

40 CFR Part 72 - Permits | 40 CFR Part 73 - Allowance System | 40 CFR Part 74 - Opt-In | 40 CFR Part 75 - Continuous Emission Monitoring

40 CFR Part 76 - NOx | 40 CFR Part 77 - Excess Emissions | 40 CFR Part 78 - Appeal Procedures

Parts B and C of this spreadsheet allow for multiple pages. When printing, be sure to specify printing only of pages that contain data.

End of Instructions. Complete the form below.

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

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	Describe compliance with each applicable NSPS in Part B, below.	TRUE	FALSE	TRUE
LLCAPCPRS Article 2, Section 19: Prevention of Significant Deterioration (PSD) of Air Quality	☐ Yes ☑ No	Const. Pmt. 165 limits VOC to less than PSD major source thresholds	FALSE	TRUE	TRUE
LLCAPCPRS Article 2, Section 20, paragraph (A)(1): Particulate Emission Stds. for Incinerators & Burn-Ovens	☑ Yes ☐ No	Manufacturer data.	TRUE	FALSE	TRUE
LLCAPCPRS Article 2, Section 20, paragraph (B): Particulate Emission Stds. for Combustion Units >10,000 & <10 MMBtu	☑ Yes ☐ No	Emission factor-based emission rate calculations.	TRUE	FALSE	TRUE
LLCAPCPRS Article 2, Section 20, paragraph (C): Particulate Emission Stds. for Combustion Units <10,000 & >10 MMBtu	☐ Yes ☑ No	No units subject to this requirement.	FALSE	TRUE	TRUE
LLCAPCPRS Article 2, Section 20, paragraph (E): <20% Opacity of Visible Emissions	☑ Yes ☐ No	Periodic visible emission observations according to the permit requirements.	TRUE	FALSE	TRUE
LLCAPCPRS Article 2, Section 20, Table 20-1: Process Weight Rate Particulate Emission Stds.	☑ Yes ☐ No	Emission factor-based emission rate calculations.	TRUE	FALSE	TRUE
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.	FALSE	TRUE	TRUE
LLCAPCPRS Article 2, Section 22, paragraph (A)(14): Standards for Pathological Material Incinerators	☑ Yes ☐ No	Manufacturer data.	TRUE	FALSE	TRUE
LLCAPCPRS Article 2, Section 22, paragraph (C): Standards for Air Curtain Incinerators	☐ Yes ☑ No	No units subject to this requirement.	FALSE	TRUE	TRUE
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.	FALSE	TRUE	TRUE
LLCAPCPRS Article 2, Section 24: Sulfur Compound Emissions - Existing Sources - Emission Standards	☑ Yes ☐ No	Emission factor-based emission rate calculations.	TRUE	FALSE	TRUE
LLCAPCPRS Article 2, Section 25: Nitrogen Oxides - Emission Standards for Existing Stationary Sources	☐ Yes ☑ No	See permit shield.	FALSE	TRUE	TRUE
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.	FALSE	TRUE	TRUE
LLCAPCPRS Article 2, Section 27: Hazardous Air Pollutants - Maximum Achievable Control Technology (MACT)	☑ Yes ☐ No	Describe compliance with each applicable standard in Part B, below.	TRUE	FALSE	TRUE
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.	TRUE	FALSE	TRUE
LLCAPCPRS Article 2, Section 32: Dust - Duty to Prevent the Escape Of	☑ Yes ☐ No	Visible dust observations as needed.	TRUE	FALSE	TRUE

PART B: Applicable Federal Regulations and Additional Applicable LLCAPCPRS

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.

If supplying compliance explanations for multiple rules, you do not need to submit each explanation on its own piece of paper.

Regulation Name (e.g. NSPS for Grain Elevators)	Regulation Citation (e.g. 40 CFR 60 Subpart DD)	Emission unit(s) covered by this regulation.
NSPS General Provisions	40 CFR Part 60, Subpart A	017-03
NSPS for Stationary Gas Turbines	40 CFR Part 60, Subpart GG	017-03
Asbestos NESHAP	40 CFR Part 61, Subpart M	Entire Facility
NESHAP MACT General Provisions	40 CFR Part 63, Subpart A	Several units covered due to applicability of
NESHAP MACT for Surface Coating of Misc.	40 CFR Part 63, Subpart MMMM	Several units covered due to similar processes in
NESHAP MACT for Surface Coating of Plastic	40 CFR Part 63, Subpart PPPP	Several units covered due to similar processes in
NESHAP MACT for Boat Manufacturing	40 CFR Part 63, Subpart VVVV	Several units covered due to similar processes in
NESHAP MACT for Reinforced Plastic	40 CFR Part 63, Subpart WWWW	Several units covered due to similar processes in
NESHAP MACT for Stationary Recip. Internal	40 CFR Part 63, Subpart ZZZZ	025-01
NESHAP MACT for Boilers & Process Heaters	40 CFR Part 63, Subpart DDDDD	017-01 & 017-02, some (but not all) units included
Protection of Stratospheric Ozone	40 CFR Part 82	Entire Facility

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PART B: Applicable NSPS, NESHAPs, MACT Standards, and Acid Rain Requirements (continued)		
Regulation Name (e.g. NSPS for Grain Elevators)	**Regulation Citation** (e.g. 40 CFR 60 Subpart DD)	**Emission unit(s) covered by this regulation.**

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PART C: Non-Applicable LLCAPCPRS Regulations & Non-Applicable Federal Regulations For those regulations that would appear to apply to your source, but do not actually apply to your source, use the spaces provided below to provide the citation of the regulation, as well as the reason(s) that the regulation does	
Regulation Citation (e.g. 40 CFR 60 Subpart DD)	**Provide the reason(s) the regulation does not apply to your source.**
40 CFR Part 98	**Not required to report emissions under §98.2.**

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PART C: Non-Applicable LLCAPCPRS Regulations & Non-Applicable Federal Regulations	
Regulation Citation (e.g. 40 CFR 60 Subpart DD)	**Provide the reason(s) the regulation does not apply to your source.**

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Instructions for Section 10: Compliance Plan

In the form below, indicate whether your source will be in compliance with all applicable rules and regulations identified in Section 9. If there are regulations that your source will not be in compliance with, either at the time that the permit is issued, or when the compliance date of the regulation is reached, then indicate which rules the source will be out of compliance with, and describe why compliance cannot or will not be acheived.

For those rules that your source will not be in compliance with, complete one of the provided forms in the worksheet labeled Table 10-A - Compliance Schedule.
When you have completed Parts A, B, and Table 10-A (if necessary) continue to the "Application Checklist".

Part B of this spreadsheet allows for up to 15 rules. If you require additional space, contact the Department.

End of Instructions. Complete the form below.

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,	
☑ Yes ☐ No	Proceed to Application Checklist.

TRUE FALSE TRUE

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.

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Instructions for Table 10-A: Compliance Schedule

The regulations you indicated your source would not be in compliance with, as indicated in the Section 10 form, have been automatically imported into this form. For each rule that your source will not be in compliance with, provide a narrative description of how compliance with the requirement will be acheived, and provide a detailed schedule of how your source will acheive compliance.

Be aware that the Department will require periodic reports of progress until compliance is acheived. These reports will be required at least once every six (6) months following issuance of the permit, and

This spreadsheet allows for 5 pages. When printing, be sure to specify printing only of pages that contain data.

End of Instructions. Complete the form below, if necessary.

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

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

ED_006001_00001468-00080

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

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

Applicable Requirement Name:	
Requirement Citation:	

Provide a narrative description of how compliance with this requirement will be achieved.

ED_006001_00001468-00081

Provide a detailed schedule for achieving compliance.	
Remedial Measures/Milestones	Date Expected

ED_006001_00001468-00082

Instructions for Application Completeness Checklist

All applications must include a completeness checklist. The following are general instructions for the completion and submittal of an Air Quality Operating Permit Application. These instructions do not cover the individual Sections in this Application.

Separate instructions are provided for individual sections in this application package.

We regularly update our application forms, so please check the LLCHD website frequently for the latest application forms.

All applications must include this completeness checklist. On the form provided below, please indicate which application forms and sections are included with your Air Quality Operating

End of Instructions. Complete the form below.

APPLICATION COMPLETENESS CHECKLIST

Does this application contain confidential information?	☐ Yes ☐ No	If "Yes" are application pages containing confidential data clearly marked?	☐ Yes ☐ No

Continue with the remainder of the checklist.

Will your source require a Class I (Title V) operating permit?	☐ Yes ☐ No

You must submit the original signed operating permit application, as well as two (2) additional signed copies of

Section Number & Name	Included With Application?	If not included, provide reason.	Hyperlinks to each section / table provided below.
Section 1: Administrative Information And Responsible Official Certification	☐ Yes ☐ No		Section 1: Administrative Information And Responsible Official Certification
Section 2: Detailed Source Information	☐ Yes ☐ No		Section 2: Detailed Source Information
Table 3-A: Emission Unit Identification	☐ Yes ☐ No		Table 3-A: Emission Unit Identification
Table 3-B: Stack / Release Point Information	☐ Yes ☐ No		Table 3-B: Stack / Release Point Information
Table 4-A: Insignificant Activities List	☐ Yes ☐ No	No equipment to list under this table.	Table 4-A: Insignificant Activities List
Table 4-B: Fuel Storage and Distribution Equipment Information	☐ Yes ☐ No		Table 4-B: Fuel Storage and Distribution Equipment Information
Table 4-C: Insignificant Cooling Towers	☐ Yes ☐ No		Table 4-C: Insignificant Cooling Towers
Table 5-A: Facility-Wide MPTE – Regulated Air Pollutant Emissions	☐ Yes ☐ No		Table 5-A: Facility-Wide MPTE – Regulated Air Pollutant Emissions
Table 5-B: Facility-Wide MPTE – VOC Emissions from VOC-Containing Materials	☐ Yes ☐ No		Table 5-B: Facility-Wide MPTE – VOC Emissions from VOC-Containing Materials
Table 5-C: Facility-Wide MPTE - HAP Emissions from HAP-Containing Materials	☐ Yes ☐ No		Table 5-C: Facility-Wide MPTE - HAP Emissions from HAP-Containing Materials
Table 5-D: Maximum Potential to Emit and Operating Permit Thresholds	☐ Yes ☐ No		Table 5-D: Maximum Potential to Emit and Operating Permit Thresholds
Section 6: Determination Of Source Class	☐ Yes ☐ No		Section 6: Determination Of Source Class
Table 6-A: Source-Elected Throughput Limits and Emission Control Requirements	☐ Yes ☐ No		Table 6-A: Source-Elected Throughput Limits and Emission Control Requirements
Table 7-A: Facility-Wide APTE – Regulated Air Pollutant Emissions	☐ Yes ☐ No		Table 7-A: Facility-Wide APTE – Regulated Air Pollutant Emissions
Table 7-B: Facility-Wide APTE – VOC Emissions from VOC-Containing Materials	☐ Yes ☐ No		Table 7-B: Facility-Wide APTE – VOC Emissions from VOC-Containing Materials
Table 7-C: Facility-Wide APTE – HAP Emissions from HAP-Containing Materials	☐ Yes ☐ No		Table 7-C: Facility-Wide APTE – HAP Emissions from HAP-Containing Materials
Table 7-D: Actual Potential to Emit and Operating Permit Thresholds	☐ Yes ☐ No		Table 7-D: Actual Potential to Emit and Operating Permit Thresholds
Section 8: Permit Shield	☐ Yes ☐ No		Section 8: Permit Shield
Section 9: Applicable Rules And Requirements	☐ Yes ☐ No		Section 9: Applicable Rules And Requirements
Section 10: Compliance Plan	☐ Yes ☐ No		Section 10: Compliance Plan
Table 10-A: Compliance Schedule	☐ Yes ☐ No	Not applicable.	Table 10-A: Compliance Schedule

TRUE FALSE TRUE TRUE FALSE TRUE TRUE

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FALSE TRUE TRUE

ED_006001_00001468-00083

Greenhouse Gas (GHG) and their Global Warming Potentials (GWP)

GHG Pollutant Name	CAS No.	Chemical Formula	Aliases	100-yr GWP
Carbon Dioxide	124-38-9	CO_2		1
Methane	74-82-8	CH_4		25
Nitrous Oxide	10024-97-2	N_2O		298
Sulfur Hexafluoride	2551-62-4	SF_6		22,800
Trifluoromethyl sulphur pentafluoride*	373-80-8	SF_5CF_3		17,700
Nitrogen trifluoride*	7783-54-2	NF_3		17,200
HCFE-235da2*	26675-46-7	$CHF_2OCHClCF_3$	Isoflurane	350
(Octafluorotetramethy-lene) hydroxymethyl group*	NA	$X-(CF_2)_4CH(OH)-X$		73
Bis(trifluoromethyl)-methanol*	920-66-1	$(CF_3)_2CHOH$		195
2,2,3,3,3-pentafluoropropanol*	422-05-9	$CF_3CF_2CH_2OH$		42
PFPMIE*	NA	$CF_3OCF(CF_3)CF_2OCF_2OCF_3$	HT-70	10,300

Perfluorocarbons (PFCs)

GHG Pollutant Name	CAS No.	Chemical Formula	Aliases	100-yr GWP
PFC-14	75-73-0	CF_4	Perfluoromethane, CFC-14, Freon 14, Halon 14, R-14, and Tetrafluoromethane	7,390
PFC-116	76-16-4	C_2F_6	Perfluoroethane, CFC-116, R-116, Ethfluorane, Halocarbon, and Hexafluoroethane	12,200
PFC-218	76-19-7	C_3F_8	Perfluoropropane, Freon 218, RC-218, R-218, and Octafluoropropane	8,830
Perfluorocyclopropane	931-91-9	$C-C_3F_6$		17,340
PFC-3-1-10	355-25-9	C_4F_{10}	Perfluorobutane, R-610, Halocarbon 610, and Decafluorobutane	8,860
PFC-318	115-25-3	$C-C_4F_8$	Perfluorocyclobutane, Freon-C-31,8 and Octafluorocyclobutane	10,300
PFC-4-1-12	678-26-2	C_5F_{12}	Perfluoropentane, R-41(12), Perflenapent, and Dodecafluoropentane	9,160
PFC-5-1-14	355-42-0	C_6F_{14}	Perfluorohexane, FC-72, Perfluoro-compound FC-72, and Tetradecafluorohexane	9,300
PFC-9-1-18	306-94-5	$C_{10}F_{18}$		7,500

Hydrofluorocarbons (HFCs)

GHG Pollutant Name	CAS No.	Chemical Formula	Aliases	100-yr GWP
HFC-23	75-46-7	CHF_3	R-23, Trifluoromethane, or Fluoroform	14,800
HFC-32	75-10-5	CH_2F_2	R-32, or Difluoromethane	675
HFC-41	593-53-3	CH_3F	R-41, or Fluoromethane	92
HFC-125	354-33-6	C_2HF_5	1,1,1,2,2-Pentafluoroethane, and Pentafluoroethane	3,500
HFC-134	359-35-3	$C_2H_2F_4$	1,1,2,2-Tetrafluoroethane	1,100
HFC-134a	811-97-2	CH_2FCF_3	R-134a, Genetron 134a, Suva 134a, and 1,1,1,2-Tetrafluoroethane	1,430
HFC-143	430-66-0	$C_2H_3F_3$	1,1,2-Trifluoroethane and 112TFA	353
HFC-143a	420-46-2	$C_2H_3F_3$	R-143a, 1,1,1-Trifluoroethane, and Trifluoroethane	4,470
HFC-152	624-72-6	CH_2FCH_2F		53
HFC-152a	75-37-6	CH_3CHF_2	R-152a, Freon 152a, 1,1-Difluoroethane, and Difluoroethane	124
HFC-161	353-36-6	CH_3CH_2F		12
HFC-227ea	431-89-0	C_3HF_7	1,1,1,2,3,3,3-Heptafluoropropane, and Heptafluoropropane	3,220
HFC-236cb	677-56-5	$CH_2FCF_2CF_3$		1,340
HFC-236ea	431-63-0	CHF_2CHFCF_3		1,370
HFC-236fa	690-39-1	$C_3H_2F_6$	FE-36, 1,1,1,3,3,3-Hexafluoropropane, and Hexafluoropropane	9,810
HFC-245ca	679-86-7	$C_3H_3F_5$	1,1,2,2,3-Pentafluoropropane	693
HFC-245fa	460-73-1	$CHF_2CH_2CF_3$		1,030
HFC-365mfc	406-58-6	$CH_3CF_2CH_2CF_3$		794
HFC-43-10mee	138495-42-8	$CF_3CFHCFHCF_2CF_3$	1,1,1,2,2,3,4,5,5,5-Decafluoropentane, and Decafluoropentane	1,640

Hydrofluoroethers (HFEs)

GHG Pollutant Name	CAS No.	Chemical Formula	Aliases	100-yr GWP
HFE-43-10pccc*	E1730133	$CHF_2OCF_2OC_2F_4OCHF$	H-Galden 1040x, HG-11	1,870
HFE-125*	3822-68-2	CHF_2OCF_3		14,900
HFE-134*	1691-17-4	CHF_2OCHF_2		6,320
HFE-143a*	421-14-7	CH_3OCF_3		756
HFE-227ea*	2356-62-9	$CF_3CHFOCF_3$		1,540
HFE-236ca12*	78522-47-1	$CHF_2OCF_2OCHF_2$	HG-10	2,800
HFE-236ea2*	57041-67-5	$CHF_2OCHFCF_3$	Desflurane	989
HFE-236fa*	20193-67-3	$CF_3CH_2OCF_3$		487
HFE-245cb2*	22410-44-2	$CH_3OCF_2CF_3$		708
HFE-245fa1*	84011-15-4	$CHF_2CH_2OCF_3$		286
HFE-245fa2*	1885-48-9	$CHF_2OCH_2CF_3$		659
HFE-254cb2*	425-88-7	$CH_3OCF_2CHF_2$		359
HFE-263fb2*	460-43-5	$CF_3CH_2OCH_3$		11
HFE-329mcc2*	134769-21-4	$CF_3CF_2OCF_2CHF_2$		919
HFE-338mcf2*	156053-88-2	$CF_3CF_2OCH_2CF_3$		552
HFE-338pcc13*	188690-78-0	$CHF_2OCF_2CF_2OCHF_2$	HG-01	1,500
HFE-347mcc3*	375-03-1	$CH_3OCF_2CF_2CF_3$	HFE-7000	575
HFE-347mcf2*	171182-95-9	$CF_3CF_2OCH_2CHF_2$		374
HFE-347pcf2*	406-78-0	$CHF_2CF_2OCH_2CF_3$		580
HFE-356mec3*	382-34-3	$CH_3OCF_2CHFCF_3$		101
HFE-356pcc3*	160620-20-2	$CH_3OCF_2CF_2CHF_2$		110
HFE-356pcf2*	50807-77-7	$CHF_2CH_2OCF_2CHF_2$		265
HFE-356pcf3*	35042-99-0	$CHF_2OCH_2CF_2CHF_2$		502
HFE-365mcf3*	378-16-5	$CF_3CF_2CH_2OCH_3$		11
HFE-374pc2*	512-51-6	$CH_3CH_2OCF_2CHF_2$		557
HFE-449s1*	163702-07-6	$C_4F_9OCH_3$	HFE-7100	297
HFE-449s1 (Chemical Blend)*	163702-08-7	$(CF_3)_2CFCF_2OCH_3$	HFE-7100 (Chemical Blend)	297
HFE-569sf2*	163702-05-4	$C_4F_9OC_2H_5$	HFE-7200	59
HFE-569sf2 (Chemical Blend)*	163702-06-5	$(CF_3)_2CFCF_2OC_2H_5$	HFE-7200 (Chemical Blend)	59
HFE-347mmz1*	28523-86-6	$CH_3FOCH(CF_3)_2$	Sevoflurane	345
HFE-356mm1*	13171-18-1	$(CF_3)_2CHOCH_3$		27
HFE-338mmz1*	26103-08-2	$CHF_2OCH(CF_3)_2$		380
HFE-347mmy1*	22052-84-2	$CH_3OCF(CF_3)_2$		343

The pollutants and GWP values presented herein are derived from 40 CFR Part 98 Table A-1, as revised on November 29, 2013.

Names followed by an asterisk (*) denote pollutants that are only GHGs subject to the Greenhouse Gas Mandatory Reporting Rule set forth in 40 CFR Part 98. These are not GHGs regulated by the PSD & Title V Greenhouse Gas Tailoring Rule. Do not include these pollutants in your CO_2e calculations.

Hazardous Air Pollutants and CA

Sorted by Pollutant Name

Pollutant Name	CAS #	VOC (Yes or No)	CAS #
1,1,1-Trichloroethane	71-55-6	No	-17-1
1,1,2,2-Tetrachloroethane	79-34-5	Yes	50-00-0
1,1,2-Trichloroethane	79-00-5	Yes	51-28-5
1,1-Dichloroethane	75-34-3	Yes	51-79-6
1,1-Dichloroethylene	75-35-4	Yes	53-96-3
1,1-Dimethyl hydrazine	57-14-7	Yes	56-23-5
1,2,4-Trichlorobenzene	120-82-1	Yes	56-38-2
1,2-Dibromo-3-chloropropane	96-12-8	Yes	57-12-5
1,2-Dichloropropane	78-87-5	Yes	57-14-7
1,2-Diphenylhydrazine	122-66-7	Yes	57-57-8
1,2-Epoxybutane	106-88-7	Yes	57-74-9
1,2-Propylenimine	75-55-8	Yes	58-89-9
1,3-Butadiene	106-99-0	Yes	59-89-2
1,3-Dichloropropene	542-75-6	Yes	60-11-7
1,3-Propane sultone	1120-71-4	No	60-34-4
1,4-Dichlorobenzene(p)	106-46-7	Yes	60-35-5
1,4-Dioxane	123-91-1	Yes	62-53-3
2,2,4-Trimethylpentane	540-84-1	Yes	62-73-7
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	No	62-75-9
2,4,5-Trichlorophenol	95-95-4	Yes	63-25-2
2,4,6-Trichlorophenol	88-06-2	Yes	64-67-5
2,4-D (salts and esters)	94-75-7	Yes	67-56-1
2,4-Dinitrophenol	51-28-5	Yes	67-66-3
2,4-Dinitrotoluene	121-14-2	Yes	67-72-1
2,4-Toluene diamine	95-80-7	Yes	68-12-2
2,4-Toluene diisocyanate	584-84-9	Yes	71-43-2
2-Acetylaminofluorene	53-96-3	Yes	71-55-6
2-Chloroacetophenone	532-27-4	Yes	72-43-5
2-Nitropropane	79-46-9	Yes	74-83-9
3,3-Dichlorobenzidene	91-94-1	Yes	74-87-3
3,3-Dimethoxybenzidine	119-90-4	Yes	74-88-4
3,3'-Dimethyl benzidine	119-93-7	Yes	75-00-3
4,4-Methylene bis(2-chloroaniline)	101-14-4	No	75-01-4
4,4'-Methylenedianiline	101-77-9	No	75-05-8
4,6-Dinitro-o-cresol, and salts	534-52-1	No	75-07-0
4-Aminobiphenyl	92-67-1	Yes	75-09-2
4-Nitrobiphenyl	92-93-3	Yes	75-15-0
4-Nitrophenol	100-02-7	Yes	75-21-8
Acetaldehyde	75-07-0	Yes	75-25-2
Acetamide	60-35-5	Yes	75-34-3
Acetonitrile	75-05-8	Yes	75-35-4
Acetophenone	98-86-2	Yes	75-44-5

S Numbers
Sorted by CAS Number

Pollutant Name	VOC (Yes or No)
Glycol ethers	No
Formaldehyde	Yes
2,4-Dinitrophenol	Yes
Ethyl carbamate	No
2-Acetylaminofluorene	Yes
Carbon tetrachloride	Yes
Parathion	Yes
Cyanide	No
1,1-Dimethyl hydrazine	Yes
beta-Propiolactone	Yes
Chlordane	Yes
Lindane (all isomers)	No
N-Nitrosomorpholine	Yes
Dimethyl aminoazobenzene	Yes
Methyl hydrazine	Yes
Acetamide	Yes
Aniline	Yes
Dichlorvos	Yes
N-Nitrosodimethylamine	Yes
Carbaryl	No
Diethyl sulfate	Yes
Methanol	Yes
Chloroform	Yes
Hexachloroethane	No
Dimethyl formamide	Yes
Benzene	Yes
1,1,1-Trichloroethane	No
Methoxychlor	Yes
Methyl bromide	Yes
Chloromethane	Yes
Methyl iodide	Yes
Ethyl chloride	Yes
Vinyl chloride	Yes
Acetonitrile	Yes
Acetaldehyde	Yes
Methylene chloride	No
Carbon disulfide	Yes
Ethylene oxide	Yes
Bromoform	Yes
1,1-Dichloroethane	Yes
1,1-Dichloroethylene	Yes
Phosgene	Yes

Acrolein	107-02-8	Yes	75-55-8
Acrylamide	79-06-1	Yes	75-56-9
Acrylic acid	79-10-7	Yes	76-44-8
Acrylonitrile	107-13-1	Yes	77-47-4
Allyl chloride	107-05-1	Yes	77-78-1
Aniline	62-53-3	Yes	78-59-1
Antimony	7440-36-0	No	78-87-5
Arsenic	7440-38-2	No	79-00-5
Asbestos	1332-21-4	No	79-01-6
Benzene	71-43-2	Yes	79-06-1
Benzidine	92-87-5	Yes	79-10-7
Benzotrichloride	98-07-7	Yes	79-11-8
Benzyl chloride	100-44-7	Yes	79-34-5
Beryllium	7440-41-7	No	79-44-7
beta-Propiolactone	57-57-8	Yes	79-46-9
Biphenyl	92-52-4	Yes	80-62-6
Bis(chloromethyl)ether	542-88-1	Yes	82-68-8
Bromoform	75-25-2	Yes	84-74-2
Cadmium	7440-43-9	No	85-44-9
Calcium cyanamide	156-62-7	No	87-68-3
Captan	133-06-2	No	87-86-5
Carbaryl	63-25-2	No	88-06-2
Carbon disulfide	75-15-0	Yes	90-04-0
Carbon tetrachloride	56-23-5	Yes	91-20-3
Carbonyl sulfide	463-58-1	Yes	91-22-5
Catechol	120-80-9	Yes	91-94-1
Chloramben	133-90-4	No	92-52-4
Chlordane	57-74-9	Yes	92-67-1
Chlorine	7782-50-5	No	92-87-5
Chloroacetic acid	79-11-8	Yes	92-93-3
Chlorobenzene	108-90-7	Yes	94-75-7
Chlorobenzilate	510-15-6	Yes	95-47-6
Chloroform	67-66-3	Yes	95-48-7
Chloromethane	74-87-3	Yes	95-53-4
Chloromethyl methyl ether	107-30-2	Yes	95-80-7
Chloroprene	126-99-8	Yes	95-95-4
Chromium	7440-47-3	No	96-09-3
Cobalt	7440-48-4	No	96-12-8
Cresols/Cresylic acid	1319-77-3	Yes	96-45-7
Cumene	98-82-8	Yes	98-07-7
Cyanide	57-12-5	No	98-82-8
DDE	3547-04-4	Yes	98-86-2
Diazomethane	334-88-3	Yes	98-95-3
Dibenzofurans	132-64-9	No	100-02-7
Dibutylphthalate	84-74-2	Yes	100-41-4
Dichloroethyl ether	111-44-4	Yes	100-42-5
Dichlorvos	62-73-7	Yes	100-44-7

1,2-Propylenimine	Yes
Propylene oxide	Yes
Heptachlor	Yes
Hexachlorocyclopentadiene	Yes
Dimethyl sulfate	Yes
Isophorone	Yes
1,2-Dichloropropane	Yes
1,1,2-Trichloroethane	Yes
Trichloroethylene	Yes
Acrylamide	Yes
Acrylic acid	Yes
Chloroacetic acid	Yes
1,1,2,2-Tetrachloroethane	Yes
Dimethyl carbamoyl chloride	Yes
2-Nitropropane	Yes
Methyl methacrylate	Yes
Pentachloronitrobenzene	Yes
Dibutylphthalate	Yes
Phthalic anhydride	No
Hexachlorobutadiene	Yes
Pentachlorophenol	Yes
2,4,6-Trichlorophenol	Yes
o-Anisidine	Yes
Naphthalene	Yes
Quinoline	Yes
3,3-Dichlorobenzidene	Yes
Biphenyl	Yes
4-Aminobiphenyl	Yes
Benzidine	Yes
4-Nitrobiphenyl	Yes
2,4-D (salts and esters)	Yes
o-Xylenes	Yes
o-Cresol	Yes
o-Toluidine	Yes
2,4-Toluene diamine	Yes
2,4,5-Trichlorophenol	Yes
Styrene oxide	Yes
1,2-Dibromo-3-chloropropane	Yes
Ethylene thiourea	No
Benzotrichloride	Yes
Cumene	Yes
Acetophenone	Yes
Nitrobenzene	Yes
4-Nitrophenol	Yes
Ethyl benzene	Yes
Styrene	Yes
Benzyl chloride	Yes

Diethanolamine	111-42-2	Yes		101-14-4
Diethyl sulfate	64-67-5	Yes		101-68-8
Diethylhexylphthalate	117-81-7	Yes		101-77-9
Dimethyl aminoazobenzene	60-11-7	Yes		106-42-3
Dimethyl carbamoyl chloride	79-44-7	Yes		106-44-5
Dimethyl formamide	68-12-2	Yes		106-46-7
Dimethyl phthalate	131-11-3	Yes		106-50-3
Dimethyl sulfate	77-78-1	Yes		106-51-4
Epichlorohydrin	106-89-8	Yes		106-88-7
Ethyl acrylate	140-88-5	Yes		106-89-8
Ethyl benzene	100-41-4	Yes		106-93-4
Ethyl carbamate	51-79-6	No		106-99-0
Ethyl chloride	75-00-3	Yes		107-02-8
Ethylene dibromide	106-93-4	Yes		107-05-1
Ethylene dichloride	107-06-2	Yes		107-06-2
Ethylene glycol	107-21-1	Yes		107-13-1
Ethylene imine	151-56-4	Yes		107-21-1
Ethylene oxide	75-21-8	Yes		107-30-2
Ethylene thiourea	96-45-7	No		108-05-4
Formaldehyde	50-00-0	Yes		108-10-1
Glycol ethers	-17-1	No		108-31-6
Heptachlor	76-44-8	Yes		108-38-3
Hexachlorobenzene	118-74-1	No		108-39-4
Hexachlorobutadiene	87-68-3	Yes		108-88-3
Hexachlorocyclopentadiene	77-47-4	Yes		108-90-7
Hexachloroethane	67-72-1	No		108-95-2
Hexamethylene-1,6-diisocyanate	822-06-0	No		110-54-3
Hexamethylphosphoramide	680-31-9	No		111-42-2
Hexane	110-54-3	Yes		111-44-4
Hydrazine	302-01-2	No		114-26-1
Hydrochloric acid	7647-01-0	No		117-81-7
Hydrogen fluoride	7664-39-3	No		118-74-1
Hydroquinone	123-31-9	Yes		119-90-4
Isophorone	78-59-1	Yes		119-93-7
Lead	7439-92-1	No		120-80-9
Lindane (all isomers)	58-89-9	No		120-82-1
Maleic anhydride	108-31-6	No		121-14-2
Manganese	7439-96-5	No		121-44-8
m-Cresol	108-39-4	Yes		121-69-7
Mercury	7439-97-6	No		122-66-7
Methanol	67-56-1	Yes		123-31-9
Methoxychlor	72-43-5	Yes		123-38-6
Methyl bromide	74-83-9	Yes		123-91-1
Methyl hydrazine	60-34-4	Yes		126-99-8
Methyl iodide	74-88-4	Yes		127-18-4
Methyl isobutyl ketone	108-10-1	Yes		131-11-3
Methyl isocyanate	624-83-9	Yes		132-64-9

4,4-Methylene bis(2-chloroaniline)	No
Methylene diphenyl diisocyanate	No
4,4'-Methylenedianiline	No
p-Xylenes	Yes
p-Cresol	Yes
1,4-Dichlorobenzene(p)	Yes
p-Phenylenediamine	Yes
Quinone	Yes
1,2-Epoxybutane	Yes
Epichlorohydrin	Yes
Ethylene dibromide	Yes
1,3-Butadiene	Yes
Acrolein	Yes
Allyl chloride	Yes
Ethylene dichloride	Yes
Acrylonitrile	Yes
Ethylene glycol	Yes
Chloromethyl methyl ether	Yes
Vinyl acetate	Yes
Methyl isobutyl ketone	Yes
Maleic anhydride	No
m-Xylenes	Yes
m-Cresol	Yes
Toluene	Yes
Chlorobenzene	Yes
Phenol	Yes
Hexane	Yes
Diethanolamine	Yes
Dichloroethyl ether	Yes
Propoxur	No
Diethylhexylphthalate	Yes
Hexachlorobenzene	No
3,3-Dimethoxybenzidine	Yes
3,3'-Dimethyl benzidine	Yes
Catechol	Yes
1,2,4-Trichlorobenzene	Yes
2,4-Dinitrotoluene	Yes
Triethylamine	Yes
N,N-Dimethylaniline	Yes
1,2-Diphenylhydrazine	Yes
Hydroquinone	Yes
Propionaldehyde	Yes
1,4-Dioxane	Yes
Chloroprene	Yes
Perchloroethylene	No
Dimethyl phthalate	Yes
Dibenzofurans	No

Methyl methacrylate	80-62-6	Yes	133-06-2
Methyl tert butyl ether	1634-04-4	Yes	133-90-4
Methylene chloride	75-09-2	No	140-88-5
Methylene diphenyl diisocyanate	101-68-8	No	151-56-4
m-Xylenes	108-38-3	Yes	156-62-7
N,N-Dimethylaniline	121-69-7	Yes	302-01-2
Naphthalene	91-20-3	Yes	334-88-3
Nickel	7440-02-0	No	463-58-1
Nitrobenzene	98-95-3	Yes	510-15-6
N-Nitrosodimethylamine	62-75-9	Yes	532-27-4
N-Nitrosomorpholine	59-89-2	Yes	534-52-1
N-Nitroso-N-methylurea	684-93-5	Yes	540-84-1
o-Anisidine	90-04-0	Yes	542-75-6
o-Cresol	95-48-7	Yes	542-88-1
o-Toluidine	95-53-4	Yes	584-84-9
o-Xylenes	95-47-6	Yes	593-60-2
Parathion	56-38-2	Yes	624-83-9
p-Cresol	106-44-5	Yes	680-31-9
Pentachloronitrobenzene	82-68-8	Yes	684-93-5
Pentachlorophenol	87-86-5	Yes	822-06-0
Perchloroethylene	127-18-4	No	1120-71-4
Phenol	108-95-2	Yes	1319-77-3
Phosgene	75-44-5	Yes	1330-20-7
Phosphine	7803-51-2	No	1332-21-4
Phosphorus	7723-14-0	No	1336-36-3
Phthalic anhydride	85-44-9	No	1582-09-8
Polychlorinated biphenyls	1336-36-3	Yes	1634-04-4
p-Phenylenediamine	106-50-3	Yes	1746-01-6
Propionaldehyde	123-38-6	Yes	3547-04-4
Propoxur	114-26-1	No	7439-92-1
Propylene oxide	75-56-9	Yes	7439-96-5
p-Xylenes	106-42-3	Yes	7439-97-6
Quinoline	91-22-5	Yes	7440-02-0
Quinone	106-51-4	Yes	7440-36-0
Selenium	7782-49-2	No	7440-38-2
Styrene	100-42-5	Yes	7440-41-7
Styrene oxide	96-09-3	Yes	7440-43-9
Titanium tetrachloride	7550-45-0	No	7440-47-3
Toluene	108-88-3	Yes	7440-48-4
Toxaphene	8001-35-2	No	7550-45-0
Trichloroethylene	79-01-6	Yes	7647-01-0
Triethylamine	121-44-8	Yes	7664-39-3
Trifluralin	1582-09-8	No	7723-14-0
Vinyl acetate	108-05-4	Yes	7782-49-2
Vinyl bromide	593-60-2	Yes	7782-50-5
Vinyl chloride	75-01-4	Yes	7803-51-2

Captan	No
Chloramben	No
Ethyl acrylate	Yes
Ethylene imine	Yes
Calcium cyanamide	No
Hydrazine	No
Diazomethane	Yes
Carbonyl sulfide	Yes
Chlorobenzilate	Yes
2-Chloroacetophenone	Yes
4,6-Dinitro-o-cresol, and salts	No
2,2,4-Trimethylpentane	Yes
1,3-Dichloropropene	Yes
Bis(chloromethyl)ether	Yes
2,4-Toluene diisocyanate	Yes
Vinyl bromide	Yes
Methyl isocyanate	Yes
Hexamethylphosphoramide	No
N-Nitroso-N-methylurea	Yes
Hexamethylene-1,6-diisocyanate	No
1,3-Propane sultone	No
Cresols/Cresylic acid	Yes
Xylenes (isomers and mixture)	Yes
Asbestos	No
Polychlorinated biphenyls	Yes
Trifluralin	No
Methyl tert butyl ether	Yes
2,3,7,8-Tetrachlorodibenzo-p-dioxin	No
DDE	Yes
Lead	No
Manganese	No
Mercury	No
Nickel	No
Antimony	No
Arsenic	No
Beryllium	No
Cadmium	No
Chromium	No
Cobalt	No
Titanium tetrachloride	No
Hydrochloric acid	No
Hydrogen fluoride	No
Phosphorus	No
Selenium	No
Chlorine	No
Phosphine	No

Xylenes (isomers and mixture)	1330-20-7	Yes	8001-35-2

Toxaphene	No

2012 NAICS Code	2012 NAICS Title
111110	Soybean Farming
111120	Oilseed (except Soybean) Farming
111130	Dry Pea and Bean Farming
111140	Wheat Farming
111150	Corn Farming
111160	Rice Farming
111191	Oilseed and Grain Combination Farming
111199	All Other Grain Farming
111211	Potato Farming
111219	Other Vegetable (except Potato) and Melon Farming
111310	Orange Groves
111320	Citrus (except Orange) Groves
111331	Apple Orchards
111332	Grape Vineyards
111333	Strawberry Farming
111334	Berry (except Strawberry) Farming
111335	Tree Nut Farming
111336	Fruit and Tree Nut Combination Farming
111339	Other Noncitrus Fruit Farming
111411	Mushroom Production
111419	Other Food Crops Grown Under Cover
111421	Nursery and Tree Production
111422	Floriculture Production
111910	Tobacco Farming
111920	Cotton Farming
111930	Sugarcane Farming
111940	Hay Farming
111991	Sugar Beet Farming
111992	Peanut Farming
111998	All Other Miscellaneous Crop Farming
112111	Beef Cattle Ranching and Farming
112112	Cattle Feedlots

112120	Dairy Cattle and Milk Production
112130	Dual-Purpose Cattle Ranching and Farming
112210	Hog and Pig Farming
112310	Chicken Egg Production
112320	Broilers and Other Meat Type Chicken Production
112330	Turkey Production
112340	Poultry Hatcheries
112390	Other Poultry Production
112410	Sheep Farming
112420	Goat Farming
112511	Finfish Farming and Fish Hatcheries
112512	Shellfish Farming
112519	Other Aquaculture
112910	Apiculture
112920	Horses and Other Equine Production
112930	Fur-Bearing Animal and Rabbit Production
112990	All Other Animal Production
113110	Timber Tract Operations
113210	Forest Nurseries and Gathering of Forest Products
113310	Logging
114111	Finfish Fishing
114112	Shellfish Fishing
114119	Other Marine Fishing
114210	Hunting and Trapping
115111	Cotton Ginning
115112	Soil Preparation, Planting, and Cultivating
115113	Crop Harvesting, Primarily by Machine
115114	Postharvest Crop Activities (except Cotton Ginning)
115115	Farm Labor Contractors and Crew Leaders
115116	Farm Management Services
115210	Support Activities for Animal Production
115310	Support Activities for Forestry
211111	Crude Petroleum and Natural Gas Extraction
211112	Natural Gas Liquid Extraction

212111	Bituminous Coal and Lignite Surface Mining
212112	Bituminous Coal Underground Mining
212113	Anthracite Mining
212210	Iron Ore Mining
212221	Gold Ore Mining
212222	Silver Ore Mining
212231	Lead Ore and Zinc Ore Mining
212234	Copper Ore and Nickel Ore Mining
212291	Uranium-Radium-Vanadium Ore Mining
212299	All Other Metal Ore Mining
212311	Dimension Stone Mining and Quarrying
212312	Crushed and Broken Limestone Mining and Quarrying
212313	Crushed and Broken Granite Mining and Quarrying
212319	Other Crushed and Broken Stone Mining and Quarrying
212321	Construction Sand and Gravel Mining
212322	Industrial Sand Mining
212324	Kaolin and Ball Clay Mining
212325	Clay and Ceramic and Refractory Minerals Mining
212391	Potash, Soda, and Borate Mineral Mining
212392	Phosphate Rock Mining
212393	Other Chemical and Fertilizer Mineral Mining
212399	All Other Nonmetallic Mineral Mining
213111	Drilling Oil and Gas Wells
213112	Support Activities for Oil and Gas Operations
213113	Support Activities for Coal Mining
213114	Support Activities for Metal Mining
213115	Support Activities for Nonmetallic Minerals (except Fuels) Mining
221111	Hydroelectric Power Generation
221112	Fossil Fuel Electric Power Generation
221113	Nuclear Electric Power Generation
221114	Solar Electric Power Generation
221115	Wind Electric Power Generation
221116	Geothermal Electric Power Generation
221117	Biomass Electric Power Generation

221118	Other Electric Power Generation
221121	Electric Bulk Power Transmission and Control
221122	Electric Power Distribution
221210	Natural Gas Distribution
221310	Water Supply and Irrigation Systems
221320	Sewage Treatment Facilities
221330	Steam and Air-Conditioning Supply
236115	New Single-Family Housing Construction (except For-Sale Builders)
236116	New Multifamily Housing Construction (except For-Sale Builders)
236117	New Housing For-Sale Builders
236118	Residential Remodelers
236210	Industrial Building Construction
236220	Commercial and Institutional Building Construction
237110	Water and Sewer Line and Related Structures Construction
237120	Oil and Gas Pipeline and Related Structures Construction
237130	Power and Communication Line and Related Structures Construction
237210	Land Subdivision
237310	Highway, Street, and Bridge Construction
237990	Other Heavy and Civil Engineering Construction
238110	Poured Concrete Foundation and Structure Contractors
238120	Structural Steel and Precast Concrete Contractors
238130	Framing Contractors
238140	Masonry Contractors
238150	Glass and Glazing Contractors
238160	Roofing Contractors
238170	Siding Contractors
238190	Other Foundation, Structure, and Building Exterior Contractors
238210	Electrical Contractors and Other Wiring Installation Contractors
238220	Plumbing, Heating, and Air-Conditioning Contractors
238290	Other Building Equipment Contractors
238310	Drywall and Insulation Contractors
238320	Painting and Wall Covering Contractors
238330	Flooring Contractors
238340	Tile and Terrazzo Contractors

238350	Finish Carpentry Contractors
238390	Other Building Finishing Contractors
238910	Site Preparation Contractors
238990	All Other Specialty Trade Contractors
311111	Dog and Cat Food Manufacturing
311119	Other Animal Food Manufacturing
311211	Flour Milling
311212	Rice Milling
311213	Malt Manufacturing
311221	Wet Corn Milling
311224	Soybean and Other Oilseed Processing
311225	Fats and Oils Refining and Blending
311230	Breakfast Cereal Manufacturing
311313	Beet Sugar Manufacturing
311314	Cane Sugar Manufacturing
311340	Nonchocolate Confectionery Manufacturing
311351	Chocolate and Confectionery Manufacturing from Cacao Beans
311352	Confectionery Manufacturing from Purchased Chocolate
311411	Frozen Fruit, Juice, and Vegetable Manufacturing
311412	Frozen Specialty Food Manufacturing
311421	Fruit and Vegetable Canning
311422	Specialty Canning
311423	Dried and Dehydrated Food Manufacturing
311511	Fluid Milk Manufacturing
311512	Creamery Butter Manufacturing
311513	Cheese Manufacturing
311514	Dry, Condensed, and Evaporated Dairy Product Manufacturing
311520	Ice Cream and Frozen Dessert Manufacturing
311611	Animal (except Poultry) Slaughtering
311612	Meat Processed from Carcasses
311613	Rendering and Meat Byproduct Processing
311615	Poultry Processing
311710	Seafood Product Preparation and Packaging
311811	Retail Bakeries

311812	Commercial Bakeries
311813	Frozen Cakes, Pies, and Other Pastries Manufacturing
311821	Cookie and Cracker Manufacturing
311824	Dry Pasta, Dough, and Flour Mixes Manufacturing from Purchased Flour
311830	Tortilla Manufacturing
311911	Roasted Nuts and Peanut Butter Manufacturing
311919	Other Snack Food Manufacturing
311920	Coffee and Tea Manufacturing
311930	Flavoring Syrup and Concentrate Manufacturing
311941	Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing
311942	Spice and Extract Manufacturing
311991	Perishable Prepared Food Manufacturing
311999	All Other Miscellaneous Food Manufacturing
312111	Soft Drink Manufacturing
312112	Bottled Water Manufacturing
312113	Ice Manufacturing
312120	Breweries
312130	Wineries
312140	Distilleries
312230	Tobacco Manufacturing
313110	Fiber, Yarn, and Thread Mills
313210	Broadwoven Fabric Mills
313220	Narrow Fabric Mills and Schiffli Machine Embroidery
313230	Nonwoven Fabric Mills
313240	Knit Fabric Mills
313310	Textile and Fabric Finishing Mills
313320	Fabric Coating Mills
314110	Carpet and Rug Mills
314120	Curtain and Linen Mills
314910	Textile Bag and Canvas Mills
314994	Rope, Cordage, Twine, Tire Cord, and Tire Fabric Mills
314999	All Other Miscellaneous Textile Product Mills
315110	Hosiery and Sock Mills
315190	Other Apparel Knitting Mills

315210	Cut and Sew Apparel Contractors
315220	Men's and Boys' Cut and Sew Apparel Manufacturing
315240	Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing
315280	Other Cut and Sew Apparel Manufacturing
315990	Apparel Accessories and Other Apparel Manufacturing
316110	Leather and Hide Tanning and Finishing
316210	Footwear Manufacturing
316992	Women's Handbag and Purse Manufacturing
316998	All Other Leather Good and Allied Product Manufacturing
321113	Sawmills
321114	Wood Preservation
321211	Hardwood Veneer and Plywood Manufacturing
321212	Softwood Veneer and Plywood Manufacturing
321213	Engineered Wood Member (except Truss) Manufacturing
321214	Truss Manufacturing
321219	Reconstituted Wood Product Manufacturing
321911	Wood Window and Door Manufacturing
321912	Cut Stock, Resawing Lumber, and Planing
321918	Other Millwork (including Flooring)
321920	Wood Container and Pallet Manufacturing
321991	Manufactured Home (Mobile Home) Manufacturing
321992	Prefabricated Wood Building Manufacturing
321999	All Other Miscellaneous Wood Product Manufacturing
322110	Pulp Mills
322121	Paper (except Newsprint) Mills
322122	Newsprint Mills
322130	Paperboard Mills
322211	Corrugated and Solid Fiber Box Manufacturing
322212	Folding Paperboard Box Manufacturing
322219	Other Paperboard Container Manufacturing
322220	Paper Bag and Coated and Treated Paper Manufacturing
322230	Stationery Product Manufacturing
322291	Sanitary Paper Product Manufacturing
322299	All Other Converted Paper Product Manufacturing

323111	Commercial Printing (except Screen and Books)
323113	Commercial Screen Printing
323117	Books Printing
323120	Support Activities for Printing
324110	Petroleum Refineries
324121	Asphalt Paving Mixture and Block Manufacturing
324122	Asphalt Shingle and Coating Materials Manufacturing
324191	Petroleum Lubricating Oil and Grease Manufacturing
324199	All Other Petroleum and Coal Products Manufacturing
325110	Petrochemical Manufacturing
325120	Industrial Gas Manufacturing
325130	Synthetic Dye and Pigment Manufacturing
325180	Other Basic Inorganic Chemical Manufacturing
325193	Ethyl Alcohol Manufacturing
325194	Cyclic Crude, Intermediate, and Gum and Wood Chemical Manufacturing
325199	All Other Basic Organic Chemical Manufacturing
325211	Plastics Material and Resin Manufacturing
325212	Synthetic Rubber Manufacturing
325220	Artificial and Synthetic Fibers and Filaments Manufacturing
325311	Nitrogenous Fertilizer Manufacturing
325312	Phosphatic Fertilizer Manufacturing
325314	Fertilizer (Mixing Only) Manufacturing
325320	Pesticide and Other Agricultural Chemical Manufacturing
325411	Medicinal and Botanical Manufacturing
325412	Pharmaceutical Preparation Manufacturing
325413	In-Vitro Diagnostic Substance Manufacturing
325414	Biological Product (except Diagnostic) Manufacturing
325510	Paint and Coating Manufacturing
325520	Adhesive Manufacturing
325611	Soap and Other Detergent Manufacturing
325612	Polish and Other Sanitation Good Manufacturing
325613	Surface Active Agent Manufacturing
325620	Toilet Preparation Manufacturing
325910	Printing Ink Manufacturing

325920	Explosives Manufacturing
325991	Custom Compounding of Purchased Resins
325992	Photographic Film, Paper, Plate, and Chemical Manufacturing
325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing
326111	Plastics Bag and Pouch Manufacturing
326112	Plastics Packaging Film and Sheet (including Laminated) Manufacturing
326113	Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing
326121	Unlaminated Plastics Profile Shape Manufacturing
326122	Plastics Pipe and Pipe Fitting Manufacturing
326130	Laminated Plastics Plate, Sheet (except Packaging), and Shape Manufacturing
326140	Polystyrene Foam Product Manufacturing
326150	Urethane and Other Foam Product (except Polystyrene) Manufacturing
326160	Plastics Bottle Manufacturing
326191	Plastics Plumbing Fixture Manufacturing
326199	All Other Plastics Product Manufacturing
326211	Tire Manufacturing (except Retreading)
326212	Tire Retreading
326220	Rubber and Plastics Hoses and Belting Manufacturing
326291	Rubber Product Manufacturing for Mechanical Use
326299	All Other Rubber Product Manufacturing
327110	Pottery, Ceramics, and Plumbing Fixture Manufacturing
327120	Clay Building Material and Refractories Manufacturing
327211	Flat Glass Manufacturing
327212	Other Pressed and Blown Glass and Glassware Manufacturing
327213	Glass Container Manufacturing
327215	Glass Product Manufacturing Made of Purchased Glass
327310	Cement Manufacturing
327320	Ready-Mix Concrete Manufacturing
327331	Concrete Block and Brick Manufacturing
327332	Concrete Pipe Manufacturing
327390	Other Concrete Product Manufacturing
327410	Lime Manufacturing
327420	Gypsum Product Manufacturing
327910	Abrasive Product Manufacturing

327991	Cut Stone and Stone Product Manufacturing
327992	Ground or Treated Mineral and Earth Manufacturing
327993	Mineral Wool Manufacturing
327999	All Other Miscellaneous Nonmetallic Mineral Product Manufacturing
331110	Iron and Steel Mills and Ferroalloy Manufacturing
331210	Iron and Steel Pipe and Tube Manufacturing from Purchased Steel
331221	Rolled Steel Shape Manufacturing
331222	Steel Wire Drawing
331313	Alumina Refining and Primary Aluminum Production
331314	Secondary Smelting and Alloying of Aluminum
331315	Aluminum Sheet, Plate, and Foil Manufacturing
331318	Other Aluminum Rolling, Drawing, and Extruding
331410	Nonferrous Metal (except Aluminum) Smelting and Refining
331420	Copper Rolling, Drawing, Extruding, and Alloying
331491	Nonferrous Metal (except Copper and Aluminum) Rolling, Drawing, and Extruding
331492	Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum)
331511	Iron Foundries
331512	Steel Investment Foundries
331513	Steel Foundries (except Investment)
331523	Nonferrous Metal Die-Casting Foundries
331524	Aluminum Foundries (except Die-Casting)
331529	Other Nonferrous Metal Foundries (except Die-Casting)
332111	Iron and Steel Forging
332112	Nonferrous Forging
332114	Custom Roll Forming
332117	Powder Metallurgy Part Manufacturing
332119	Metal Crown, Closure, and Other Metal Stamping (except Automotive)
332215	Metal Kitchen Cookware, Utensil, Cutlery, and Flatware (except Precious) Manufacturing
332216	Saw Blade and Handtool Manufacturing
332311	Prefabricated Metal Building and Component Manufacturing
332312	Fabricated Structural Metal Manufacturing
332313	Plate Work Manufacturing
332321	Metal Window and Door Manufacturing
332322	Sheet Metal Work Manufacturing

332323	Ornamental and Architectural Metal Work Manufacturing
332410	Power Boiler and Heat Exchanger Manufacturing
332420	Metal Tank (Heavy Gauge) Manufacturing
332431	Metal Can Manufacturing
332439	Other Metal Container Manufacturing
332510	Hardware Manufacturing
332613	Spring Manufacturing
332618	Other Fabricated Wire Product Manufacturing
332710	Machine Shops
332721	Precision Turned Product Manufacturing
332722	Bolt, Nut, Screw, Rivet, and Washer Manufacturing
332811	Metal Heat Treating
332812	Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers
332813	Electroplating, Plating, Polishing, Anodizing, and Coloring
332911	Industrial Valve Manufacturing
332912	Fluid Power Valve and Hose Fitting Manufacturing
332913	Plumbing Fixture Fitting and Trim Manufacturing
332919	Other Metal Valve and Pipe Fitting Manufacturing
332991	Ball and Roller Bearing Manufacturing
332992	Small Arms Ammunition Manufacturing
332993	Ammunition (except Small Arms) Manufacturing
332994	Small Arms, Ordnance, and Ordnance Accessories Manufacturing
332996	Fabricated Pipe and Pipe Fitting Manufacturing
332999	All Other Miscellaneous Fabricated Metal Product Manufacturing
333111	Farm Machinery and Equipment Manufacturing
333112	Lawn and Garden Tractor and Home Lawn and Garden Equipment Manufacturing
333120	Construction Machinery Manufacturing
333131	Mining Machinery and Equipment Manufacturing
333132	Oil and Gas Field Machinery and Equipment Manufacturing
333241	Food Product Machinery Manufacturing
333242	Semiconductor Machinery Manufacturing
333243	Sawmill, Woodworking, and Paper Machinery Manufacturing
333244	Printing Machinery and Equipment Manufacturing
333249	Other Industrial Machinery Manufacturing

333314	Optical Instrument and Lens Manufacturing
333316	Photographic and Photocopying Equipment Manufacturing
333318	Other Commercial and Service Industry Machinery Manufacturing
333413	Industrial and Commercial Fan and Blower and Air Purification Equipment Manufacturing
333414	Heating Equipment (except Warm Air Furnaces) Manufacturing
333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing
333511	Industrial Mold Manufacturing
333514	Special Die and Tool, Die Set, Jig, and Fixture Manufacturing
333515	Cutting Tool and Machine Tool Accessory Manufacturing
333517	Machine Tool Manufacturing
333519	Rolling Mill and Other Metalworking Machinery Manufacturing
333611	Turbine and Turbine Generator Set Units Manufacturing
333612	Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing
333613	Mechanical Power Transmission Equipment Manufacturing
333618	Other Engine Equipment Manufacturing
333911	Pump and Pumping Equipment Manufacturing
333912	Air and Gas Compressor Manufacturing
333913	Measuring and Dispensing Pump Manufacturing
333921	Elevator and Moving Stairway Manufacturing
333922	Conveyor and Conveying Equipment Manufacturing
333923	Overhead Traveling Crane, Hoist, and Monorail System Manufacturing
333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing
333991	Power-Driven Handtool Manufacturing
333992	Welding and Soldering Equipment Manufacturing
333993	Packaging Machinery Manufacturing
333994	Industrial Process Furnace and Oven Manufacturing
333995	Fluid Power Cylinder and Actuator Manufacturing
333996	Fluid Power Pump and Motor Manufacturing
333997	Scale and Balance Manufacturing
333999	All Other Miscellaneous General Purpose Machinery Manufacturing
334111	Electronic Computer Manufacturing
334112	Computer Storage Device Manufacturing
334118	Computer Terminal and Other Computer Peripheral Equipment Manufacturing
334210	Telephone Apparatus Manufacturing

334220	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
334290	Other Communications Equipment Manufacturing
334310	Audio and Video Equipment Manufacturing
334412	Bare Printed Circuit Board Manufacturing
334413	Semiconductor and Related Device Manufacturing
334416	Capacitor, Resistor, Coil, Transformer, and Other Inductor Manufacturing
334417	Electronic Connector Manufacturing
334418	Printed Circuit Assembly (Electronic Assembly) Manufacturing
334419	Other Electronic Component Manufacturing
334510	Electromedical and Electrotherapeutic Apparatus Manufacturing
334511	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing
334512	Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use
334513	Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables
334514	Totalizing Fluid Meter and Counting Device Manufacturing
334515	Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals
334516	Analytical Laboratory Instrument Manufacturing
334517	Irradiation Apparatus Manufacturing
334519	Other Measuring and Controlling Device Manufacturing
334613	Blank Magnetic and Optical Recording Media Manufacturing
334614	Software and Other Prerecorded Compact Disc, Tape, and Record Reproducing
335110	Electric Lamp Bulb and Part Manufacturing
335121	Residential Electric Lighting Fixture Manufacturing
335122	Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing
335129	Other Lighting Equipment Manufacturing
335210	Small Electrical Appliance Manufacturing
335221	Household Cooking Appliance Manufacturing
335222	Household Refrigerator and Home Freezer Manufacturing
335224	Household Laundry Equipment Manufacturing
335228	Other Major Household Appliance Manufacturing
335311	Power, Distribution, and Specialty Transformer Manufacturing
335312	Motor and Generator Manufacturing
335313	Switchgear and Switchboard Apparatus Manufacturing
335314	Relay and Industrial Control Manufacturing
335911	Storage Battery Manufacturing

335912	Primary Battery Manufacturing
335921	Fiber Optic Cable Manufacturing
335929	Other Communication and Energy Wire Manufacturing
335931	Current-Carrying Wiring Device Manufacturing
335932	Noncurrent-Carrying Wiring Device Manufacturing
335991	Carbon and Graphite Product Manufacturing
335999	All Other Miscellaneous Electrical Equipment and Component Manufacturing
336111	Automobile Manufacturing
336112	Light Truck and Utility Vehicle Manufacturing
336120	Heavy Duty Truck Manufacturing
336211	Motor Vehicle Body Manufacturing
336212	Truck Trailer Manufacturing
336213	Motor Home Manufacturing
336214	Travel Trailer and Camper Manufacturing
336310	Motor Vehicle Gasoline Engine and Engine Parts Manufacturing
336320	Motor Vehicle Electrical and Electronic Equipment Manufacturing
336330	Motor Vehicle Steering and Suspension Components (except Spring) Manufacturing
336340	Motor Vehicle Brake System Manufacturing
336350	Motor Vehicle Transmission and Power Train Parts Manufacturing
336360	Motor Vehicle Seating and Interior Trim Manufacturing
336370	Motor Vehicle Metal Stamping
336390	Other Motor Vehicle Parts Manufacturing
336411	Aircraft Manufacturing
336412	Aircraft Engine and Engine Parts Manufacturing
336413	Other Aircraft Parts and Auxiliary Equipment Manufacturing
336414	Guided Missile and Space Vehicle Manufacturing
336415	Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing
336419	Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing
336510	Railroad Rolling Stock Manufacturing
336611	Ship Building and Repairing
336612	Boat Building
336991	Motorcycle, Bicycle, and Parts Manufacturing
336992	Military Armored Vehicle, Tank, and Tank Component Manufacturing
336999	All Other Transportation Equipment Manufacturing

337110	Wood Kitchen Cabinet and Countertop Manufacturing
337121	Upholstered Household Furniture Manufacturing
337122	Nonupholstered Wood Household Furniture Manufacturing
337124	Metal Household Furniture Manufacturing
337125	Household Furniture (except Wood and Metal) Manufacturing
337127	Institutional Furniture Manufacturing
337211	Wood Office Furniture Manufacturing
337212	Custom Architectural Woodwork and Millwork Manufacturing
337214	Office Furniture (except Wood) Manufacturing
337215	Showcase, Partition, Shelving, and Locker Manufacturing
337910	Mattress Manufacturing
337920	Blind and Shade Manufacturing
339112	Surgical and Medical Instrument Manufacturing
339113	Surgical Appliance and Supplies Manufacturing
339114	Dental Equipment and Supplies Manufacturing
339115	Ophthalmic Goods Manufacturing
339116	Dental Laboratories
339910	Jewelry and Silverware Manufacturing
339920	Sporting and Athletic Goods Manufacturing
339930	Doll, Toy, and Game Manufacturing
339940	Office Supplies (except Paper) Manufacturing
339950	Sign Manufacturing
339991	Gasket, Packing, and Sealing Device Manufacturing
339992	Musical Instrument Manufacturing
339993	Fastener, Button, Needle, and Pin Manufacturing
339994	Broom, Brush, and Mop Manufacturing
339995	Burial Casket Manufacturing
339999	All Other Miscellaneous Manufacturing
423110	Automobile and Other Motor Vehicle Merchant Wholesalers
423120	Motor Vehicle Supplies and New Parts Merchant Wholesalers
423130	Tire and Tube Merchant Wholesalers
423140	Motor Vehicle Parts (Used) Merchant Wholesalers
423210	Furniture Merchant Wholesalers
423220	Home Furnishing Merchant Wholesalers

423310	Lumber, Plywood, Millwork, and Wood Panel Merchant Wholesalers
423320	Brick, Stone, and Related Construction Material Merchant Wholesalers
423330	Roofing, Siding, and Insulation Material Merchant Wholesalers
423390	Other Construction Material Merchant Wholesalers
423410	Photographic Equipment and Supplies Merchant Wholesalers
423420	Office Equipment Merchant Wholesalers
423430	Computer and Computer Peripheral Equipment and Software Merchant Wholesalers
423440	Other Commercial Equipment Merchant Wholesalers
423450	Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers
423460	Ophthalmic Goods Merchant Wholesalers
423490	Other Professional Equipment and Supplies Merchant Wholesalers
423510	Metal Service Centers and Other Metal Merchant Wholesalers
423520	Coal and Other Mineral and Ore Merchant Wholesalers
423610	Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers
423620	Household Appliances, Electric Housewares, and Consumer Electronics Merchant Wholesalers
423690	Other Electronic Parts and Equipment Merchant Wholesalers
423710	Hardware Merchant Wholesalers
423720	Plumbing and Heating Equipment and Supplies (Hydronics) Merchant Wholesalers
423730	Warm Air Heating and Air-Conditioning Equipment and Supplies Merchant Wholesalers
423740	Refrigeration Equipment and Supplies Merchant Wholesalers
423810	Construction and Mining (except Oil Well) Machinery and Equipment Merchant Wholesalers
423820	Farm and Garden Machinery and Equipment Merchant Wholesalers
423830	Industrial Machinery and Equipment Merchant Wholesalers
423840	Industrial Supplies Merchant Wholesalers
423850	Service Establishment Equipment and Supplies Merchant Wholesalers
423860	Transportation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers
423910	Sporting and Recreational Goods and Supplies Merchant Wholesalers
423920	Toy and Hobby Goods and Supplies Merchant Wholesalers
423930	Recyclable Material Merchant Wholesalers
423940	Jewelry, Watch, Precious Stone, and Precious Metal Merchant Wholesalers
423990	Other Miscellaneous Durable Goods Merchant Wholesalers
424110	Printing and Writing Paper Merchant Wholesalers
424120	Stationery and Office Supplies Merchant Wholesalers
424130	Industrial and Personal Service Paper Merchant Wholesalers

424210	Drugs and Druggists' Sundries Merchant Wholesalers
424310	Piece Goods, Notions, and Other Dry Goods Merchant Wholesalers
424320	Men's and Boys' Clothing and Furnishings Merchant Wholesalers
424330	Women's, Children's, and Infants' Clothing and Accessories Merchant Wholesalers
424340	Footwear Merchant Wholesalers
424410	General Line Grocery Merchant Wholesalers
424420	Packaged Frozen Food Merchant Wholesalers
424430	Dairy Product (except Dried or Canned) Merchant Wholesalers
424440	Poultry and Poultry Product Merchant Wholesalers
424450	Confectionery Merchant Wholesalers
424460	Fish and Seafood Merchant Wholesalers
424470	Meat and Meat Product Merchant Wholesalers
424480	Fresh Fruit and Vegetable Merchant Wholesalers
424490	Other Grocery and Related Products Merchant Wholesalers
424510	Grain and Field Bean Merchant Wholesalers
424520	Livestock Merchant Wholesalers
424590	Other Farm Product Raw Material Merchant Wholesalers
424610	Plastics Materials and Basic Forms and Shapes Merchant Wholesalers
424690	Other Chemical and Allied Products Merchant Wholesalers
424710	Petroleum Bulk Stations and Terminals
424720	Petroleum and Petroleum Products Merchant Wholesalers (except Bulk Stations and Terminals)
424810	Beer and Ale Merchant Wholesalers
424820	Wine and Distilled Alcoholic Beverage Merchant Wholesalers
424910	Farm Supplies Merchant Wholesalers
424920	Book, Periodical, and Newspaper Merchant Wholesalers
424930	Flower, Nursery Stock, and Florists' Supplies Merchant Wholesalers
424940	Tobacco and Tobacco Product Merchant Wholesalers
424950	Paint, Varnish, and Supplies Merchant Wholesalers
424990	Other Miscellaneous Nondurable Goods Merchant Wholesalers
425110	Business to Business Electronic Markets
425120	Wholesale Trade Agents and Brokers
441110	New Car Dealers
441120	Used Car Dealers
441210	Recreational Vehicle Dealers

441222	Boat Dealers
441228	Motorcycle, ATV, and All Other Motor Vehicle Dealers
441310	Automotive Parts and Accessories Stores
441320	Tire Dealers
442110	Furniture Stores
442210	Floor Covering Stores
442291	Window Treatment Stores
442299	All Other Home Furnishings Stores
443141	Household Appliance Stores
443142	Electronics Stores
444110	Home Centers
444120	Paint and Wallpaper Stores
444130	Hardware Stores
444190	Other Building Material Dealers
444210	Outdoor Power Equipment Stores
444220	Nursery, Garden Center, and Farm Supply Stores
445110	Supermarkets and Other Grocery (except Convenience) Stores
445120	Convenience Stores
445210	Meat Markets
445220	Fish and Seafood Markets
445230	Fruit and Vegetable Markets
445291	Baked Goods Stores
445292	Confectionery and Nut Stores
445299	All Other Specialty Food Stores
445310	Beer, Wine, and Liquor Stores
446110	Pharmacies and Drug Stores
446120	Cosmetics, Beauty Supplies, and Perfume Stores
446130	Optical Goods Stores
446191	Food (Health) Supplement Stores
446199	All Other Health and Personal Care Stores
447110	Gasoline Stations with Convenience Stores
447190	Other Gasoline Stations
448110	Men's Clothing Stores
448120	Women's Clothing Stores

448130	Children's and Infants' Clothing Stores
448140	Family Clothing Stores
448150	Clothing Accessories Stores
448190	Other Clothing Stores
448210	Shoe Stores
448310	Jewelry Stores
448320	Luggage and Leather Goods Stores
451110	Sporting Goods Stores
451120	Hobby, Toy, and Game Stores
451130	Sewing, Needlework, and Piece Goods Stores
451140	Musical Instrument and Supplies Stores
451211	Book Stores
451212	News Dealers and Newsstands
452111	Department Stores (except Discount Department Stores)
452112	Discount Department Stores
452910	Warehouse Clubs and Supercenters
452990	All Other General Merchandise Stores
453110	Florists
453210	Office Supplies and Stationery Stores
453220	Gift, Novelty, and Souvenir Stores
453310	Used Merchandise Stores
453910	Pet and Pet Supplies Stores
453920	Art Dealers
453930	Manufactured (Mobile) Home Dealers
453991	Tobacco Stores
453998	All Other Miscellaneous Store Retailers (except Tobacco Stores)
454111	Electronic Shopping
454112	Electronic Auctions
454113	Mail-Order Houses
454210	Vending Machine Operators
454310	Fuel Dealers
454390	Other Direct Selling Establishments
481111	Scheduled Passenger Air Transportation
481112	Scheduled Freight Air Transportation

481211	Nonscheduled Chartered Passenger Air Transportation
481212	Nonscheduled Chartered Freight Air Transportation
481219	Other Nonscheduled Air Transportation
482111	Line-Haul Railroads
482112	Short Line Railroads
483111	Deep Sea Freight Transportation
483112	Deep Sea Passenger Transportation
483113	Coastal and Great Lakes Freight Transportation
483114	Coastal and Great Lakes Passenger Transportation
483211	Inland Water Freight Transportation
483212	Inland Water Passenger Transportation
484110	General Freight Trucking, Local
484121	General Freight Trucking, Long-Distance, Truckload
484122	General Freight Trucking, Long-Distance, Less Than Truckload
484210	Used Household and Office Goods Moving
484220	Specialized Freight (except Used Goods) Trucking, Local
484230	Specialized Freight (except Used Goods) Trucking, Long-Distance
485111	Mixed Mode Transit Systems
485112	Commuter Rail Systems
485113	Bus and Other Motor Vehicle Transit Systems
485119	Other Urban Transit Systems
485210	Interurban and Rural Bus Transportation
485310	Taxi Service
485320	Limousine Service
485410	School and Employee Bus Transportation
485510	Charter Bus Industry
485991	Special Needs Transportation
485999	All Other Transit and Ground Passenger Transportation
486110	Pipeline Transportation of Crude Oil
486210	Pipeline Transportation of Natural Gas
486910	Pipeline Transportation of Refined Petroleum Products
486990	All Other Pipeline Transportation
487110	Scenic and Sightseeing Transportation, Land
487210	Scenic and Sightseeing Transportation, Water

487990	Scenic and Sightseeing Transportation, Other
488111	Air Traffic Control
488119	Other Airport Operations
488190	Other Support Activities for Air Transportation
488210	Support Activities for Rail Transportation
488310	Port and Harbor Operations
488320	Marine Cargo Handling
488330	Navigational Services to Shipping
488390	Other Support Activities for Water Transportation
488410	Motor Vehicle Towing
488490	Other Support Activities for Road Transportation
488510	Freight Transportation Arrangement
488991	Packing and Crating
488999	All Other Support Activities for Transportation
491110	Postal Service
492110	Couriers and Express Delivery Services
492210	Local Messengers and Local Delivery
493110	General Warehousing and Storage
493120	Refrigerated Warehousing and Storage
493130	Farm Product Warehousing and Storage
493190	Other Warehousing and Storage
511110	Newspaper Publishers
511120	Periodical Publishers
511130	Book Publishers
511140	Directory and Mailing List Publishers
511191	Greeting Card Publishers
511199	All Other Publishers
511210	Software Publishers
512110	Motion Picture and Video Production
512120	Motion Picture and Video Distribution
512131	Motion Picture Theaters (except Drive-Ins)
512132	Drive-In Motion Picture Theaters
512191	Teleproduction and Other Postproduction Services
512199	Other Motion Picture and Video Industries

512210	Record Production
512220	Integrated Record Production/Distribution
512230	Music Publishers
512240	Sound Recording Studios
512290	Other Sound Recording Industries
515111	Radio Networks
515112	Radio Stations
515120	Television Broadcasting
515210	Cable and Other Subscription Programming
517110	Wired Telecommunications Carriers
517210	Wireless Telecommunications Carriers (except Satellite)
517410	Satellite Telecommunications
517911	Telecommunications Resellers
517919	All Other Telecommunications
518210	Data Processing, Hosting, and Related Services
519110	News Syndicates
519120	Libraries and Archives
519130	Internet Publishing and Broadcasting and Web Search Portals
519190	All Other Information Services
521110	Monetary Authorities-Central Bank
522110	Commercial Banking
522120	Savings Institutions
522130	Credit Unions
522190	Other Depository Credit Intermediation
522210	Credit Card Issuing
522220	Sales Financing
522291	Consumer Lending
522292	Real Estate Credit
522293	International Trade Financing
522294	Secondary Market Financing
522298	All Other Nondepository Credit Intermediation
522310	Mortgage and Nonmortgage Loan Brokers
522320	Financial Transactions Processing, Reserve, and Clearinghouse Activities
522390	Other Activities Related to Credit Intermediation

523110	Investment Banking and Securities Dealing
523120	Securities Brokerage
523130	Commodity Contracts Dealing
523140	Commodity Contracts Brokerage
523210	Securities and Commodity Exchanges
523910	Miscellaneous Intermediation
523920	Portfolio Management
523930	Investment Advice
523991	Trust, Fiduciary, and Custody Activities
523999	Miscellaneous Financial Investment Activities
524113	Direct Life Insurance Carriers
524114	Direct Health and Medical Insurance Carriers
524126	Direct Property and Casualty Insurance Carriers
524127	Direct Title Insurance Carriers
524128	Other Direct Insurance (except Life, Health, and Medical) Carriers
524130	Reinsurance Carriers
524210	Insurance Agencies and Brokerages
524291	Claims Adjusting
524292	Third Party Administration of Insurance and Pension Funds
524298	All Other Insurance Related Activities
525110	Pension Funds
525120	Health and Welfare Funds
525190	Other Insurance Funds
525910	Open-End Investment Funds
525920	Trusts, Estates, and Agency Accounts
525990	Other Financial Vehicles
531110	Lessors of Residential Buildings and Dwellings
531120	Lessors of Nonresidential Buildings (except Miniwarehouses)
531130	Lessors of Miniwarehouses and Self-Storage Units
531190	Lessors of Other Real Estate Property
531210	Offices of Real Estate Agents and Brokers
531311	Residential Property Managers
531312	Nonresidential Property Managers
531320	Offices of Real Estate Appraisers

531390	Other Activities Related to Real Estate
532111	Passenger Car Rental
532112	Passenger Car Leasing
532120	Truck, Utility Trailer, and RV (Recreational Vehicle) Rental and Leasing
532210	Consumer Electronics and Appliances Rental
532220	Formal Wear and Costume Rental
532230	Video Tape and Disc Rental
532291	Home Health Equipment Rental
532292	Recreational Goods Rental
532299	All Other Consumer Goods Rental
532310	General Rental Centers
532411	Commercial Air, Rail, and Water Transportation Equipment Rental and Leasing
532412	Construction, Mining, and Forestry Machinery and Equipment Rental and Leasing
532420	Office Machinery and Equipment Rental and Leasing
532490	Other Commercial and Industrial Machinery and Equipment Rental and Leasing
533110	Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)
541110	Offices of Lawyers
541120	Offices of Notaries
541191	Title Abstract and Settlement Offices
541199	All Other Legal Services
541211	Offices of Certified Public Accountants
541213	Tax Preparation Services
541214	Payroll Services
541219	Other Accounting Services
541310	Architectural Services
541320	Landscape Architectural Services
541330	Engineering Services
541340	Drafting Services
541350	Building Inspection Services
541360	Geophysical Surveying and Mapping Services
541370	Surveying and Mapping (except Geophysical) Services
541380	Testing Laboratories
541410	Interior Design Services
541420	Industrial Design Services

541430	Graphic Design Services
541490	Other Specialized Design Services
541511	Custom Computer Programming Services
541512	Computer Systems Design Services
541513	Computer Facilities Management Services
541519	Other Computer Related Services
541611	Administrative Management and General Management Consulting Services
541612	Human Resources Consulting Services
541613	Marketing Consulting Services
541614	Process, Physical Distribution, and Logistics Consulting Services
541618	Other Management Consulting Services
541620	Environmental Consulting Services
541690	Other Scientific and Technical Consulting Services
541711	Research and Development in Biotechnology
541712	Research and Development in the Physical, Engineering, and Life Sciences (except Biotechnology)
541720	Research and Development in the Social Sciences and Humanities
541810	Advertising Agencies
541820	Public Relations Agencies
541830	Media Buying Agencies
541840	Media Representatives
541850	Outdoor Advertising
541860	Direct Mail Advertising
541870	Advertising Material Distribution Services
541890	Other Services Related to Advertising
541910	Marketing Research and Public Opinion Polling
541921	Photography Studios, Portrait
541922	Commercial Photography
541930	Translation and Interpretation Services
541940	Veterinary Services
541990	All Other Professional, Scientific, and Technical Services
551111	Offices of Bank Holding Companies
551112	Offices of Other Holding Companies
551114	Corporate, Subsidiary, and Regional Managing Offices
561110	Office Administrative Services

561210	Facilities Support Services
561311	Employment Placement Agencies
561312	Executive Search Services
561320	Temporary Help Services
561330	Professional Employer Organizations
561410	Document Preparation Services
561421	Telephone Answering Services
561422	Telemarketing Bureaus and Other Contact Centers
561431	Private Mail Centers
561439	Other Business Service Centers (including Copy Shops)
561440	Collection Agencies
561450	Credit Bureaus
561491	Repossession Services
561492	Court Reporting and Stenotype Services
561499	All Other Business Support Services
561510	Travel Agencies
561520	Tour Operators
561591	Convention and Visitors Bureaus
561599	All Other Travel Arrangement and Reservation Services
561611	Investigation Services
561612	Security Guards and Patrol Services
561613	Armored Car Services
561621	Security Systems Services (except Locksmiths)
561622	Locksmiths
561710	Exterminating and Pest Control Services
561720	Janitorial Services
561730	Landscaping Services
561740	Carpet and Upholstery Cleaning Services
561790	Other Services to Buildings and Dwellings
561910	Packaging and Labeling Services
561920	Convention and Trade Show Organizers
561990	All Other Support Services
562111	Solid Waste Collection
562112	Hazardous Waste Collection

562119	Other Waste Collection
562211	Hazardous Waste Treatment and Disposal
562212	Solid Waste Landfill
562213	Solid Waste Combustors and Incinerators
562219	Other Nonhazardous Waste Treatment and Disposal
562910	Remediation Services
562920	Materials Recovery Facilities
562991	Septic Tank and Related Services
562998	All Other Miscellaneous Waste Management Services
611110	Elementary and Secondary Schools
611210	Junior Colleges
611310	Colleges, Universities, and Professional Schools
611410	Business and Secretarial Schools
611420	Computer Training
611430	Professional and Management Development Training
611511	Cosmetology and Barber Schools
611512	Flight Training
611513	Apprenticeship Training
611519	Other Technical and Trade Schools
611610	Fine Arts Schools
611620	Sports and Recreation Instruction
611630	Language Schools
611691	Exam Preparation and Tutoring
611692	Automobile Driving Schools
611699	All Other Miscellaneous Schools and Instruction
611710	Educational Support Services
621111	Offices of Physicians (except Mental Health Specialists)
621112	Offices of Physicians, Mental Health Specialists
621210	Offices of Dentists
621310	Offices of Chiropractors
621320	Offices of Optometrists
621330	Offices of Mental Health Practitioners (except Physicians)
621340	Offices of Physical, Occupational and Speech Therapists, and Audiologists
621391	Offices of Podiatrists

621399	Offices of All Other Miscellaneous Health Practitioners
621410	Family Planning Centers
621420	Outpatient Mental Health and Substance Abuse Centers
621491	HMO Medical Centers
621492	Kidney Dialysis Centers
621493	Freestanding Ambulatory Surgical and Emergency Centers
621498	All Other Outpatient Care Centers
621511	Medical Laboratories
621512	Diagnostic Imaging Centers
621610	Home Health Care Services
621910	Ambulance Services
621991	Blood and Organ Banks
621999	All Other Miscellaneous Ambulatory Health Care Services
622110	General Medical and Surgical Hospitals
622210	Psychiatric and Substance Abuse Hospitals
622310	Specialty (except Psychiatric and Substance Abuse) Hospitals
623110	Nursing Care Facilities (Skilled Nursing Facilities)
623210	Residential Intellectual and Developmental Disability Facilities
623220	Residential Mental Health and Substance Abuse Facilities
623311	Continuing Care Retirement Communities
623312	Assisted Living Facilities for the Elderly
623990	Other Residential Care Facilities
624110	Child and Youth Services
624120	Services for the Elderly and Persons with Disabilities
624190	Other Individual and Family Services
624210	Community Food Services
624221	Temporary Shelters
624229	Other Community Housing Services
624230	Emergency and Other Relief Services
624310	Vocational Rehabilitation Services
624410	Child Day Care Services
711110	Theater Companies and Dinner Theaters
711120	Dance Companies
711130	Musical Groups and Artists

711190	Other Performing Arts Companies
711211	Sports Teams and Clubs
711212	Racetracks
711219	Other Spectator Sports
711310	Promoters of Performing Arts, Sports, and Similar Events with Facilities
711320	Promoters of Performing Arts, Sports, and Similar Events without Facilities
711410	Agents and Managers for Artists, Athletes, Entertainers, and Other Public Figures
711510	Independent Artists, Writers, and Performers
712110	Museums
712120	Historical Sites
712130	Zoos and Botanical Gardens
712190	Nature Parks and Other Similar Institutions
713110	Amusement and Theme Parks
713120	Amusement Arcades
713210	Casinos (except Casino Hotels)
713290	Other Gambling Industries
713910	Golf Courses and Country Clubs
713920	Skiing Facilities
713930	Marinas
713940	Fitness and Recreational Sports Centers
713950	Bowling Centers
713990	All Other Amusement and Recreation Industries
721110	Hotels (except Casino Hotels) and Motels
721120	Casino Hotels
721191	Bed-and-Breakfast Inns
721199	All Other Traveler Accommodation
721211	RV (Recreational Vehicle) Parks and Campgrounds
721214	Recreational and Vacation Camps (except Campgrounds)
721310	Rooming and Boarding Houses
722310	Food Service Contractors
722320	Caterers
722330	Mobile Food Services
722410	Drinking Places (Alcoholic Beverages)
722511	Full-Service Restaurants

722513	Limited-Service Restaurants
722514	Cafeterias, Grill Buffets, and Buffets
722515	Snack and Nonalcoholic Beverage Bars
811111	General Automotive Repair
811112	Automotive Exhaust System Repair
811113	Automotive Transmission Repair
811118	Other Automotive Mechanical and Electrical Repair and Maintenance
811121	Automotive Body, Paint, and Interior Repair and Maintenance
811122	Automotive Glass Replacement Shops
811191	Automotive Oil Change and Lubrication Shops
811192	Car Washes
811198	All Other Automotive Repair and Maintenance
811211	Consumer Electronics Repair and Maintenance
811212	Computer and Office Machine Repair and Maintenance
811213	Communication Equipment Repair and Maintenance
811219	Other Electronic and Precision Equipment Repair and Maintenance
811310	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance
811411	Home and Garden Equipment Repair and Maintenance
811412	Appliance Repair and Maintenance
811420	Reupholstery and Furniture Repair
811430	Footwear and Leather Goods Repair
811490	Other Personal and Household Goods Repair and Maintenance
812111	Barber Shops
812112	Beauty Salons
812113	Nail Salons
812191	Diet and Weight Reducing Centers
812199	Other Personal Care Services
812210	Funeral Homes and Funeral Services
812220	Cemeteries and Crematories
812310	Coin-Operated Laundries and Drycleaners
812320	Drycleaning and Laundry Services (except Coin-Operated)
812331	Linen Supply
812332	Industrial Launderers
812910	Pet Care (except Veterinary) Services

812921	Photofinishing Laboratories (except One-Hour)
812922	One-Hour Photofinishing
812930	Parking Lots and Garages
812990	All Other Personal Services
813110	Religious Organizations
813211	Grantmaking Foundations
813212	Voluntary Health Organizations
813219	Other Grantmaking and Giving Services
813311	Human Rights Organizations
813312	Environment, Conservation and Wildlife Organizations
813319	Other Social Advocacy Organizations
813410	Civic and Social Organizations
813910	Business Associations
813920	Professional Organizations
813930	Labor Unions and Similar Labor Organizations
813940	Political Organizations
813990	Other Similar Organizations (except Business, Professional, Labor, and Political Organizations)
814110	Private Households
921110	Executive Offices
921120	Legislative Bodies
921130	Public Finance Activities
921140	Executive and Legislative Offices, Combined
921150	American Indian and Alaska Native Tribal Governments
921190	Other General Government Support
922110	Courts
922120	Police Protection
922130	Legal Counsel and Prosecution
922140	Correctional Institutions
922150	Parole Offices and Probation Offices
922160	Fire Protection
922190	Other Justice, Public Order, and Safety Activities
923110	Administration of Education Programs
923120	Administration of Public Health Programs
923130	Administration of Human Resource Programs (except Education, Public Health, and Veterans' Affairs Programs)

923140	Administration of Veterans' Affairs
924110	Administration of Air and Water Resource and Solid Waste Management Programs
924120	Administration of Conservation Programs
925110	Administration of Housing Programs
925120	Administration of Urban Planning and Community and Rural Development
926110	Administration of General Economic Programs
926120	Regulation and Administration of Transportation Programs
926130	Regulation and Administration of Communications, Electric, Gas, and Other Utilities
926140	Regulation of Agricultural Marketing and Commodities
926150	Regulation, Licensing, and Inspection of Miscellaneous Commercial Sectors
927110	Space Research and Technology
928110	National Security
928120	International Affairs

Control Device	Control Code	Control Efficiency %								
		PM_{10}	$PM_{2.5}$	NOx	SOx	VOC	CO	GHGs	Lead	Total HAP
2x/Week Sweeping (Roads)	008	50%	50%	-	-	-	-	-	-	-
Chemical Stabilizer (Roads)	009	50%	50%	-	-	-	-	-	-	-
Cyclone	002	60%	60%	-	-	-	-	-	40%	-
Fabric Filter	001	95%	95%	-	-	-	-	-	80%	-
Fabric Filter + Cyclone	003	98%	98%	-	-	-	-	-	85%	-
Flare	012	-	-	-	-	90%	-	-	-	90%
HEPA Filter	010	99%	99%	-	-	-	-	-	90%	-
Oil Spray (Grain Dust)	007	50%	50%	-	-	-	-	-	-	-
Other	999	-	-	-	-	-	-	-	-	-
Process Fully Enclosed	005	90%	90%	-	-	-	-	-	-	-
Process Partial Enclosed	004	40%	40%	-	-	-	-	-	-	-
Steam or Water Injection	013	-	-	65%	-	-	-	-	-	-
Thermal Oxidizer	011	-	-	-	-	95%	-	-	-	95%
Water Spray (Dust)	006	50%	50%	-	-	-	-	-	-	-

Control Code	Control Device	Control Efficiency %								
		PM_{10}	$PM_{2.5}$	NOx	SOx	VOC	CO	GHGs	Lead	Total HAP
001	Fabric Filter	95%	95%	-	-	-	-	-	80%	-
002	Cyclone	60%	60%	-	-	-	-	-	40%	-
003	Fabric Filter + Cyclone	98%	98%	-	-	-	-	-	85%	-
004	Process Partial Enclosed	40%	40%	-	-	-	-	-	-	-
005	Process Fully Enclosed	90%	90%	-	-	-	-	-	-	-
006	Water Spray (Dust)	50%	50%	-	-	-	-	-	-	-
007	Oil Spray (Grain Dust)	50%	50%	-	-	-	-	-	-	-
008	2x/Week Sweeping (Roads)	50%	50%	-	-	-	-	-	-	-
009	Chemical Stabilizer (Roads)	50%	50%	-	-	-	-	-	-	-
010	HEPA Filter	99%	99%	-	-	-	-	-	90%	-
011	Thermal Oxidizer	-	-	-	-	95%	-	-	-	95%
012	Flare	-	-	-	-	90%	-	-	-	90%
013	Steam or Water Injection	-	-	65%	-	-	-	-	-	-
999	Other	-	-	-	-	-	-	-	-	-