



## Air Quality Operating Permit Application Form

Lincoln-Lancaster County Health Department

Environmental Public Health Division - Air Quality Program

Lincoln, NE 68510

ph: (402) 441-8040

fax: (402) 441-3890

<http://www.lincoln.ne.gov/city/health/environ/air.htm>

Purpose of Application: ☐ Initial Operating Permit ☐ Operating Permit Modification  
☐ Operating Permit Renewal ☒ Revise Previously Submitted Application

### SECTION 1: ADMINISTRATIVE INFORMATION AND RESPONSIBLE OFFICIAL CERTIFICATION

#### Part A: Company Information

Company Name:	Board of Regents of the University of Nebraska-Lincoln (East Campus)		
Company Address:	3835 Holdrege St.		
Company City:	Lincoln	Company State:	Nebraska
Company ZIP:	68583		
Is the business incorporated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		


#### Part B: General Facility Information

Facility Name:	Board of Regents of the University of Nebraska-Lincoln (East Campus)		
LLCHD Facility ID #:	00014		
Facility Physical Address:	1901 North 37th St.		
Facility City:	Lincoln	Facility State:	Nebraska
Facility ZIP:	68583		
Facility NAICS Code(s):	611310	Colleges, Universities, and Professional Schools	
Is the facility located within 50 miles of another state?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If so, which state(s)?	<input checked="" type="checkbox"/> Iowa <input type="checkbox"/> Kansas <input type="checkbox"/> Missouri
Is the facility located on leased property?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

#### Part C: Contact Information

Facility Contact Person:	Brenda Osthus		
Facility Contact Person Title or Responsibility:	Director of Environmental Health & Safety		
Phone Number:	(402) 472-4927	E-Mail:	<a href="mailto:bosthus1@unl.edu">bosthus1@unl.edu</a>
Alternate Phone Number: (optional)	(402) 472-4925	Fax Number: (optional)	(402) 472-9650
Who is the primary contact for questions regarding this application?	<input type="checkbox"/> Facility Contact Person <input checked="" type="checkbox"/> Other	If other, provide the following information:	
Primary Contact Person:	Zuleika Doremus		
Primary Contact Person Company: (if different)	Environmental Health & Safety		
Phone Number:	(402) 472-9552	E-Mail:	<a href="mailto:zdoremus1@unl.edu">zdoremus1@unl.edu</a>
Alternate Phone Number: (optional)	(402) 472-4925	Fax Number: (optional)	(402) 472-9650

## SECTION 1: ADMINISTRATIVE INFORMATION AND RESPONSIBLE OFFICIAL CERTIFICATION

Part D: Permit Information			
Does this facility currently hold an operating permit issued by the LLCHD?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If so, what type of operating permit does the facility hold?	<input type="checkbox"/> Class I (Title V) - Major Source	<input type="checkbox"/> Class II - Minor Source	
	<input checked="" type="checkbox"/> Class II - Synthetic Minor Source		
What is the expiration date of the operating permit you currently hold?		2/25/2019	
Does this facility currently hold one or more construction permits issued by the LLCHD?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If so, list the numbers for all currently effective construction permits. Do not include superceded permits.	057D	171H	176
If you know what type of permit you are applying for, check the appropriate box:	<input checked="" type="checkbox"/> Class I (Title V) - Major Source	<input type="checkbox"/> Class II - Minor Source	
	<input type="checkbox"/> Class II - Synthetic Minor Source	<input type="checkbox"/> I do not know permit type.	
Part E: Responsible Official Certification			
<b>Compliance Certification</b>  <input checked="" type="checkbox"/> Agree  <input type="checkbox"/> Disagree	<p>I hereby certify that, based on information and belief formed after reasonable inquiry, the facility that emits air pollutants, which is identified in this application and that is subject to the applicable requirements identified in Section 9:</p> <p>1. Is in compliance with all applicable requirements, except as described in Section 9;</p> <p>2. Will continue to comply with all applicable requirements for which compliance has been achieved; and,</p> <p>3. Will comply with all applicable requirements for which compliance is not currently achieved</p>		
<b>Truth and Accuracy Certification</b>  <input checked="" type="checkbox"/> Agree  <input type="checkbox"/> Disagree	<p>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.</p>		
<b>Electronic Copy Certification</b>  <input checked="" type="checkbox"/> Agree  <input type="checkbox"/> Disagree  <input type="checkbox"/> Not Applicable	<p>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.</p>		
<b>Citizenship Attestation</b>  <input checked="" type="checkbox"/> Agree  <input type="checkbox"/> Disagree	<p>For the purpose of complying with Neb. Rev. Stat. §§4-108 through 4-114, I attest as follows (<u>check one</u>):</p> <p><input checked="" type="checkbox"/> I am a citizen of the United States.</p> <p>OR</p> <p><input type="checkbox"/> I am a qualified alien under the federal Immigration and Nationality Act, and will provide my immigration status, alien number, and USCIS documentation upon request.</p> <p>I hereby attest that my responses and the information provided on this form and any related application for public benefits are true, complete, and accurate, and I understand that this information may be used to verify my lawful presence in the United States.</p>		
<b>Responsible Official Name:</b> (printed or typed)	Brenda Osthus		
<b>Responsible Official Title:</b>	Director of Environmental Health & Safety		
<b>Responsible Official Signature:</b>			
<b>Date:</b>	September 2, 2025		Ver. 01/2025



## SECTION 2: DETAILED SOURCE INFORMATION

### Part A: Operating Schedule

Is this source operated seasonally, or year-round?	<input type="checkbox"/> Seasonal	<input checked="" type="checkbox"/> Year-Round	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

### Part B: New Process Description

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

Is a New Process Description attached to your application?	<input checked="" type="checkbox"/> Yes	
	<input type="checkbox"/> No	

### Part C: Process Layout Diagram

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

Is a Process Layout Diagram included with your application?	<input checked="" type="checkbox"/> Yes	
	<input type="checkbox"/> No	

### Part D: Facility Description

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

Is a Facility Description included with your application?	<input checked="" type="checkbox"/> Yes	
	<input type="checkbox"/> No	



## SECTION 2: DETAILED SOURCE INFORMATION

### Part E: Emission Calculations

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

☒ AP-42 or WebFIRE Emission Factors

☐ Emission Factors from Stack Testing \*

☐ Material Mass-Balance Calculations \*

☐ Other (specify >>>>) \*

☐ Other (specify >>>>) \*

☐ Other (specify >>>>) \*

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

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

☒ Material / Fuel Supplier Record(s)

☒ Material / Fuel Use Logbook(s)

☐ Receiving / Load-Out Scale Tickets

☒ Other (specify >>>>) Amount of waste (tpy) burned in Pathological Waste Incinerators

☐ Other (specify >>>>)

☐ Other (specify >>>>)

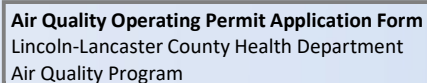
Ver. 01/2025



## 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 #			
2	1	1-03-004-02	Boiler #4 (100 MMBtu/hr)	No. 6 Fuel Oil Combustion
2	2	1-03-006-02	Boiler #4 (100 MMBtu/hr)	Natural Gas Combustion
3	1	1-03-004-02	Boiler #5 (94 MMBtu/hr)	No. 6 Fuel Oil Combustion
3	2	1-03-005-02	Boiler #5 (94 MMBtu/hr)	No. 2 Fuel Oil Combustion
3	3	1-03-006-02	Boiler #5 (94 MMBtu/hr)	Natural Gas Combustion
5	1	1-03-005-02	Boiler #6 (37.5 MMBtu/hr)	No. 2 Fuel Oil Combustion
5	2	1-03-006-02	Boiler #6 (37.5 MMBtu/hr)	Natural Gas Combustion
6	1	1-03-005-02	Boiler #7 (37.5 MMBtu/hr)	No. 2 Fuel Oil Combustion
6	2	1-03-006-02	Boiler #7 (37.5 MMBtu/hr)	Natural Gas Combustion
4	1	3-85-001-01	6,250 gal/min Cooling Tower (CT-1 TES)	Mechanical Draft
4	2	3-85-001-01	13,000 gal/min Cooling Tower (CT-2 South)	Mechanical Draft
4	3	3-85-001-01	11,000 gal/min Cooling Tower (CT-3 North)	Mechanical Draft
7	2	2-02-001-02	EEG Unit #2 - Schmid Law Library (68 hp / 35 kW)	Diesel
7	3	2-02-001-02	EEG Unit #3 - Greenhouses (188 hp / 125 kW)	Diesel
7	4	2-02-002-53	EEG Unit #4 - College of Dentistry (176 hp / 109 kW)	Natural Gas
7	6	2-02-004-01	EEG Unit #6 - Hardin Hall (Nat. Res. Bldg) (600 hp / 896 kW)	Diesel
7	7	2-02-001-02	EEG Unit #7 - BL-3 Modular Lab (352 hp / 230 kW)	Diesel
7	9	2-02-004-01	EEG Unit #9 - Morrison Center (Virology) (1200 hp / 600 kW)	Diesel
7	10	2-02-002-53	EEG Unit #10 - Barkley Memorial Center (90 hp / 60 kW)	Natural Gas
7	11	2-02-002-53	EEG Unit #11 - Kiem Hall (225 hp / 150 kW)	Natural Gas
7	12	2-02-004-01	EEG Unit #12 - Animal Science Complex (755 hp / 500 kW)	Diesel
7	13	2-02-004-01	EEG Unit #13 - Life Sciences Annex (1194 hp / 750 kW)	Diesel
7	16	2-02-001-02	EEG Unit #16 - Plant Sciences Hall (227 hp / 166 kW)	Diesel
7	17	2-02-002-53	EEG Unit #17 - E.C. Recreation & Wellness Ctr (190 hp / 125 kW)	Natural Gas
7	18	2-02-001-02	EEG Unit #18 - Food Industry Complex (320 hp / 125 kW)	Diesel
7	19	2-02-004-01	EEG Unit #19 - Quilt Study Center (1220 hp / 760 kW)	Diesel
7	20	2-02-002-53	EEG Unit #20 - Vet Diagnostic Center (176 hp / 100 kW)	Natural Gas

**Table 3-A: Emission Unit Identification**

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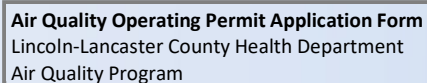


## SECTION 3 – EMISSION POINT SUMMARY

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?
2-1	Boiler #4 (100 MMBtu/hr)	40.832500	-96.668234	1,160.00	55.00	4.00	245.00	22.10	277.72	Vertical	No
2-2	Boiler #4 (100 MMBtu/hr)	40.832500	-96.668234	1,160.00	55.00	4.00	245.00	22.00	276.46	Vertical	No
3-1	Boiler #5 (94 MMBtu/hr)	40.832500	-96.668234	1,160.00	55.00	4.00	265.00	20.80	261.38	Vertical	No
3-2	Boiler #5 (94 MMBtu/hr)	40.832500	-96.668234	1,160.00	55.00	4.00	265.00	20.80	261.38	Vertical	No
3-3	Boiler #5 (94 MMBtu/hr)	40.832500	-96.668234	1,160.00	55.00	4.00	265.00	20.80	261.38	Vertical	No
5-1	Boiler #6 (37.5 MMBtu/hr)	40.832542	-96.668037	1,160.00	55.00	4.00	425.00	17.00	213.63	Vertical	No
5-2	Boiler #6 (37.5 MMBtu/hr)	40.832542	-96.668037	1,160.00	55.00	4.00	425.00	17.00	213.63	Vertical	No
6-1	Boiler #7 (37.5 MMBtu/hr)	40.832542	-96.668037	1,160.00	55.00	4.00	425.00	17.00	213.63	Vertical	No
6-2	Boiler #7 (37.5 MMBtu/hr)	40.832542	-96.668037	1,160.00	55.00	4.00	425.00	17.00	213.63	Vertical	No
4-1	6,250 gal/min Cooling Tow...									Fugitive	
4-2	13,000 gal/min Cooling To...									Fugitive	
4-3	11,000 gal/min Cooling To...									Fugitive	
7-2	EEG Unit #2 - Schmid Law ...									Fugitive	
7-3	EEG Unit #3 - Greenhouses...									Fugitive	
7-4	EEG Unit #4 - College of ...									Fugitive	
7-6	EEG Unit #6 - Hardin Hall...									Fugitive	
7-7	EEG Unit #7 - BL-3 Modula...									Fugitive	
7-9	EEG Unit #9 - Morrison Ce...									Fugitive	
7-10	EEG Unit #10 - Barkley Me...									Fugitive	
7-11	EEG Unit #11 - Kiem Hall ...									Fugitive	
7-12	EEG Unit #12 - Animal Sci...									Fugitive	
7-13	EEG Unit #13 - Life Scien...									Fugitive	
7-16	EEG Unit #16 - Plant Scie...									Fugitive	
7-17	EEG Unit #17 - E.C. Recre...									Fugitive	
7-18	EEG Unit #18 - Food Indus...									Fugitive	
7-19	EEG Unit #19 - Quilt Stud...									Fugitive	

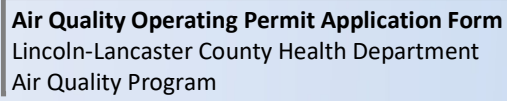


### Table 3-B: Stack / Release Point Information

\* Stack information not required for fugitive sources.

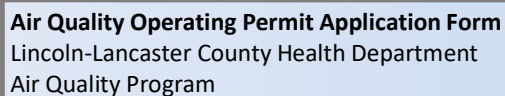
### Table 3-B | Stack Info





### Table 4-A: Insignificant Activities List

[illegible]



**Table 4-B: Insignificant Lubricating and Heavy Oil Storage Information**

[illegible]



## SECTION 5 – MAXIMUM POTENTIAL TO EMIT (MPTE)

Table 5-A: MPTE – Regulated Air Pollutant Emissions from Physical Plants and Other Equipment

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

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Emission Unit #	SCC Code	Hourly Process Rate	Process Rate Units	Max Annual Throughput	Emission Factor Source	PM <sub>10</sub>	PM <sub>2.5</sub>	NOx	SOx	VOC	CO	GHGs (CO <sub>2</sub> e)	LEAD	Total HAP
2-1	1-03-004-02	0.6680	Mgal	5,852	AP-42	199,980	199,980	199,980	199,980	199,980	199,980	1.5E+08	9,980	3,539
2-2	1-03-006-02	0.0976	MMcf	854.98	AP-42							1.0E+08		1,616
3-1	1-03-004-02	0.6280	Mgal	5,501	AP-42							1.4E+08		3,326
3-2	1-03-005-02	0.6787	Mgal	5,945	AP-42							1.3E+08		244.19
3-3	1-03-006-02	0.0906	MMcf	794.06	AP-42							9.5E+07		1,501
														-
5-1	1-03-005-02	0.2708	Mgal	2,372	AP-42							5.4E+07		97.43
5-2	1-03-006-02	0.0368	MMcf	322.37	AP-42							3.9E+07		609.28
														-
6-1	1-03-005-02	0.2708	Mgal	2,372	AP-42	5.4E+07	97.43							
6-2	1-03-006-02	0.0368	MMcf	322.37	AP-42	3.9E+07	609.28							
						The MPTE shown above for EUs 2-1 through 6-2 represents the maximum allowable annual emissions from the 'Boiler Plant' at UNL East Campus. The emission limit for these emission units is set forth in Construction Permit 26-###, and as such is a federally enforceable limit on the potential to emit.								
4-1	3-85-001-01	750.00	Mgal	6.57E+06	AP-42	547.94	547.94	-	-	-	-	-	-	-
4-2	3-85-001-01	780.00	Mgal	6.83E+06	AP-42	2,279	2,279	-	-	-	-	-	-	-
4-3	3-85-001-01	660.00	Mgal	5.78E+06	AP-42	1,929	1,929	-	-	-	-	-	-	-
7-2	2-02-001-02	0.0040	Mgal	2.00	AP-42	85.00	85.00	1,208	79.40	98.60	260.00	45,200	1.10	0.00
7-3	2-02-001-02	0.0091	Mgal	4.55	AP-42	193.38	193.38	2,748	180.64	224.32	591.50	102,830	2.50	0.00
7-4	2-02-002-53	0.0012	MMcf	0.62	AP-42	12.32	12.32	1,441	0.37	18.79	2,361	73,466	-	20.54
7-6	2-02-004-01	0.0650	Mgal	32.50	AP-42	255.13	255.13	14,235	224.25	373.75	3,770	735,402	7.80	0.01
7-7	2-02-001-02	0.0181	Mgal	9.05	AP-42	384.63	384.63	5,466	359.29	446.17	1,177	204,530	4.98	0.00
7-9	2-02-004-01	0.0418	Mgal	20.90	AP-42	164.07	164.07	9,154	144.21	240.35	2,424	472,920	5.02	0.00
7-10	2-02-002-53	0.0008	MMcf	0.39	AP-42	7.81	7.81	913.43	0.24	11.91	1,497	46,577	-	13.02
7-11	2-02-002-53	0.0017	MMcf	0.85	AP-42	16.83	16.83	1,968	0.51	25.66	3,225	100,355	-	28.06
7-12	2-02-004-01	0.0344	Mgal	17.20	AP-42	135.02	135.02	7,534	118.68	197.80	1,995	389,197	4.13	0.00
7-13	2-02-004-01	0.0580	Mgal	29.00	AP-42	227.65	227.65	12,702	200.10	333.50	3,364	656,205	6.96	0.01
7-16	2-02-001-02	0.0100	Mgal	87.60	AP-42	3,723	3,723	52,910	3,478	4,319	11,388	2.0E+06	48.18	0.05



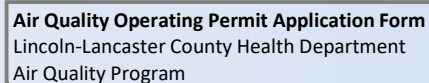
## SECTION 5 – MAXIMUM POTENTIAL TO EMIT (MPTE)

Table 5-A: MPTE – Regulated Air Pollutant Emissions from Physical Plants and Other Equipment

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

Ver. 01/2025

Emission Unit #	SCC Code	Hourly Process Rate	Process Rate Units	Max Annual Throughput	Emission Factor Source	PM <sub>10</sub>	PM <sub>2.5</sub>	NOx	SOx	VOC	CO	GHGs (CO <sub>2</sub> e)	LEAD	Total HAP
7-17	2-02-002-53	0.0016	MMcf	0.78	AP-42	15.50	15.50	1,813	0.47	23.64	2,971	92,451	-	25.85
7-18	2-02-001-02	0.0100	Mgal	5.00	AP-42	212.50	212.50	3,020	198.50	246.50	650.00	113,000	2.75	0.00
7-19	2-02-004-01	0.0510	Mgal	25.50	AP-42	200.18	200.18	11,169	175.95	293.25	2,958	577,008	6.12	0.01
7-20	2-02-002-53	0.0011	MMcf	0.55	AP-42	10.79	10.79	1,262	0.33	16.45	2,068	64,345	-	17.99
7-21	2-02-002-53	0.0043	MMcf	2.16	AP-42	42.85	42.85	5,011	1.30	65.33	8,211	255,493	-	71.43
7-22	2-02-004-01	0.1040	Mgal	52.00	AP-42	408.20	408.20	22,776	358.80	598.00	6,032	1.2E+06	12.48	0.01
7-23	2-02-002-53	0.0013	MMcf	0.66	AP-42	13.05	13.05	1,526	0.40	19.89	2,500	77,787	-	21.75
7-24	2-02-004-01	0.0344	Mgal	17.20	AP-42	135.02	135.02	7,534	118.68	197.80	1,995	389,197	4.13	0.00
7-25	2-02-002-54	0.0019	MMcf	0.95	AP-42	9.71	9.71	3,964	0.57	114.64	541.15	112,457	-	70.13
7-26	2-02-002-54	0.0017	MMcf	0.83	AP-42	8.46	8.46	3,456	0.50	99.96	471.84	98,053	-	61.15
7-27	2-02-002-53	0.0018	MMcf	0.90	AP-42	17.82	17.82	2,084	0.54	27.17	3,415	106,259	-	29.71
8-1	4-04-004-03	1.10	gal	9,636	AP-42	-	-	-	-	2,400	-	-	-	-
8-2	4-04-004-03	1.10	gal	9,636	AP-42	-	-	-	-	2,400	-	-	-	-
10-1	3-15-021-02	175.00	pounds	1.53E+06	AP-42	979.74	979.74	-	-	-	-	-	0.76	1,757
10-2	1-03-006-02	0.0015	MMcf	13.14	AP-42	99.86	99.86	1,314	7.88	72.27	1,104	1.6E+06	0.01	24.80
11-1	3-15-021-02	600.00	pounds	5.26E+06	AP-42	3,359	3,359	-	-	-	-	-	2.61	6,024
11-2	1-03-006-02	0.0054	MMcf	47.30	AP-42	359.51	359.51	4,730	28.38	260.17	3,974	5.7E+06	0.02	89.27



**For a complete list of EPA regulated Hazardous Air Pollutants, including CAS Numbers, click [here](#).**

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

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

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Table 5-C| MPTE HAP



## SECTION 5 – MAXIMUM POTENTIAL TO EMIT (MPTE)

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

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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 <sub>10</sub>	107.91	15.0	Yes	100.0	Yes
PM <sub>2.5</sub>	107.91				
NOx	189.96	40.0	Yes	100.0	Yes
SOx	102.83	40.0	Yes	100.0	Yes
VOC	106.55	40.0	Yes	100.0	Yes
CO	134.46	50.0	Yes	100.0	Yes
Lead	5.04	0.6	Yes	5.0	Yes
GHGs	406,788.35				
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	3.89	2.5	Yes	10.0	No
Total Combined HAP	9.95	10.0	No	25.0	No



## 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. However, the maximum potential HAP emissions from your facility are less than the HAP 'Major Source' thresholds. Proceed to answer the following questions.

Do you wish to take enforceable permit requirements to limit emissions to levels that are lower than Class I Permit thresholds?

☐ Yes

☒ No

☐ Yes

☐ No

Your facility will be classified as a Class I (Title V) source of criteria pollutants, and as an 'Area Source' of HAP. Proceed to Part D of this section, below.

Because you are not taking Synthetic Minor limits and your facility is an 'Area Source' of HAP, Parts B and C of this section do not apply. Complete Part D of this section, below.

### Part B: Source Elected Requirements for Synthetic Minor Sources

Not applicable.

Not applicable.

Not Applicable.

☐ Yes

☐ No

Not Applicable.

☐ Yes

☐ No

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

Not Applicable.

Not Applicable.

Not Applicable.

☐ Yes

☐ No

Not Applicable.

☐ Yes

☐ No

#### Part D: Source Elected Requirements for Actual Emission Reductions

All sources that are required to hold an operating permit are required to pay an annual emission fee based on actual pollutant emissions.

You may agree to control requirements in order to reduce actual emissions of pollutants to the atmosphere, thereby reducing the annual emission fees. Check the following, as applicable.

Do you agree to accept control requirements to reduce actual pollutant emissions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
---	------------------------------	--

Sources may also agree to throughput limits in their permit to prevent the possibility of exceeding permit thresholds. Check the following, as applicable.

Do you agree to accept throughput limits to prevent possible exceedances of permit thresholds?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
--	------------------------------	--

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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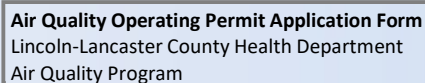
## SECTION 6 – DETERMINATION OF SOURCE CLASS

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.

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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
2-1	1-03-004-02	No	5,852		Mgal/yr	No			
2-2	1-03-006-02	No	854.98		MMcf/yr	No			
3-1	1-03-004-02	No	5,501		Mgal/yr	No			
3-2	1-03-005-02	No	5,945		Mgal/yr	No			
3-3	1-03-006-02	No	794.06		MMcf/yr	No			
5-1	1-03-005-02	No	2,372		Mgal/yr	No			
5-2	1-03-006-02	No	322.37		MMcf/yr	No			
6-1	1-03-005-02	No	2,372		Mgal/yr	No			
6-2	1-03-006-02	No	322.37		MMcf/yr	No			
4-1	3-85-001-01	No	6.57E+06		Mgal/yr	No			
4-2	3-85-001-01	No	6.83E+06		Mgal/yr	No			
4-3	3-85-001-01	No	5.78E+06		Mgal/yr	No			
7-2	2-02-001-02	No	2.00		Mgal/yr	No			
7-3	2-02-001-02	No	4.55		Mgal/yr	No			
7-4	2-02-002-53	No	0.62		MMcf/yr	No			
7-6	2-02-004-01	No	32.50		Mgal/yr	No			
7-7	2-02-001-02	No	9.05		Mgal/yr	No			
7-9	2-02-004-01	No	20.90		Mgal/yr	No			
7-10	2-02-002-53	No	0.39		MMcf/yr	No			
7-11	2-02-002-53	No	0.85		MMcf/yr	No			
7-12	2-02-004-01	No	17.20		Mgal/yr	No			
7-13	2-02-004-01	No	29.00		Mgal/yr	No			
7-16	2-02-001-02	No	87.60		Mgal/yr	No			
7-17	2-02-002-53	No	0.78		MMcf/yr	No			
7-18	2-02-001-02	No	5.00		Mgal/yr	No			
7-19	2-02-004-01	No	25.50		Mgal/yr	No			



**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.*

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[illegible]



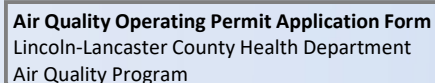
## SECTION 7 – ACTUAL POTENTIAL TO EMIT (APTE)

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

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

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Emission Unit #	SCC Code	Annual Throughput	Throughput Units	PM <sub>10</sub>	PM <sub>2.5</sub>	NOx	SOx	VOC	CO	GHGs (CO <sub>2</sub> e)	LEAD	Total HAP
2-1	1-03-004-02	5,852	Mgal/yr	199,980	199,980	199,980	199,980	199,980	199,980	1.45E+08	9,980	3,539
2-2	1-03-006-02	854.98	MMcf/yr							1.02E+08		1,616
3-1	1-03-004-02	5,501	Mgal/yr							1.37E+08		3,326
3-2	1-03-005-02	5,945	Mgal/yr							1.35E+08		244.19
3-3	1-03-006-02	794.06	MMcf/yr							9.48E+07		1,501
5-1	1-03-005-02	2,372	Mgal/yr							5.37E+07		97.43
5-2	1-03-006-02	322.37	MMcf/yr							3.85E+07		609.28
6-1	1-03-005-02	2,372	Mgal/yr							5.37E+07		97.43
6-2	1-03-006-02	322.37	MMcf/yr							3.85E+07		609.28
4-1	3-85-001-01	6.57E+06	Mgal/yr	547.94	547.94	-	-	-	-	-	-	-
4-2	3-85-001-01	6.83E+06	Mgal/yr	2,279	2,279	-	-	-	-	-	-	-
4-3	3-85-001-01	5.78E+06	Mgal/yr	1,929	1,929	-	-	-	-	-	-	-
7-2	2-02-001-02	2.00	Mgal/yr	85.00	85.00	1,208	79.40	98.60	260.00	45,200	1.10	0.00
7-3	2-02-001-02	4.55	Mgal/yr	193.38	193.38	2,748	180.64	224.32	591.50	102,830	2.50	0.00
7-4	2-02-002-53	0.62	MMcf/yr	12.32	12.32	1,441	0.37	18.79	2,361	73,466	-	20.54
7-6	2-02-004-01	32.50	Mgal/yr	255.13	255.13	14,235	224.25	373.75	3,770	735,402	7.80	0.01
7-7	2-02-001-02	9.05	Mgal/yr	384.63	384.63	5,466	359.29	446.17	1,177	204,530	4.98	0.00
7-9	2-02-004-01	20.90	Mgal/yr	164.07	164.07	9,154	144.21	240.35	2,424	472,920	5.02	0.00
7-10	2-02-002-53	0.39	MMcf/yr	7.81	7.81	913.43	0.24	11.91	1,497	46,577	-	13.02
7-11	2-02-002-53	0.85	MMcf/yr	16.83	16.83	1,968	0.51	25.66	3,225	100,355	-	28.06
7-12	2-02-004-01	17.20	Mgal/yr	135.02	135.02	7,534	118.68	197.80	1,995	389,197	4.13	0.00
7-13	2-02-004-01	29.00	Mgal/yr	227.65	227.65	12,702	200.10	333.50	3,364	656,205	6.96	0.01
7-16	2-02-001-02	87.60	Mgal/yr	3,723	3,723	52,910	3,478	4,319	11,388	1.98E+06	48.18	0.05
7-17	2-02-002-53	0.78	MMcf/yr	15.50	15.50	1,813	0.47	23.64	2,971	92,451	-	25.85
7-18	2-02-001-02	5.00	Mgal/yr	212.50	212.50	3,020	198.50	246.50	650.00	113,000	2.75	0.00
7-19	2-02-004-01	25.50	Mgal/yr	200.18	200.18	11,169	175.95	293.25	2,958	577,008	6.12	0.01

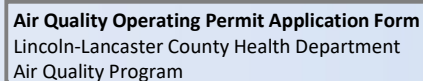


**Table 7-A: Facility-Wide APTE – Regulated Air Pollutant Emissions**

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

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[illegible]



**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.

[illegible]



## SECTION 7 – ACTUAL POTENTIAL TO EMIT (APTE)

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

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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 <sub>10</sub>	107.91	15.0	Yes	100.0	Yes
PM <sub>2.5</sub>	107.91				
NOx	189.96	40.0	Yes	100.0	Yes
SOx	102.83	40.0	Yes	100.0	Yes
VOC	106.55	40.0	Yes	100.0	Yes
CO	134.46	50.0	Yes	100.0	Yes
Lead	5.04	0.6	Yes	5.0	Yes
GHGs	406,788.35				
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	3.89	2.5	Yes	10.0	No
Total Combined HAP	9.95	10.0	No	25.0	No



## SECTION 8: PERMIT SHIELD

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### 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 applicability.

### 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 60, Subpart Db	NSPS for ICI Steam Generating Units	Boilers 3, 4, & 5 are smaller than the applicability threshold of 'greater than 100 million BTU per hour'
40 CFR 60, Subpart Dc	NSPS for Small ICI Steam Generating Units	Boilers 3, 4, & 5 were installed before June 9, 1989 and have not been 'modified' or 'reconstructed'
40 CFR 98, Subpart C	Mandatory GHG Reporting	UNL East Campus does not exceed 25,000 metric ton CO <sub>2</sub> e annual threshold
40 CFR 60, Subpart Ec	NSPS for HMIWI	Incinerators burn 90% 'pathological waste' as defined in Ec 60.51c and Ce 60.32e(b) therefore are not HMIWI
40 CFR 60, Subpart Ce	NSPS for HMIWI	Incinerators burn 90% 'pathological waste' as defined in Ec 60.51c and Ce 60.32e(b) therefore are not HMIWI
40 CFR 60, Subpart E	NSPS for Incinerators	Incinerators charging rate is less than 50 ton/day applicability threshold in 60.50(a)
40 CFR 60, Subparts Cb, Ea, Eb, AAAA, and BBBB	NSPS for Municipal Waste Combustors	Incinerators do not combust municipal solid waste or municipal-type solid waste
40 CFR 60, Subparts CCCC	NSPS for CISWI	Incinerators do not combust 'solid waste' as defined in 40 CFR part 241 per CCCC 60.2010
40 CFR 60, Subparts DDDD	NSPS for CISWI	Incinerators burn 90% 'pathological waste' as defined in DDDD 60.2875 therefore are exempt per 60.2555(a)
40 CFR 60, Subparts EEEE	NSPS for OSWI	Incinerators burn 90% 'pathological waste' as defined in EEEE 60.2977 therefore are exempt per 60.2887(l)
40 CFR 60, Subparts FFFF	NSPS for OSWI	Incinerators did not commence construction on or before Dec 9, 2004 per 60.2981 therefore are exempt from FFFF
40 CFR 64	Compliance Assurance Monitoring (CAM)	Emission units equipment/controls do not meet the definition of 'control device' in CAM rule
40 CFR 60, Subparts K, Ka, and Kb	NSPS for Storage Vessels for Volatile Organic Liquids	Emission units do not store regulated liquids and/or have capacities less than regulated thresholds. Gasoline from GDF is exempt from this rule.
40 CFR 68	Chemical Accident Prevention Provisions	UNL East Campus does not exceed threshold quantities of any regulated substance
40 CFR 61, Subpart I	NESHAP for Radionuclide Emissions	UNL East Campus is subject to Nuclear Regulatory Commission as delegated to State of NE, therefore is exempt from Subpart I
40 CFR 63, Subpart Q	NESHAP for Cooling Towers	Chromium based water treatment chemicals are not used in cooling towers at UNL East Campus, therefore exempt from Subpart Q



## SECTION 9: APPLICABLE RULES AND REQUIREMENTS

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### PART A: Applicable Requirements of the LLCAPCPRS

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

Requirement Citation & Name	Does standard apply?	If "Yes", describe compliance method. If "No", explain reason it does not apply.
LLCAPCPRS Article 2, Section 18: New Source Performance Standards (40 CFR Part 60)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Describe compliance with each applicable NSPS in Part B, below.
LLCAPCPRS Article 2, Section 19: Prevention of Significant Deterioration (PSD) of Air Quality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Facility is a major source for PSD purposes, but does not hold any PSD permits
LLCAPCPRS Article 2, Section 20, paragraph (A) & Table 20-2: Process Weight Rate Particulate Emission Stds.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Facility does not operate any units subject to this requirement
LLCAPCPRS Article 2, Section 20, paragraph (B) & Table 20-1: Heat Input Rate Particulate Emission Stds.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Compliance demonstrated using EPA-approved emission factors
LLCAPCPRS Article 2, Section 20, paragraph (E): <20% Opacity of Visible Emissions	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Periodic visual monitoring as evaluated by Method 9 in Appendix A of 40 CFR 60
LLCAPCPRS Article 2, Section 21: Compliance Assurance Monitoring (CAM) (40 CFR Part 64)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does not apply to Class II sources, but Class I sources must give explanation in Part C.
LLCAPCPRS Article 2, Section 22, paragraph (B): Particulate Emission Stds. for Incinerators & Burn-Ovens	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Compliance demonstrated as required by applicable construction/operating permit
LLCAPCPRS Article 2, Section 22, paragraph (H): Standards for Air Curtain Incinerators	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Facility does not operate any units subject to this requirement
LLCAPCPRS Article 2, Section 22, paragraph (I): Standards for Pathological Material Incinerators	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Facility does not operate any units subject to this requirement
LLCAPCPRS Article 2, Section 23: Hazardous Air Pollutants - Emission Standards (40 CFR Part 61)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Describe compliance with each applicable HAP standard in Part B, below.
LLCAPCPRS Article 2, Section 24: Sulfur Compound Emissions - Existing Sources - Emission Standards	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Compliance demonstrated using EPA-approved emission factors
LLCAPCPRS Article 2, Section 25: Nitrogen Oxides - Emission Standards for Existing Stationary Sources	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Facility does not operate any units subject to this requirement
LLCAPCPRS Article 2, Section 26: Acid Rain (40 CFR Parts 72 through 78)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Describe compliance with each applicable Acid Rain standard in Part B, below.
LLCAPCPRS Article 2, Section 27: Hazardous Air Pollutants - Maximum Achievable Control Technology (MACT)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Describe compliance with each applicable standard in Part B, below.
LLCAPCPRS Article 2, Section 28: MACT Emission Standards (40 CFR Part 63)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Describe compliance with each applicable MACT standard in Part B, below.
LLCAPCPRS Article 2, Section 32: Dust - Duty to Prevent the Escape Of	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Standard Operating Procedure & Best Management Practices





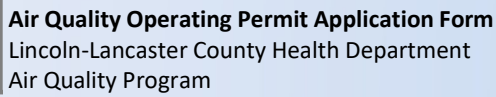
## SECTION 9: APPLICABLE RULES AND REQUIREMENTS

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### 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.

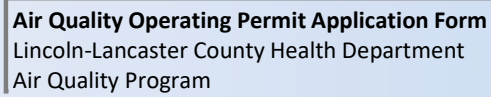
Regulation Name (e.g. NSPS for Grain Elevators)	Regulation Citation (e.g. 40 CFR 60 Subpart DD)	Emission unit(s) covered by this regulation.
NSPS for Compression Ignition Engines	40 CFR 60 Subpart IIII	Emergency generators
NSPS for Spark Ignition Engines	40 CFR 60 Subpart JJJJ	Emergency generators
NESHAP for Asbestos	40 CFR 61 Subpart M	Facility-wide Demolition and Renovation
NESHAP for RICE	40 CFR 63 Subpart ZZZZ	Emergency generators
NESHAP for Area Source Boilers	40 CFR 63 Subpart JJJJJJ	Utility Plant boilers
Protection of Stratospheric Ozone	40 CFR 82 Subpart F	Facility-wide
NEHSAP for GDF	40 CFR 63 Subpart CCCCCC	Transportation Services; Landscape Services
Test Methods (Method 9 Opacity)	40 CFR 60, Appendix A	Facility-wide
Mandatory Reporting Rule for GHGs	40 CFR 98 Subpart C	Facility-wide



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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 not apply to your source.

Section 9 | Applicable Rules



## Part A: Compliance Status for Applicable Rules and Requirements

<input checked="checked" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Proceed to Application Checklist.</b>
---	--

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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## APPLICATION COMPLETENESS CHECKLIST

Does this application contain confidential information?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If "Yes" are application pages containing confidential data clearly marked?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No or N/A
Continue with the remainder of the checklist.			
Will your source require a Class I (Title V) operating permit?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
You must submit the original signed operating permit application, as well as two (2) additional signed copies of the permit application.			
Section Number & Name	Included With Application?	If not included, provide reason.	
Section 1: Administrative Information And Responsible Official Certification	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Section 2: Detailed Source Information	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Table 3-A: Emission Unit Identification	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Table 3-B: Stack / Release Point Information	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Table 4-A: Insignificant Activities List	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Table 4-B: Insignificant Lubricating and Heavy Oil Storage Information	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Table 4-C: Insignificant Cooling Towers	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Table 5-A: MPTE – Regulated Air Pollutant Emissions from Physical Plants and Other Equipment	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Table 5-B: Facility-Wide MPTE – VOC Emissions from VOC-Containing Materials	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Table 5-C: Facility-Wide MPTE - HAP Emissions from HAP-Containing Materials	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Table 5-D: Maximum Potential to Emit and Operating / Construction Permit Thresholds	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Section 6: Determination Of Source Class	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Table 6-A: Source-Elected Throughput Limits and Emission Control Requirements	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Table 7-A: Facility-Wide APTE – Regulated Air Pollutant Emissions	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Table 7-B: Facility-Wide APTE – VOC Emissions from VOC-Containing Materials	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Table 7-C: Facility-Wide APTE – HAP Emissions from HAP-Containing Materials	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Table 7-D: Actual Potential to Emit and Operating Permit Thresholds	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Section 8: Permit Shield	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		



### APPLICATION COMPLETENESS CHECKLIST

Section 9: Applicable Rules And Requirements	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Section 10: Compliance Plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Table 10-A: Compliance Schedule	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

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