STATEMENT OF BASIS TO RENEW A CLASS I (TITLE V) PERMIT TO OPERATE A MAJOR SOURCE OF AIR CONTAMINANTS



Health Department

Lincoln-Lancaster County Health Department

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LLCHD Air Quality Program Facility Identification (FID) Number:	00005
Proposed Class I (Title V) Permit Issue Date:	DATE, 2025

Lincoln-Lancaster County Health Department (LLCHD) has made the preliminary determination to renew a Title V permit to operate a Class I source to the following:

Permit Holder Name:	Nebraska Public Power District
Address:	1414 15 th Street
City, County, State, ZIP:	Columbus, Platte County, Nebraska 68602

The proposed permit renewal allows for continued operation of the following source:

Facility Site Name:	Nebraska Public Power District Sheldon Station
Facility Address:	4500 West Pella Road
City, County, State, ZIP:	Hallam, Lancaster County, Nebraska 68368
Facility NAICS:	221112: Fossil Fuel Electric Power Generation 221122: Electric Power Distribution

In accordance with requirements set forth under Article 2, Sections 13 and 14 of the Lincoln-Lancaster County Air Pollution Control Program Regulations and Standards (LLCAPCPRS), the LLCHD may not issue, significantly modify, or renew a Class I (Title V) operating permit until the public, the U.S. Environmental Protection Agency (US EPA), and affected states have been given the opportunity to comment on the draft permit.

Within the 30-day public comment period, any interested person, agency, group, or affected state may request or petition the Director of the LLCHD for a public hearing. All requests for public hearing must be made in writing, and must state the nature of the issues to be raised and all arguments and factual grounds supporting their position. If a public hearing is granted by the Director, the hearing will be advertised by public notice at least 30 days prior to its occurrence.

The U.S. EPA may elect to either utilize or waive their 45-day review period following completion of the public comment period. Within the 45-day review period, the U.S. EPA may submit comments on the proposed draft.

A final determination on this permit will be made following the opportunity of the public, the US EPA, and affected states to review and comment on the draft permit, and any/all comments received have been addressed. The conclusion of this document will include a recommendation to either approve or deny the renewal of a Class I (Title V) operating permit for this source.

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Section 1 - Introduction

Nebraska Public Power District (NPPD) Sheldon Station (hereinafter referred to as 'NPPD' or 'the source') has applied to renew a Class I (Title V) operating permit for the Sheldon Station located at 4500 West Pella Road in Hallam, Nebraska. NPPD submitted the initial air quality operating permit renewal application on February 25, 2022, which met the requirement for a 'timely submittal' prior to the operating permit expiring on September 1, 2022.

Article 2, Section 5 of the Lincoln-Lancaster County Health Department Air Pollution Control Program Regulations and Standards (LLCAPCPRS) requires that significant sources of air pollutants apply for operating permits. Sources that are required to apply for Class I operating permits are those defined as a major source under the criteria set forth in Article 2, Section 2, paragraph (G) of the LLCAPCPRS based on their potential to emit, and sources subject to certain federal emission standards.

This facility has a potential to emit (PTE) particulate matter less than 10 microns aerodynamic diameter (PM $_{10}$), oxides of nitrogen (NOx), sulfur dioxide (SO $_{2}$), volatile organic compounds (VOC), carbon monoxide (CO), lead, individual hazardous air pollutants (HAPs), and total combined HAPs at levels greater than major source thresholds.

Section 2 - Permitting History

2.01 - Operating Permits No. 043 and No. 043A

Operating Permit No. 043 was issued to Nebraska Public Power District (NPPD) on January 18, 1982 for the operation of Units #1 and #2 (coal-fired boilers). The specific conditions of that permit pertained primarily to excess emissions occurring as a result of start-up and shutdown. During periods of start-up and shutdown, the permit allowed for up to two (2) periods per hour during which the 6-minute average opacity could equal 60% as a result of air heater blowing, rapid load increases, or high load conditions. For all other times, the opacity was limited to less than 20%.

Operating Permit No. 043A was issued on May 16, 1989 to replace Operating Permit No. 043. The newly issued operating permit contained more stringent requirements for the reporting of excess emissions. In addition, the provisions allowing for up to two 6-minute averages of 60% per hour was removed, and replaced with an allowance for up to one 6-minute average per hour of no more 27.4% opacity.

Operating Permit No. 043A was amended on January 18, 1994 to allow for the operation of Units #1 and #2 coal/tire derived fuel (TDF) and scrap rubber blends. Units #1 and #2 were allowed to combust natural gas and coal in any combination. The permit limited the coal/TDF and scrap rubber blends to a ratio of 5% and the percentage of scrap rubber introduced into the TDF matrix to 25%. These limits remain as applicable requirements in the proposed permit. Operating Permit No. 043A was superseded by the Title V operating permit issued October 1, 2003.

2.02 - Initial Phase 2 Acid Rain Permit

The first Phase 2 Acid Rain Permit was issued January 1, 2000. The permit required NPPD to maintain compliance with all applicable requirements of the Acid Rain Program, and to hold the necessary emission allowances established therein.

2.03 - Initial Title V Operating Permit

The initial operating permit for this facility was issued on October 1, 2003, and incorporated the applicable requirements of Operating Permit No. 043A, as well as all other applicable federal regulations existing at the time of permit issuance. Prior to the issuance of the operating permit, NPPD had submitted a timely application for a Class I operating permit as required under Article 2, Section 7, paragraph (B) of the LLCAPCPRS, but issuance of the initial permit was delayed for several years.

2.04 - Construction Permit No. 136

On April 9, 2007, Construction Permit No. 136 was issued to NPPD's Sheldon Station for the modification of Unit #2. The modification set forth in the construction permit granted permission to install an over-fire-air (OFA) system, as well as to make modifications to the forced draft fan, the primary air system, and the boiler control system to incorporate control of the new OFA system. This permit also allowed for the installation of new cyclone burners and new slag tank vent piping. The construction permit limits emissions of Carbon Monoxide (CO) to no more than 1.26 lbs/MMBtu based on a 30-day rolling average (30 operating days). Best Available Control Technology (BACT) was required to meet this limit. For the purposes of this construction permit, combustion controls were considered BACT.

2.05 - Phase 2 Acid Rain Permit Renewal

The Phase 2 Acid Rain Permit was renewed on May 11, 2007. NPPD had submitted an application for renewal of the Acid Rain permit on June 23, 2004, but due to an oversight, the Department failed to issue a renewal of this permit. On April 3, 2007, NPPD submitted a revised renewal application that included the name of a new designated representative. Largely identical to the initial Phase 2 Acid Rain Permit, the permit required NPPD to maintain compliance with all applicable requirements of the Acid Rain Program, and to hold the necessary emission allowances established therein.

2.06 - Phase 2 Acid Rain Permit Renewal

The Phase 2 Acid Rain Permit was again renewed on January 1, 2010. Largely identical to the prior Phase 2 Acid Rain Permit renewal, the permit required NPPD to maintain compliance with all applicable requirements of the Acid Rain Program, and to hold the necessary emission allowances established therein.

2.07 - Title V Operating Permit Renewal

The Title V operating permit for this facility was renewed on December 7, 2010, and incorporated the applicable requirements of the previous operating permit, Construction Permit No. 136, as well as all other applicable federal regulations existing at the time of permit issuance. Prior to the issuance of the operating permit, NPPD had submitted a timely application for a Class I operating permit as required under Article 2, Section 7, paragraph (B) of the LLCAPCPRS, but issuance of the initial permit was delayed for a couple of years.

2.08 - Construction Permit No. 158

On May 20, 2013, Construction Permit No. 158 was issued to NPPD's Sheldon Station for the modification of Unit #1. The modification set forth in the construction permit granted permission to install an over-fire-air (OFA) system, as well as to make modifications to the boiler control system to incorporate control of the new OFA system. The construction permit limits emissions of Carbon Monoxide (CO) to no more than 1.26 lbs/MMBtu based on a 30-day rolling average (30 operating days). Best Available Control Technology (BACT) was required to meet this limit. For the purposes of this construction permit, combustion controls were considered BACT.

2.09 - Minor Modification of Construction Permits No. 136 and No. 158

On April 15, 2016, Construction Permits No. 136 and No. 158 were modified using the 'minor modification' procedures for construction permits in LLCAPCPRS Article 2, Section 15. The permits were modified at the request of NPPD to establish minimum stack heights for Units #1 and #2. The permit specified that, after April 18, 2016, NPPD could not operate either unit until their respective stacks had been raised to the minimum heights specified in the applicable permits. Some minor formatting changes were also made to the permits as part of the minor modification. The modified permits were issued as Construction Permits No. 136A and No. 158A. Unit #1's stack was completed in June of 2016, and Unit #2's stack was completed in early-mid August of 2016. The requirements of these construction permits have been incorporated into the proposed Title V operating permit renewal.

2.10 – Title V Operating Permit Renewal

The Title V operating permit for this facility was renewed on September 1, 2017, and incorporated the applicable requirements of the previous operating permit, Construction Permit No. 136A and 156A, as well as all other applicable federal regulations existing at the time of permit issuance. Prior to the issuance of the operating permit, NPPD had submitted a timely application for a Class

I operating permit as required under Article 2, Section 7, paragraph (B) of the LLCAPCPRS, but issuance of the initial permit was delayed for a couple of years.

2.11 - Phase 2 Acid Rain Permit Renewal

The Phase 2 Acid Rain Permit was again renewed on January 1, 2020. Largely identical to the prior Phase 2 Acid Rain Permit renewal, the permit required NPPD to maintain compliance with all applicable requirements of the Acid Rain Program, and to hold the necessary emission allowances established therein.

2.12 - Phase 2 Acid Rain Permit Renewal

The Phase 2 Acid Rain Permit was again renewed on February 1, 2025. Largely identical to the prior Phase 2 Acid Rain Permit renewal, the permit required NPPD to maintain compliance with all applicable requirements of the Acid Rain Program, and to hold the necessary emission allowances established therein.

2.13 – Proposed Renewal of the Class I (Title V) 'Major Source' Operating Permit and Significant Modification of Construction Permit #136A

This document serves as the factual and legal basis for the proposed renewal of the operating permit and significant modification of Construction Permit #136A for NPPD Sheldon Station. The sections that follow provide more information on the source, the nature of emissions from the source, evaluation of the potential to emit, and a discussion of conditions set forth in the draft permits.

Section 3 - Source Characterization

3.01 - Source Description

The Nebraska Public Power District Sheldon Station is a fossil fuel-fired electric generating station north of Hallam, Nebraska. This facility generates electricity for consumer use, primarily by using two boilers and two combustion turbines. The boilers combust coal, natural gas, tire derived fuel (TDF), scrap rubber and de minimis amounts of other material such as boiler cleaning wastes, waste oil, capacitor fluids, and oil adsorbent materials. NPPD is also permitted to burn fly ash in the boilers. The combustion turbines generate electricity by combusting natural gas and fuel oil. This facility is considered a major source as defined in Article 2, Section 2 of the Lincoln-Lancaster County Air Pollution Control Program Regulations and Standards (LLCAPCPRS).

The cooling tower for Unit 1 was replaced in 2008. The cooling tower for Unit 2 was replaced in 2010. LLCHD determined that the construction permit requirements of LLCAPCPRS Article 2, Section 17 did not apply to the cooling tower replacements. The new cooling towers are referred to in the permit as Cooling Tower #1 (associated with Unit #1) and Cooling Tower #2 (associated with Unit #2). The new cooling towers are subject to the requirements of the units that they replaced.

This source is a 'major source' of hazardous air pollutants (HAP) because maximum potential emissions of both individual and combined HAPs from combustion equipment, when present at the source, are more than major source thresholds. 'Major sources' of HAP are those with a maximum potential to emit individual HAP in excess of 10 tons per year, and total combined HAP in excess of 25 tons per year.

3.02 - Significant Sources of Air Pollution

The operations covered by this permit include the following emissions units:

Emission Unit	SCC Code	Emission Point Description	Emission Segment Description
1-1	1-01-002-23	Unit #1 – External Combustion Boiler and Associated Equipment	Coal
1-2	1-01-006-01	Unit #1 – External Combustion Boiler and Associated Equipment	Natural Gas
1-3		Unit #1 – External Combustion Boiler and Associated Equipment	Coal/TDF/Scrap Rubber
2-1	1-01-002-23	Unit #2 – External Combustion Boiler and Associated Equipment	Coal
2-2	1-01-006-01	Unit #2 – External Combustion Boiler and Associated Equipment	Natural Gas
2-3		Unit #2 – External Combustion Boiler and Associated Equipment	Coal/TDF/Scrap Rubber
3-1	2-01-002-01	Unit #3 – Combustion Turbine A and Associated Equipment	Natural Gas
3-2	2-01-001-01	Unit #3 – Combustion Turbine A and Associated Equipment	Distillate Oila
4-1	2-01-002-01	Unit #4 – Combustion Turbine B and Associated Equipment	Natural Gas
4-2	2-01-001-01	Unit #4 – Combustion Turbine B and Associated Equipment	Distillate Oil ^a
5-1	1-01-006-02	Auxiliary Boiler #1	Natural Gas
6-1	1-01-006-02	Auxiliary Boiler #2	Natural Gas
11-1	3-05-010-08	Track Hopper Building	Coal Unloading
12-1	3-05-010-11	Track Hopper to Belt Conveyor #1	Coal Transfer
13-1	3-05-010-11	Belt Conveyor #1 to Belt Conveyor #2	Coal Transfer
14-1	3-05-010-11	Belt Conveyor #2 to Active Coal Pile	Coal Transfer
14a-1	3-05-010-11	Low-BTU Coal Pile to Reclaim Hoppers #1-4	Coal Transfer
15-1	3-05-010-11	Reclaim Hoppers #1-4 to Belt Conveyor #3	Coal Transfer
16-1	3-05-010-11	High BTU Coal Pile to Reclaim Hopper #5	Coal Transfer
17-1	3-05-010-11	Reclaim Hopper #5 to Belt Conveyor #6	Coal Transfer
18-1	3-05-010-11	Belt Conveyor #6 to Crusher House	Coal Transfer
19-1	3-05-010-11	Belt Conveyor #3 to Crusher House	Coal Transfer
20-1	3-05-010-10	Crusher House	Coal Crushing
21-1	3-05-010-11	Crusher House to Belt Conveyor #4	Coal Transfer
22-1	3-05-010-11	Belt Conveyor #4 to Belt Conveyor #5	Coal Transfer
23a-1	3-05-010-11	Belt Conveyor #5 to Boiler #1 Coal Bunker 1a	Coal Transfer
23b-1	3-05-010-11	Belt Conveyor #5 to Boiler #1 Coal Bunker 1b	Coal Transfer
23c-1	3-05-010-11	Belt Conveyor #5 to Boiler #1 Coal Bunker 1c	Coal Transfer
24a-1	3-05-010-11	Belt Conveyor #5 to Boiler #2 Coal Bunker 2a	Coal Transfer
24b-1	3-05-010-11	Belt Conveyor #5 to Boiler #2 Coal Bunker 2b	Coal Transfer
24c-1	3-05-010-11	Belt Conveyor #5 to Boiler #2 Coal Bunker 2c	Coal Transfer
26-1	3-05-101-99	Lime Silo – Loading	Lime Transfer

Emission Unit	SCC Code	Emission Point Description	Emission Segment Description
27-1	3-05-101-99	Fly Ash from Boilers to Silo (Bin Vent Filter Exhaust)	Fly Ash Transfer
27a-1	3-05-101-99	Fly Ash Filter Separators UCC B or UCC C via Vacuum Pump A	Fly Ash Transfer
27b-1	3-05-101-99	Fly Ash Filter Separator UCC C (baghouse) via Vacuum Pump B	Fly Ash Transfer
27c-1	3-05-101-99	Fly Ash Filter Separator UCC B (ESP) via Vacuum Pump C	Fly Ash Transfer
27d-1	3-05-101-99	Fly Ash Wet Mixer System	Fly Ash Transfer
28-1	3-05-101-99	Fly Ash from Silo & Precipitator to Truck	Fly Ash Transfer
29-1	3-05-101-99	Fly/Bottom Ash from Truck to Ash Landfill	Fly/Bottom Ash Transfer
30-1	3-05-010-43	Coal Storage Pile – Live	Coal Storage
31-1	3-05-010-43	Coal Storage Pile – Standby	Coal Storage
32-1	3-05-010-43	Ash Landfill	Bottom Ash
33-1	3-05-020-11	Haul Roads – Unpaved	Roadway Traffic
34-1	3-05-020-11	Haul Roads – Paved	Roadway Traffic
43-1	3-85-001-01	Cooling Tower #1	Mechanical Draft
44-1	3-85-001-01	Cooling Tower #2	Mechanical Draft
46-1	2-02-003-01	Honda GX 240 Air Compressor (8 hp - 0.020 MMbtu/hr)	Gasoline
47-1	2-02-004-01	Emergency Generator (650 hp - 4.55 MMbtu/hr)	Diesel
48-1	2-02-001-02	Fire Pump 1 (274 hp - 0.96 MMBtu/hr)	Diesel
49-1	2-02-001-02	Fire Pump 2 (274 hp - 0.96 MMBtu/hr)	Diesel

^a – 'Distillate Oil' includes both No. 1 and No. 2 fuel oil types.

3.03 - Insignificant Activities

For the purposes of this permit, the following are considered insignificant sources of emissions.

Insignificant Activity	Additional Information
Space Heater	2 - 200,000 Btu/hr All Pro 200T Space Heaters (Diesel & Kerosene)
Space Heater	1 - 215,000 Btu/hr Remington HH-215T-KFA Space Heater (Kerosene)
Space Heater	1 - 175,000 Btu/hr Remington HH-175-KFA Space Heater (Kerosene)
Space Heater	1 - 115,000 Btu/hr Remington Space Heater (Diesel & Kerosene)
Space Heater	1 - Space Heater (Natural Gas)
Space Heater	1 - 230,000 Portable Heater (Kerosene)
Space Heater	2 - 200,000 Btu/hr Space Heater (Natural Gas)
Space Heater	16 - 420,000 Btu/hr Open Air Heaters (Diesel)
Pressure Washer	1 - 350,000 Btu/hr Wash Bay Hotsy Power Washer (Natural Gas)
Pressure Washer	1 - Portable Hotsy Power Washer (Diesel/Kerosene)
Oil Tank	300 Gallon Used Oil Tank
Fuel Tank	100 Gallon Mobile Tank (Diesel)
Fuel Tank	500,000 Gallon Fuel Tank (Diesel)
Fuel Tank	550 Gallon Fuel Tank (Gasoline)

Insignificant Activity	Additional Information
Fuel Tank	520 Gallon Emergency Generator Fuel Tank (Diesel)
Fuel Tank	10,000 Gallon Offroad Fuel Tank (Diesel)
Fuel Tank	550 Gallon Offroad Fuel Tank (Diesel)
Fuel Tank	150 Gallon Fire Pump B Fuel Tank (Diesel)
Fuel Tank	150 Gallon Fire Pump C Fuel Tank (Diesel)
Fuel Tank	500 Gallon Fuel Tank (Diesel)
Space Heater	SCHEU Products Co. 80,000 Btu/hr Heater (Propane)
Space Heater	Mr. Heater Contractor Series Heater 35,000 Btu/hr (Propane)

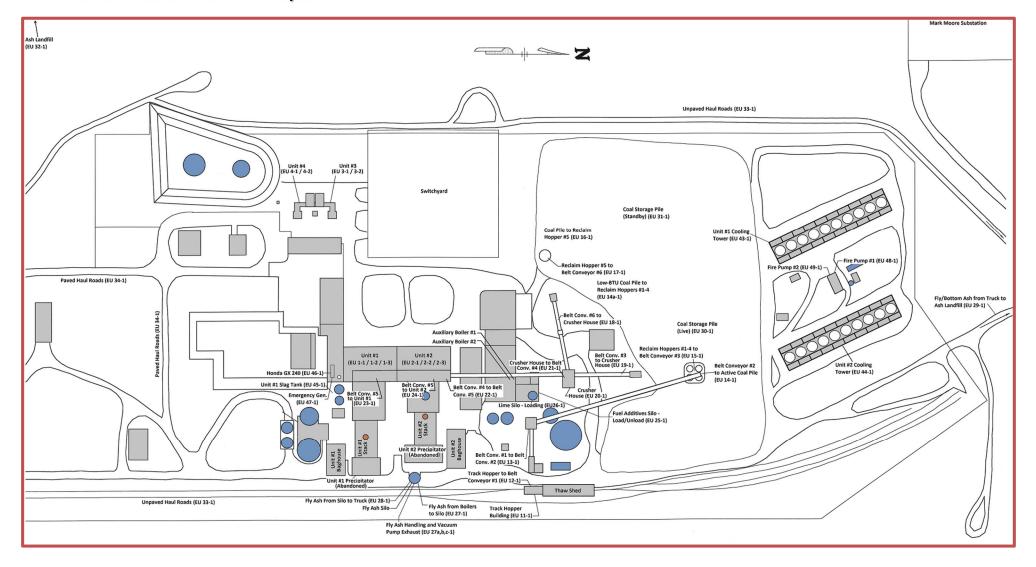
Notes: The Wash Bay Hotsy Power Washer is a stationary unit and is included in the insignificant activities list. It is shown as using natural gas as fuel. The natural gas is only used to heat the water via heating coils and flame; the motor for the water pump is electric. Therefore, the natural gas is not used to fire the engine in the power washer, and thus the power washer is not subject to the RICE MACT and can be classified as an insignificant activity.

3.04 - Source Aerial View

Aerial View of NPPD as viewed from the East looking West.



3.05 - Process Emission Unit Layout



Note:

- Blue-filled objects represent storage tanks/vessels.
- Gray-filled objects represent buildings.

Section 4 – Emission Characterization

4.01 - Emission Calculation Factors and Methods

The procedures for performing emission calculations are provided in the Class I permit application. These procedures will be used to provide the emissions information required for the annual emissions inventory.

4.02 - Maximum Potential Emission Calculations and Totals

4.02.01 - Maximum Potential to Emit (MPTE) - Criteria Pollutants

The following emissions are derived from the approved application for this facility.

Emission	SCC Code	Annual Process	PM ₁₀	PM _{2.5}	NO _x	SO ₂	VOC	СО	CO₂e	LEAD	Total HAPs
Unit	SCC Code	Rate	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)
1-1	1-01-002-23	7.08E+05 tons	363,204.14	363,204.14	1.204E+07	3.026E+07	77,880.03	1.525E+07	2.613E+09	6,138.15	76,184.37
1-2	1-01-006-01	9.425E+03 MMcf	71,627.49	71,627.49	2.639E+06	5,655	51,835.68	1.221E+07	1.134E+09	-	17,782.50
1-3		7.45E+05 tons	406,635.90	406,635.90	1.266E+07	3.388E+07	81,950.00	1.708E+07	2.926E+09	6,872.15	-
2-1	1-01-002-23	7.80E+05 tons	400,140.00	400,140.00	1.326E+07	3.334E+07	85,800.00	1.681E+07	2.879E+09	6,762.37	83,930.60
2-2	1-01-006-01	1.038E+04 MMcf	78,880.90	78,880.90	2.906E+06	6,227	57,084.86	1.344E+07	1.249E+09	-	19,600.18
2-3		7.45E+05 tons	406,635.90	406,635.90	1.266E+07	3.388E+07	81,950.00	1.708E+07	2.926E+09	6,872.15	-
3-1	2-01-002-01	3.374E+03 MMcf	22,895.14	22,895.14	1.11E+06	11,794	7,284.82	284,455	4.062E+08	-	9,525.32
3-2	2-01-001-01	2.81E+04 Mgal	44,572.22	43,549.38	3.462E+06	129,822	1,612.94	12,982.20	6.436E+08	-	4,704.63
4-1	2-01-002-01	3.374E+03 MMcf	22,895.14	22,895.14	1.11E+06	11,794	7,284.82	284,455	4.062E+08	-	9,525.32
4-2	2-01-001-01	2.81E+04 Mgal	44,572.22	43,549.38	3.462E+06	129,822	1,612.94	12,982.20	6.436E+08	-	4,704.63
5-1	1-01-006-02	72.00 MMscf	544.01	544.01	7,158	42.995	393.69	6,012.70	8.616E+08	-	135.18
6-1	1-01-006-02	72.00 MMscf	544.01	544.01	7,158	42.95	393.69	6,012.70	8.616E+08	-	135.18
11-1	3-05-010-08	5.26E+06 tons	17.97	2.72	ı	ı	•	•	-	-	-
12-1	3-05-010-11	5.26E+06 tons	17.97	2.72	ı	ı	-	-	-	-	-
13-1	3-05-010-11	5.26E+06 tons	17.97	2.72	-	-	-	-	-	-	-
14-1	3-05-010-11	5.26E+06 tons	377.23	57.12	-	-	-	-	-	-]
14a-1	3-05-010-11	2.63E+06 tons	188.62	28.56	-	-	-	-	-	-	
15-1	3-05-010-11	2.63E+06 tons	8.98	1.36	-	-	-	-	-	-]
16-1	3-05-010-11	3.07E+06 tons	10.48	1.59	-	-	-	-	-	-	-
17-1	3-05-010-11	3.07E+06 tons	10.48	1.59	-	-	-	-	-	-	-

мајс	or Source		Major Source							LCHD FID#:	00005
Emission	SCC Code	Annual Process	PM ₁₀	PM _{2.5}	NO _x	SO ₂	voc	СО	CO₂e	LEAD	Total HAPs
Unit	3cc code	Rate	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)
18-1	3-05-010-11	3.07E+06 tons	10.48	1.59	-	-	-	-	-	-	-
19-1	3-05-010-11	3.94E+06 tons	13.47	2.04	-	-	-	-	-	-	-
20-1	3-05-010-10	5.26E+06 tons	12,614.40	2,270.59	-	-	-	-	-	-	-
21-1	3-05-010-11	3.94E+06 tons	13.47	2.04	-	-	-	-	-	-	-
22-1	3-05-010-11	3.94E+06 tons	13.47	2.04	-	-	-	-	-	-	-
23a-1	3-05-010-11	1.97E+06 tons			-	-	-	-	-	-	-
23b-1	3-05-010-11	1.97E+06 tons	6.74	1.02	-	-	-	-	-	-	-
23c-1	3-05-010-11	1.97E+06 tons			-	-	-	-	-	-	-
24a-1	3-05-010-11	1.97E+06 tons			-	-	-	-	-	-	-
24b-1	3-05-010-11	1.97E+06 tons	6.74	1.02	-	-	-	-	-	-	-
24c-1	3-05-010-11	1.97E+06 tons			-	-	-	-	-	-	-
26-1	3-05-101-99	4.533E+03 tons	8.92	1.35	-	-	-	-	-	-	-
27-1	3-05-101-99	5.046E+04 tons	462.38	70.02	-	-	-	-	-	-	-
27a-1	3-05-101-99	9.109E+04 tons			-	-	-	-	-	-	-
27b-1	3-05-101-99	9.109E+04 tons	834.64	126.39	-	-	-	-	-	-	-
27c-1	3-05-101-99	9.109E+04 tons			-	-	-	-	-	-	-
27d-1	3-05-101-99	9.109E+04 tons	13.73	2.08	-	-	-	-	-	-	-
28-1	3-05-101-99	9.109E+04 tons	834.64	126.39	-	-	-	-	-	-	-
29-1	3-05-101-99	2.43E+05 tons	46,822.09	7,090.20	-	-	-	-	-	-	-
30-1	3-05-010-43	1.02 acres	344.37	137.75	-	-	-	-	-	-	-
31-1	3-05-010-43	15.30 acres	5,165.62	2,066.25	-	-	-	-	-	-	-
32-1	3-05-010-43	19.32 acres	6,522.86	2,609.15	-	-	-	-	-	-	-
33-1	3-05-010-11	3,241.0 VMT	12,068.97	1,206.90	-	-	-	-	-	-	-
34-1	3-05-010-11	470.0 VMT	3.32	0.82	-	-	-	-	-	-	-
43-1	3-85-001-01	3.153E+07 Mgal	269,106.15	-	-	-	-	-	-	-	-

	Major Source										
Emission Unit	SCC Code	Annual Process Rate	PM ₁₀ (lbs/yr)	PM _{2.5} (lbs/yr)	NO _x (lbs/yr)	SO₂ (lbs/yr)	VOC (lbs/yr)	CO (lbs/yr)	CO₂e (lbs/yr)	LEAD (lbs/yr)	Total HAPs (lbs/yr)
44-1	3-85-001-01	3.153E+07 Mgal	269,106.15	-	-	-	-	-	-	-	-
46-1	2-02-003-01	1.35 Mgal	16.98	16.98	276.28	14.29	514.82	10,646.77	27,220	-	5.71
47-1	2-02-004-01	288.83 Mgal	2,267.28	2,267.28	126,506	1,993	3,321.50	33,503.83	6.521e ⁶	69.32	187.58
48-1	2-02-001-02	60.94 Mgal	2,589.91	2,589.91	36,807	2,419	3,004.30	7,922.09	1.376e ⁶	33.52	39.58
49-1	2-02-001-02	60.94 Mgal	2,589.91	2,589.91	36,807	2,419	3,004.30	7,922.09	1.376e ⁶	33.52	39.58
Т	Total Emissions (pounds per year)			9.25E+05	3.31E+07	6.80E+07	1.93E+05	3.48E+07	7.17E+09	1.39E+04	179,708
	Total Emission	s (tons per year)	767.80	462.37	16,531.78	34,019.61	96.48	17,399.17	3.58E+06	6.94	89.85

The shaded cells have had their values omitted from the total emissions, as only the 'worst case scenario' emissions are included in the totals to avoid double counting of mutually exclusive operating scenarios.

4.02.02 – Maximum Potential to Emit (MPTE) – Hazardous Air Pollutants (HAPs)

These figures represent the MPTE under federally enforceable requirements to limit emissions and fuel combustion throughputs, and to operate control equipment. The following emissions are derived from the approved application.

HAP Name	CAS#	Emissions (lbs)	Emissions (tons)
1,3-Butadiene	106-99-0	119.17	5.96E-02
2,4-Dinitrotoluene	121-14-2	0.40	2.08E-04
2-Chloroacetophenone	532-27-4	9.91	5.21E-03
Acetaldehyde	75-07-0	1129.26	5.85E-01
Acetophenone	98-86-2	21.24	1.12E-02
Acrolein	107-02-8	507.61	2.64E-01
Antimony	7440-36-0	25.49	1.34E-02
Arsenic	7440-38-2	661.23	3.45E-01
Benzene	71-43-2	2,296.93	1.20E+00
Benzo(a)anthracene	56-55-3	0.00	1.26E-06
Benzo(a)pyrene	50-32-8	0.00	1.41E-07
Benzo(b)fluoranthene	205-99-2	0.00	7.46E-08
Benzo(b,j,k)fluoranthene	-24-6	0.16	8.18E-05
Benzyl chloride	100-44-7	991.20	5.21E-01
Beryllium	7440-41-7	32.00	2.62E-02

HAP Name	CAS#	Emissions (lbs)	Emissions (tons)
Biphenyl	92-52-4	2.41	1.26E-03
Bis(2-ethylhexyl)phthalate	117-81-7	103.37	5.43E-02
Bromoform	75-25-2	55.22	2.90E-02
Cadmium	7440-43-9	107.44	5.56E-02
Carbon Disulfide	75-15-0	184.08	9.67E-02
Chlorobenzene	108-90-7	31.15	1.64E-02
Chloroform	67-66-3	83.54	4.39E-02
Chromium	7440-47-3	448.72	2.34E-01
Chromium VI	18540-29-9	111.86	5.88E-02
Chrysene	218-01-9	0.00	2.66E-07
Cobalt	7440-48-4	141.61	7.44E-02
Cumene	98-82-8	7.50	3.94E-03
Cyanide	57-12-5	3,540.00	1.86E+00
Dibenz(a,h)anthracene	53-70-3	0.00	4.39E-07
Dichlorobenzene	106-46-7	22.79	5.74E-03

HAP Name	CAS#	Emissions (lbs)	Emissions (tons)
Dimethyl sulfate	77-78-1	67.97	3.57E-02
Ethyl Benzene	100-41-4	133.10	6.99E-02
Ethyl chloride	75-00-3	59.47	3.12E-02
Ethylene dibromide	106-93-4	1.70	8.93E-04
Ethylene dichloride	107-06-2	59.47	3.05E-02
Formaldehyde	50-00-0	6,419.02	2.95E+00
HCL	7647-01-0	34,904.41	1.83E+01
Hexane	110-54-3	46,334.61	1.47E+01
HF	7664-39-3	100,005.04	5.25E+01
Indeno(1,2,3-cd)pyrene	193-39-5	0.00	2.82E-07
Isophorone	78-59-1	821.28	4.32E-01
Lead	7439-92-1	697.07	5.89E-01
Manganese	7439-96-5	6,465.51	3.25E+00
Mercury	7439-97-6	126.33	6.62E-02
Methyl bromide	74-83-9	226.56	1.19E-01
Methyl chloride	74-87-3	750.48	3.94E-01
Methyl chloroform (1,1,1- Trichlorethane)	71-55-6	28.32	1.49E-02
Methyl hydrazine	60-34-4	240.72	1.26E-01
Methyl methacrylate	80-62-6	28.32	1.49E-02
Methyl tert butyl ether	1634-04-4	49.56	2.60E-02
Methylene Chloride	75-09-2	410.64	2.16E-01
Naphthalene	91-20-3	279.13	9.48E+00
Nickel	7440-02-0	430.39	2.25E-01
Phenanathrene	-24-6	3.82	2.01E-03
Phenol	108-95-2	22.66	1.19E-02

HAP Name	CAS#	Emissions (lbs)	Emissions (tons)
Polycyclic Organic Matter	-24-6	299.95	1.52E-01
Propionaldehyde	123-38-6	538.08	2.83E-01
Propylene oxide	75-56-9	201.20	1.01E-01
Selenium	7782-49-2	2,023.45	1.06E+00
Styrene	100-42-5	35.40	1.86E-02
Tetrachloroethane	127-18-4	60.89	3.20E-02
Toluene	108-88-3	1,266.05	6.42E-01
Vinyl acetate	108-05-4	10.76	5.65E-03
Xylene	1330-20-7	513.00	2.58E-01
Emission Totals		179,708.40	89.85

4.02.03 - MPTE - Permit Threshold Evaluation

The following table summarizes the source's potential to emit, and compares it to applicable Class I and Class II operating permit thresholds:

Criteria Pollutant	Emissions (tpy)	Class II Permitting Threshold	Meet or Exceed?	Class I Permitting Threshold	Meet or Exceed?
PM ₁₀	767.80	≥ 15 tpy	Yes	≥ 100 tpy	Yes
PM _{2.5}	462.37	N/A	N/A	N/A	N/A
NO _X	16,531.78	≥ 40 tpy	Yes	≥ 100 tpy	Yes
SO ₂	34,019.61	≥ 40 tpy	Yes	≥ 100 tpy	Yes
VOC	96.48	≥ 40 tpy	Yes	≥ 100 tpy	No
СО	17,399.17	≥ 50 tpy	Yes	≥ 100 tpy	Yes
Lead	6.94	≥ 0.6 tpy	Yes	≥ 5 tpy	Yes
CO₂e	3,583,045.45	N/A	N/A	N/A	N/A
Hazardous Air Pollutant	Emissions (tpy)	Class II Permitting Threshold	Meet or Exceed?	Class I Permitting Threshold	Meet or Exceed?
Greatest Single HAP	52.55	≥ 2.5 tpy	Yes	≥ 10.0 tpy	Yes
Total Combined HAPs	89.85	≥ 10.0 tpy	Yes	≥ 25.0 tpy	Yes

4.03 - Limited/Controlled Potential to Emit (LPTE) Emission Calculations and Totals

The owner/operator has not elected to accept any additional emission control requirements, fuel combustion limits, and/or material throughput limits. Therefore, the LPTE for NPPD is the same as the MPTE.

4.04 - Permit Threshold Evaluation

Due to the permit threshold evaluation as reflected in Section 4.02.03, the source exhibits emissions above Class I permitting levels. As a result, this facility will require a Class I 'Major' operating permit. Because Hazardous Air Pollutant (HAP) emissions are more than Class I permitting thresholds, this facility will be classified as a 'Major' source of HAPs.

The source will continue to be classified as a 'major source' of air pollution for 'Prevention of Significant Deterioration of Air Quality' (PSD) purposes. In accordance with 40 CFR Part 52, §52.21(b)(1)(i)(a), a source is a 'major source' for PSD purposes if it emits (or has the potential to emit) a regulated pollutant in quantities greater than 100 tons/year AND if it falls into a listed category (refer to §52.21(b)(1)(i)(a)). For sources that do not fall into one of the listed categories, the PSD major source threshold is 250 tons/year pursuant to 40 CFR Part 52, §52.21(b)(1)(i)(b). NPPD falls under one of the listed source categories found in 40 CFR Part 52, §52.21(b)(1)(i)(a), and emissions of all regulated NSR pollutants, except for VOC and lead are more than 100 tons/year.

Section 5 – Applicable Regulations & Requirements

5.01 – Class I Operating Permit Applicable and Non-Applicable Regulations

5.01.01 - Applicable Regulations under the LLCAPCPRS

(A) The following sections (§) of the LLCAPCPRS listed in are regulations of this permit:

Table 1-A: Applicable Regulations of the LLCAPCPRS

	Table 1-A: Applicable Regulations of the LLCAPCPRS
Article 1: A	dministration and Enforcement
§1	Intent
§2	Unlawful Acts – Permits Required
§3	Violations – Hearings – Orders
§4	Appeal Procedure
§ 5	Variance
§6	Annual Fees
§7	Compliance – Actions to Enforce – Penalties for Non-Compliance
§8	Procedure for Abatement
§9	Severability
Article 2: R	egulations and Standards
§1	Definitions
§2	Major Sources – Defined
§ 5	Operating Permits – When Required
§6	Emissions Reporting – When Required
§ 7	Operating Permits – Application
§8	Operating Permits – Content
§12	Operating Permit Renewal and Expiration
§13	Class I Operating Permit – EPA Review – Affected States Review
§14	Permits – Public Participation
§15	Permit Modifications – Reopening for Cause
§16	Stack Heights – Good Engineering Practice (GEP)
§17	Construction Permits – When Required
§18	New Source Performance Standards and Limits for Existing Sources
§19	Prevention of Significant Deterioration (PSD) of Air Quality
§20	Particulate Limitations and Standards
§21	Compliance Assurance Monitoring (CAM)
§23	National Emission Standards for Hazardous Air Pollutants (NESHAPs)
§24	Sulfur Compound Emission Standards for Existing Sources
§26	Acid Rain
§27	Hazardous Air Pollutants – Maximum Achievable Control Technology (MACT)
§28	Hazardous Air Pollutants – Source Category Emission Standards
§29	Operating and Construction Permit Emission Fees
§32	Duty to Prevent Escape of Visible Airborne Dust
§33	Time Schedule for Compliance
§34	Emission Source Testing and Monitoring
§35	Compliance – Exceptions Due to Startup, Shutdown or Malfunction
§36	Control Regulation Circumvention – When Excepted
§37	Compliance – Responsibility of Owner/Operator Pending Review by Director
§38	Emergency Episodes – Occurrence, Control, and Contingency Plans
Appendices	
I	Emergency Emission Reduction Regulations

	II	Hazardous Air Pollutants Sorted by Pollutant Name
I	Ш	Hazardous Air Pollutants Sorted by CAS Number

5.01.02 - Applicable Federal Regulations

(B) The Federal Regulations in Table 1-B below are requirements of this permit.

Table 1-B: Applicable Federal Regulations

An CER Part 60): New Source Performance Standards (NSPS)
Subpart	Subpart Subject
•	General Provisions
A Y	
•	Coal Preparation and Processing Plants
	L: National Emission Standards for Hazardous Air Pollutants (NESHAPs)
Subpart	Subpart Subject
A	General Provisions
M	Asbestos
	S: Source Category NESHAPs
Subpart	Subpart Subject
А	General Provisions
В	Requirements for Control Technology Determinations for Major Sources in
	Accordance With Clean Air Act Sections, Sections 112(g) and 112(j)
С	List of Hazardous Air Pollutants, Petitions Process, Lesser Quantity Designations,
C	Source Category List
D	Regulations Governing Compliance Extensions for Early Reductions of Hazardous Air
	Pollutants
E	Approval of State Programs and Delegation of Federal Authorities
YYYY	Stationary Combustion Turbines
ZZZZ	Stationary Reciprocating Internal Combustion Turbines
DDDDD	Industrial-Commercial-Institutional Boilers & Process Heaters at Major Sources
UUUUU	Coal-and Oil-Fired Electric Steam Generating Units
40 CFR Part 64	I: Compliance Assurance Monitoring (CAM)
40 CFR Part 72	2: Permits Regulation (Acid Rain)
40 CFR Part 73	B: Sulfur Dioxide (SO₂) Allowance System (Acid Rain)
40 CFR Part 75	: Continuous Emission Monitoring (Acid Rain)
40 CFR Part 77	: Excess Emissions (Acid Rain)
40 CFR Part 78	3: Appeal Procedures (Acid Rain)
40 CFR Part 82	2: Protection of the Stratospheric Ozone
Subpart	Subpart Subject
A	Protection and Consumption Controls
В	Servicing Motor Vehicle Air Conditioners
E	Labeling of Products Using Ozone-Depleting Substances
F	Recycling Emissions Reduction
G	Significant New Alternatives Policy Program
	7: Transport Rule (TR)
Subpart	Subpart Subject
AAAAA	TR NO _x Annual Trading Program
DDDDD	TR SO ₂ Group 2 Trading Program
	Titl 302 Group 2 Trading Frogram

5.01.03 - Non-Applicable Regulations under the LLCAPCPRS

(C) The regulations contained within the sections (§) of the LLCAPCPRS listed in Table 1-BC do not apply to this source at the time of issuance of this permit.

Table 1-C: LLCAPCPRS Regulations not Incorporated in Permit

Article 2: Regu	Article 2: Regulations and Standards		
§4	Ambient Air Quality Standards		
§9	General Permits		
§10	Operating Permits for Temporary Sources		
§22	Incinerator Emission Standards		
§25	Nitrogen Oxide Emission Standards for Existing Sources		
§3, §11, §30, §31	Reserved		

5.01.04 - Non-Applicable Regulations Federal Regulations

(D) The Federal Regulations in Table 1-D are not requirements of this permit:

Table 1-D: Non-Applicable Federal Regulations

Regulation	Non-Applicable Subparts, Section(s), or Appendix
40 CFR Part 51	Appendix S: Emission Offset Interpretive Ruling
40 CFR Part 60	All subparts, except those listed as applicable in Table 1-B
40 CFR Part 61	All subparts, except those listed as applicable in Table 1-B
40 CFR Part 63	All subparts, except Subparts B–E and those listed as applicable in Table 1-B
40 CFR Part 68	Entire rule is non-applicable at the time of permit issuance
40 CFR Part 82	All subparts, except those listed as applicable in Table 1-B
40 CFR Part 97	All subparts, except those listed as applicable in Table 1-B

5.01.05 – Applicable Regulations under the Lincoln Municipal Code

(E) The local ordinance in Table 1-E is a requirement of this permit:

Table 1-E: Applicable Lincoln Municipal Code (LMC) Chapter(s)

Chapter	Chapter Title
8.06	Air Pollution

5.01.06 - Applicable State Regulations

(F) The 'Prevention of Significant Deterioration of Air Quality' regulation(s) set forth under Title 129 of the Nebraska Administrative Code (Nebraska Air Quality Regulations) apply to this source.

5.02 - CP25-136B Applicable and Non-Applicable Regulations

5.02.01 – Applicable Regulations Under the LLCAPCPRS

(A) The following sections (§) of the LLCAPCPRS are requirements of this permit:

Table 1-A: Applicable Regulations of the LLCAPCPRS

Article 1: Administration and Enforcement		
§1	Intent	
§2	Unlawful Acts – Permits Required	
§3	Violations – Hearings – Orders	
§4	Appeal Procedure	
§ 5	Variance	
§6	Annual Fees	
§7	Compliance – Actions to Enforce – Penalties for Non-Compliance	
§8	Procedure for Abatement	

§9	Severability
Article 2: Reg	ulations and Standards
§1	Definitions
§2	Major Sources – Defined
§4	Ambient Air Quality Standards
§6	Emissions Reporting – When Required
§14	Permits – Public Participation
§15	Permit Modifications – Reopening for Cause
§16	Stack Heights – Good Engineering Practice (GEP)
§17	Construction Permits – When Required
§20	Particulate Limitations and Standards
§23	National Emission Standards for Hazardous Air Pollutants (NESHAPs)
§24	Sulfur Compound Emission Standards for Existing Sources
§32	Duty to Prevent Escape of Visible Airborne Dust
§33	Time Schedule for Compliance
§34	Emission Source Testing and Monitoring
§35	Compliance – Exceptions Due to Startup, Shutdown, or Malfunction
§36	Control Regulation Circumvention – When Excepted
§37	Compliance – Responsibility of Owner/Operator Pending Review by Director
§38	Emergency Episodes – Occurrence, Control and Contingency Plans
Appendices	
I	Emergency Emission Reduction Regulations
II	Hazardous Air Pollutants Sorted by Pollutant Name
III	Hazardous Air Pollutants Sorted by CAS Number

5.02.02 - Applicable Federal Regulations

(B) The following Federal Regulations, include those not currently delegated to the LLCHD or not yet included in the LLCAPCPRS, are requirements of this permit:

Table 1-B: Applicable Federal Regulations

40 CFR Part 63: Source Category NESHAPs		
Subpart	Subpart Subject	
Α	General Provisions	
UUUUU	Coal-and Oil-Fired Electric Steam Generating Units	

5.02.03 - Non-Applicable Regulations under the LLCAPCPRS

(C) The following sections of the LLCAPCPRS are not requirements of this permit:

Table 1-C: LLCAPCPRS Regulations not Incorporated in Permit

Article 2: Regulations and Standards		
§5	Operating Permits – When Required	
§7	Operating Permits – Application	
§8	Operating Permits – Content	
§9	General Permits	
§10	Operating Permits for Temporary Sources	
§12	Operating Permit Renewal and Expiration	
§13	Class I Operating Permit – EPA Review – Affected States Review	
§18	New Source Performance Standards (NSPS)	
§19	Prevention of Significant Deterioration (PSD) of Air Quality	
§21	Compliance Assurance Monitoring (CAM)	
§22	Incinerator Emission Standards	

Table 1-C: LLCAPCPRS Regulations not Incorporated in Permit

Article 2: Regulations and Standards			
§25	Nitrogen Oxide Emissions Standards for Existing Sources		
§26	Acid Rain		
§27	Hazardous Air Pollutants – Maximum Achievable Control Technology (MACT)		
§28	Hazardous Air Pollutants – Source Category Emission Standards		
§29	Operating and Construction Permit Emissions Fees		
§3, §11, §30, §31	Reserved		

5.02.04 - Non-Applicable Federal Regulations

(D) The following Federal Regulations are <u>not</u> requirements of this permit:

Table 1-D: Non-Applicable Federal Regulations

Regulation	Non-Applicable Subparts, Section(s), or Appendix
40 CFR Part 51	Appendix S: Emission Offset Interpretive Ruling
40 CFR Part 60	All subparts, except those listed as applicable in Table 1-B
40 CFR Part 61	All subparts, except those listed as applicable in Table 1-B
40 CFR Part 63	All subparts, except Subparts B–E and those listed as applicable in Table 1-B
40 CFR Part 68	Entire rule is non-applicable at the time of permit issuance
40 CFR Part 82	All subparts, except those listed as applicable in Table 1-B
40 CFR Part 97	All subparts, except those listed as applicable in Table 1-B

5.02.05 - Applicable Regulations under the Lincoln Municipal Code

(E) The following chapter(s) of the Lincoln Municipal Code (LMC) are requirements of this permit:

Table 1-E: Applicable Lincoln Municipal Code (LMC) Chapter(s)

Chapter	Chapter Title
8.06	Air Pollution

5.02.06 – Applicable State Regulations

(F) The 'Prevention of Significant Deterioration of Air Quality' regulation(s) set forth under Title 129 of the Nebraska Administrative Code (Nebraska Air Quality Regulations) apply to this source.

<u>Section 6 – Discussion of Proposed Permit Conditions, Monitoring, Reporting, Notification and Record Keeping Requirements</u>

The following conditions of the proposed permit contain monitoring, reporting, notification, and record keeping requirements. A brief description of these conditions is provided below:

6.01 – Class I Operating Permit Conditions and Requirements

6.01.01 – General Conditions

Conditions II through XXX are general conditions that are applicable to all Class I sources. There will not be an in-depth discussion of these requirements, except to note the following General Conditions specifically related to monitoring, reporting, notification, and record-keeping:

VI – Fees

XI — Annual Emission Reporting

XII(A) - Timely Applications

XII(B) – Certification of Truth, Accuracy, and Completeness

XIII(M) – Permit Copy Maintenance and Retention

XV(B) - Notification of Source Modifications

XXIV(G) - 'Credible Evidence Rule'

XXV – Startup, Shutdown, and Malfunction (SSM) Provisions

6.01.02 – Specific Conditions

The following are specific conditions of the proposed Class I operating permit:

Authority for Specific Conditions. The provisions of the regulations cited under this condition establish that the Specific Conditions of this permit are deemed necessary by the Director to protect public health and/or the environment. All terms and conditions of this permit are enforced by the Administrator and the citizens under the Act, except for those terms and conditions that are specifically designated as not being federally enforceable. This condition also establishes the fact that the permit requirements are in accordance with CP25-136B and Construction Permit #158A, or other authorities as specified in the permit.

XXXII - Source-Wide Requirements. As authorized by Condition XXXI of this permit, the
Director has determined the following to be requirements of this permit. Unless
otherwise specified in a Specific Condition of this permit, these conditions apply
generally to all affected emission units.

(A) Operating Requirements, Throughput Limits, and/or Work Practice Standards.

The requirements set forth under this condition serve to:

- ensure that the units are operated in such a manner that their contributions to air pollution are minimized;
- incorporate any elections made in the approved application by reference; and
- incorporate by reference any applicable operating requirements, processing limits, or work practice standards established pursuant to applicable federal regulations.
- (B) <u>Emission Limits and Emission Control Requirements.</u>

The requirements set forth under this condition serve to:

- incorporate by reference any applicable emission limits or emission control requirements established pursuant to applicable federal regulations.
- (C) Monitoring and Record Keeping Requirements.

- establish the requirement to perform periodic observations to assess compliance with the fugitive dust requirements in accordance with Condition XXII of the proposed permit, and to ensure that the owner/operator keeps records of such observations in accordance with Condition XIII(C) of the proposed permit;
- incorporate by reference any applicable monitoring and record keeping requirements established pursuant to applicable federal regulations; and

 ensure that all monitoring and record keeping is sufficient to verify the operation and efficiency of federally enforceable controls, and all records are retained on-site in accordance with Condition XIII(C)-(D) of the proposed permit.

(D) <u>Notification and Reporting Requirements.</u>

The requirements set forth under this condition serve to:

- specify the type of information that the owner/operator need, and need not, include in the annual certification of compliance, as well as semi-annual monitoring and deviation reports; and
- reference the notification and reporting requirements established under applicable Federal Regulations.

(E) Other Requirements.

The requirements set forth under this condition serve to:

- ensure that the owner/operator achieves compliance with rules and regulations in a timely manner; and
- establish the procedure(s) to be followed prior to making any modifications to any emission units.
- XXXIII Compliance Assurance Monitoring (CAM). The requirements set forth under this condition are designed to enforce the CAM plan submitted by NPPD. The justification for the CAM plan is included as an attachment to the approved application.
- XXXIV Sheldon Station Units #1 and #2 Requirements. As authorized by Condition XXXI of this permit, the Director has determined the following to be applicable requirements of this permit. These conditions apply to the emission units set forth in Table 34 of the proposed permit.
 - (A) Operating Requirements, Throughput Limits, and/or Work Practice Standards.

The requirements set forth under this condition serve to:

- establish the requirements for the Tire Derived Fuel (TDF) and scrap rubber blends burned/used for Sheldon Station Units #1 and #2; and
- establish the limit for the percentage of scrap rubber introduced into the TDF matrix on a calendar quarter basis.
- (B) <u>Emission Limits and Emission Control Requirements.</u>

- incorporate by reference the particulate matter emission limits in accordance with Article 2, Section 20 of the LLCAPCPRS;
- incorporate by reference the opacity limits in accordance with Article 2, Section 20 of the LLCAPCPRS;
- incorporate by reference the sulfur oxide emission limits in accordance with Article 2, Section 24 of the LLCAPCPRS; and
- incorporate by reference any applicable emission limits or emission control requirements established pursuant to CP25-136B and Construction Permit #158A.

(C) <u>Monitoring Requirements.</u>

The requirements set forth under this condition serve to:

- establish the means by which the owner/operator shall demonstrate compliance with the particulate matter emission limits included in this permit;
- ensure the continuous opacity monitoring system (COMS) is installed and operated properly to demonstrate compliance with the opacity limits in this permit;
- ensure the owner/operator demonstrates compliance with the sulfur oxide emission limit in this permit through the use of a continuous emission monitoring system (CEMS);
- establish the means by which the owner/operator will demonstrate compliance with the appliable Acid Rain provisions; and
- incorporate by reference any applicable monitoring requirements established pursuant to CP25-136B and Construction Permit #158A.

(D) Record Keeping Requirements.

The requirements set forth under this condition serve to:

- establish the records necessary to demonstrate compliance with the opacity monitoring through the operation of the COMS;
- ensure that the owner/operator keeps adequate records to demonstrate compliance with the tire derived fuel (TDF) and scrap rubber limits;
- reference the record keeping requirements pursuant to the Acid Rain program established under Condition (G)(2) of the proposed permit;
- reference the record keeping requirements established in the Phase II Acid Rain Permit issued to the facility;
- incorporate by reference any applicable record keeping requirements established pursuant to CP25-136B and Construction Permit #158A; and
- ensure records are maintained as required by Condition XIV(C)-(D) of the proposed permit.

(E) Notification and Reporting Requirements.

- reference the applicable reporting provisions necessary to demonstrate compliance with paragraph (C)(2) and (D)(1) of this condition;
- reference the reporting requirements established pursuant to the Acid Rain program;
- reference the reporting requirements established in the Phase II Acid Rain Permit issued to the facility;
- establish the reporting requirement to demonstrate compliance with paragraphs the limits associated with the burning of coal/TDF/scrap rubber blends;

- give the Director of the Department authority to require that the owner/operator report material throughput/processing as deemed necessary; and
- reference the notification and reporting requirements established pursuant to CP25-136B and Construction Permit #158A.

(F) <u>Emission Calculation and Testing Requirements.</u>

The requirements set forth under this condition serve to:

- establish the requirements of the conditions in which performance testing shall be performed;
- establish the requirement of the owner/operator to give at least thirty (30) days prior notice to the Administrator of any performance test to afford the Administrator opportunity to have an observer present; and
- reference the performance testing requirements established pursuant to CP25-136B and Construction Permit #158A.

(G) Acid Rain Requirements.

The requirements set forth under this condition serve to incorporate the applicable requirements of 40 CFR Part 72,73,75,77, and 78 (Acid Rain), as applicable to the source. The requirements set forth under this condition specify the terms by which the source must operate Sheldon Station Units #1 and #2. These paragraphs also incorporate by reference the requirements of the Phase II Acid Rain permit and associated application issued to this facility.

- (H) Applicable Requirements of the Cross-State Air Pollution Rule (abbr. 'CSAPR', also referred to as the 'Transport Rule' or 'TR').

 This condition establishes the source as subject to requirements set
 - forth under 40 CFR Part 97 Transport Rule (TR) or Cross-State Air Pollution Rule (CSAPR) with specific applicability of Subparts AAAAA (TR NO_X Annual Trading Program) and DDDDD (TR SO₂ Group 2 Trading Program).
- (I) Requirements of the National Emissions Standards for Hazardous Air Pollutants Maximum Achievable Control Technology (Source Category NESHAP MACT) Requirements set forth in Title 40, Part 63 of the Code of Federal Regulations (40 CFR Part 63).

- establish 40 CFR Part 63 Subpart UUUUU as an applicable requirement for the Units #1 and #2, to identify the provisions of Subpart UUUUU that apply specifically to the source, and to incorporate the applicable emission limits, work practice standards, and operating limits for Units #1 and #2.
- Sheldon Station Units #3 and #4 Requirements. As authorized by Condition XXXI of this permit, the Director has determined the following to be applicable requirements of this permit. These conditions apply to the emission units set forth in Table 38 of the proposed permit.

(A) Emission Limits and Emission Control Requirements.

The requirements set forth under this condition serve to:

- incorporate by reference the particulate matter emission limits in accordance with Article 2, Section 20 of the LLCAPCPRS;
- incorporate by reference the opacity limits in accordance with Article 2, Section 20 of the LLCAPCPRS;
- incorporate by reference the sulfur oxide emission limits in accordance with Article 2, Section 24 of the LLCAPCPRS; and
- incorporate by reference any applicable emission limits or emission control requirements established pursuant to CP25-136B and Construction Permit #158A.

(B) <u>Monitoring Requirements.</u>

The requirements set forth under this condition serve to:

- establishes the requirement to demonstrate compliance with the emission limits set forth under paragraph (A)(1) of this condition through the use of technically valid emission rate calculations using emission factors obtained from the 5th Edition of AP-42;
- establishes the requirement to demonstrate compliance with the opacity limit set forth in paragraph (A)(2) of this condition through performing a visible emissions observation once during each calendar month for combustion turbine(s) which are operated on fuel oil; and
- incorporates the applicable provisions to demonstrate compliance with paragraph (A)(3) of this condition.

(C) <u>Record Keeping Requirements.</u>

The requirements set forth under this condition serve to:

- establish the requirement of the owner/operator to demonstrate compliance with the emission limit in paragraph (A)(1) and (A)(3) of this condition through the use of emission factors established in AP-42;
- ensure that the owner/operator keeps adequate records of fuel oil shipments on-site;
- ensure that the owner/operator keeps records of all visible emission observations pursuant to paragraph (B)(2) of this condition; and
- ensure that the owner/operator adequately maintains records to demonstrate that sources representatives are 'trained in EPA Test Method 9'.
- (D) Requirements of the National Emissions Standards for Hazardous Air Pollutants Maximum Achievable Control Technology (Source Category NESHAP MACT) Requirements set forth in Title 40, Part 63 of the Code of Federal Regulations (40 CFR Part 63).

In accordance with the provisions set forth in 40 CFR Part 63, Subpart YYYY §63.6085 and §63.6090(a)(1), Sheldon Station Units #3 and #4 are affected sources subject to regulation under Subpart YYYY. However, in accordance with the provision set forth in §63.6090 paragraph (b)(4),

Units #3 and #4 do not have to meet the requirements of Subpart YYYY, nor of Subpart A of Part 63.

- (E) Applicable Requirements of the Cross-State Air Pollution Rule (abbr. 'CSAPR', also referred to as the 'Transport Rule' or 'TR').

 This condition establishes the source as subject to requirements set forth under 40 CFR Part 97 Transport Rule (TR) or Cross-State Air Pollution Rule (CSAPR) with specific applicability of Subparts AAAAA (TR NO_X Annual Trading Program) and DDDDD (TR SO₂ Group 2 Trading
- XXXVI <u>Sheldon Station Auxiliary Boiler Requirements.</u> As authorized by Condition XXXI of this permit, the Director has determined the following to be applicable requirements of this permit. These conditions apply to the emission units set forth in Table 39 of the proposed permit.
 - (A) Requirements of the National Emissions Standards for Hazardous Air Pollutants Maximum Achievable Control Technology (Source Category NESHAP MACT) Requirements set forth in Title 40, Part 63 of the Code of Federal Regulations (40 CFR Part 63).

The requirements set forth under this condition serve to:

- incorporate the applicable requirements of Subpart DDDDD, as well as 40 CFR Part 63, Subpart A, as applicable to Emission Units 5-1 and 6-1 (Auxiliary Boilers #1 and #2).
- XXXVII Sheldon Station Coal, Fuel Additive, and Fly Ash Process Equipment Requirements. As authorized by Condition XXXI of this permit, the Director has determined the following to be applicable requirements of this permit. These conditions apply to the emission units set forth in Table 40 of the proposed permit.
 - (A) Emission Limits and Emission Control Requirements.

The requirements set forth under this condition serve to:

- reference the opacity limit set forth under 40 CFR Part 60, Subpart Y as it applies to the equipment listed in Table 40-E1 of the proposed permit;
- reference the opacity standard established in Condition XX(C) of the proposed permit, as applicable to those units not covered by an opacity standard in 40 CFR Part 60, Subpart Y; and
- establish the requirement to maintain compliance with the process weight rate particulate matter (PM) emission standards for emission units in Table 40-A3 in accordance with Condition XX(A) of the proposed permit.
- (B) Monitoring Requirements.

Program).

- reference the methodology and observation points to be used for monitoring exhaust opacity for the emission units listed in Table 40-B1 of the proposed permit;
- establish the requirement of the owner/operator to demonstrate, and continue to demonstrate, compliance with the emission limit in paragraph (A)(3) of this condition through the use of emission factors established in AP-42.

(C) Record Keeping Requirements.

The requirements set forth under this condition serve to:

- ensure that all records of visible emissions monitoring procedures are adequately maintained, and include all information required in Condition XXXVI(B)(2)(i) of the proposed permit;
- ensure that the owner/operator adequately maintains records to demonstrate that 'qualified observers' are 'trained in EPA Test Method 9'; and
- ensure all records of emission rate calculations are maintained to demonstrate compliance with the emission limits set forth in paragraph (A)(3) of this condition.

(D) Reporting Requirements.

The requirements set forth under this condition serve to:

- ensure that the owner/operator comply with all applicable reporting requirements established pursuant to 40 CFR Part 60, Subpart Y, which are set forth in paragraph (E)(2) of this condition.
- (E) Requirements of the New Source Performance Standard (NSPS) set forth in Title 40, Part 60 of the Code of Federal Regulations (40 CFR Part 60).

The requirements set forth under this condition serve to:

- establish the emission units that are subject to the requirements of 40 CFR Part 60, Subpart Y;
- incorporate the applicable requirements set forth under 40 CFR Part 60, Subpart Y by reference;
- incorporate the applicable requirements set forth under 40 CFR Part 60, Subpart A by reference;
- ensure that the units are operated in such a manner that their contributions to air pollution are minimized; and
- ensure records of occurrence and duration of any startup, shutdown, or malfunction of the emission units listed in Table 40-E1 are adequately maintained.
- XXXVIII Sheldon Station Emergency Stationary Reciprocating Internal Combustion
 Engines (RICE) Requirements. As authorized by Condition XXXI of this permit, the Director has determined the following to be applicable requirements of this permit. These conditions apply to the emission units set forth in Table 41 of the proposed permit.
 - (A) Requirements of the National Emissions Standards for Hazardous Air Pollutants Maximum Achievable Control Technology (Source Category NESHAP MACT) Requirements set forth in Title 40, Part 63 of the Code of Federal Regulations (40 CFR Part 63).

- incorporate the applicable requirements of Subpart ZZZZ, as well as 40 CFR Part 63, Subpart A, as applicable to Emission Unit 46-1;
- incorporate the applicable requirements of Subpart ZZZZ, as well as 40 CFR Part 63, Subpart A, as applicable to Emission Unit 47-1; and
- incorporate the applicable requirements of Subpart ZZZZ, as well as 40 CFR Part 63, Subpart A, as applicable to Emission Units 48-1 and 49-1.

6.01.03 – Operating Permit Attachments

- <u>Attachment A: Permit Shield</u> The table contained in this attachment establishes equipment at this facility that are shielded from applicability of certain federal regulations, and briefly explains the reasons why the cited regulations are not applicable to the associated equipment.
- Attachment B: Requirements of PSD Construction Permit CP25-136B This attachment incorporates the specific conditions of CP25-136B. As is mentioned in the attachment, the 'General Conditions' of the construction permit were not incorporated into the attachment, because many are reflected in the 'General Conditions' of the operating permit.
- Attachment C: Requirements of PSD Construction Permit No. 158A This attachment incorporates the specific conditions of Construction Permit #158A. As is mentioned in the attachment, the 'General Conditions' of the construction permit were not incorporated into the attachment, because many are reflected in the 'General Conditions' of the operating permit.
- <u>Attachment D: Compliance Assurance Monitoring (CAM) Plan</u> This attachment incorporates the CAM plan submitted by NPPD with the operating permit renewal request. The Department has approved this CAM plan.
- Attachment E: Applicable Requirements of the Cross-State Air Pollution Rule (abbr. 'CSAPR', also referred to as the 'Transport Rule' or 'TR') for Sheldon Station Units #1, #2, #3, and #4 This attachment incorporates the requirements set forth under 40 CFR Part 97 Transport Rule (TR) or Cross-State Air Pollution Rule (CSAPR) with specific applicability of Subparts AAAAA (TR NO_X Annual Trading Program) and DDDDD (TR SO₂ Group 2 Trading Program). These conditions are based on model permit guidance from the U.S. EPA.

6.02 - CP25-136B Conditions and Requirements

6.02.01 – General Conditions

Conditions I through XXV are general conditions that are applicable to all sources obtaining a construction permit. There will not be an in-depth discussion of these requirements, except to note the following General Conditions specifically related to monitoring, reporting, notification, and record-keeping:

VI - Fees

XI – Annual Emission Reporting

XII(B) - Notification of Source Modifications

XVII(E) - 'Credible Evidence Rule'

XVIII – Startup, Shutdown, and Malfunction (SSM) Provisions

6.02.02 - Specific Conditions

The following are specific conditions of the proposed modified CP25-136B:

This permit authorizes the owner/operator to install and operate equipment and systems associated with the "LOI Reduction Project" for Emission Unit 2 (Sheldon Station Unit #2). The owner/operator shall install and operate equipment and systems associated with the "LOI Reduction Project" for Emission Unit 2 (EU-2) in accordance with the approved application and the

following conditions, which have been determined to meet the requirements for Best Available Control Technology (BACT) pursuant to Article 2, Section 19 of the LLCAPCPRS and 40 CFR Part 52 §52.21:

(A) Operational Requirements.

The requirements set forth under this condition serve to:

 ensure that the units are operated in such a manner that their contributions to air pollution are minimized through the use of combustion controls.

(B) <u>Emission Limits.</u>

The requirements set forth under this condition serve to:

• incorporate applicable limits for emissions of carbon monoxide from EU-2, and reference emission calculation procedures.

(C) <u>Emission Testing Requirements.</u>

The requirements set forth under this condition serve to:

- incorporate the protocols in which Relative Accuracy Test Audits (RATA) shall be performed;
- incorporate by reference any applicable testing requirements established pursuant to applicable sections of the LLCAPCPRS; and
- ensure that the Department is aware of all performance tests conducted and the results of such tests.

(D) Monitoring Requirements.

The requirements set forth under this condition serve to:

- incorporate the appropriate methods for calculations of CO emissions rates to ensure compliance with the CO emission limits;
- ensure that initial compliance with the CO emission limit is demonstrated in a timely manner through the use of a Continuous Emission Monitoring System (CEMS); and
- ensure the CEMS is operated in accordance with the specifications set forth in the Construction Permit.

(E) Record Keeping Requirements.

The requirements set forth under this condition serve to:

- ensure that the owner/operator keeps records in accordance with the applicable New Source Performance Standards (NSPS) provisions;
- establish the required monitoring information that shall be maintained; and
- ensure all required records are maintained for the time period specified in the construction permit, as well as what support information must be provided.

(F) Reporting Requirements.

- ensure the Department is made aware of any exceedances of the CO emission limit set forth in this Construction Permit;
- ensure the Department is made aware of exceedances of monitor downtime associated with EU-2;

- require the owner/operator to submit an annual average of the CO emission rate for each calendar year;
- ensure the owner/operator submits all criteria air pollutant and hazardous air pollutant emissions on an annual basis;
- ensure the Department is made aware of any intent of the owner/operator to conduct any RATAs in a timely manner; and
- ensure test results are submitted within the time period specified in the Construction Permit.

(G) Additional Applicable Requirements.

The requirements set forth under this condition serve to:

 ensure the stack height associated with EU-2 has been appropriately increased according to the specifications under this paragraph before operation.

Section 7 – Summary of Permit Conditions Enforceable by Agency

- (1) LLCHD (Local) All conditions indicated in this permit.
- (2) EPA (Federal) All conditions indicated in this permit, with the exception of Condition I(E) (i.e. Lincoln Municipal Code Requirements).

Section 8 - Compliance Assurance Monitoring

It has been determined that 40 CFR Part 64 applies to this facility. The Part 70 (Title V) operating permit specifies a continuous compliance determination method as defined in 40 CFR Part 64, §64.1 for all emission units affected by the CAM requirements. NPPD has submitted a CAM plan for the affected emission units, and the Department has approved the CAM plan as satisfying the requirements for 40 CFR Part 64.

Section 9 – Pollution Prevention Opportunities

The Department encourages the source to continually examine its operations for pollution prevention opportunities. The Department's Technical Assistance Program can provide resources to aid the facility in exploring available pollution prevention options.

A guidance document outlining possible pollution prevention opportunities can be found on LLCHD's Air Quality webpage at the link below or by scanning the QR code.



https://www.lincoln.ne.gov/files/sharedassets/public/v/1/health-dept/environmental/air-quality-forms-amp-apps/pollutionpreventionopportunities.pdf

Section 10 – Environmental Justice Considerations

The Department utilized the U.S. EPA's Environmental Justice Screening Tool (EJSCREEN) to determine if there are environmental justice concerns in the area surrounding this facility. The U.S. EPA's 'Technical Guidance for Assessing Environmental Justice in Regulatory Analysis' (June 2016) states that, "When using EJSCREEN, the 80th percentile is a suggested starting point for the purpose of identifying geographic areas in the United States that may warrant further consideration, analysis, or outreach. That is, if any of the EJ indexes for the areas under consideration are at or above the 80th percentile nationally, then further review may be appropriate."

For rural areas, the Department analyzes a 2-mile radius around the center of the regulated facility. The EJSCREEN analysis performed by LLCHD personnel for this permitting action indicated that, in the 2-mile radius surrounding the approximate center of the facility, there is an affected population of approximately 440 people. For that population, all 'Environmental Justice Indexes' were lower than the 80th percentile nationally. It is worth noting that that all 'Environmental Burden Indicators' and 'Supplemental Indexes' were also lower than the 80th percentile nationally.

For the 'Socioeconomic Indicators' provided by the EJSCREEN tool, all indicators were lower than the 80th percentile nationally, with the exception of 'Over Age 64'.

It is the Department's determination that the operation of this facility will have no measurable detrimental air quality impacts on nearby populations as related to environmental justice.

Section 11 - Air Quality Program Recommendation

The Department proposes approval of a Class I Operating Permit and significant modification to the construction permit for this facility. Enforceable permit conditions have been provided in the draft permit. A final determination on this permit will be made following the opportunity of the public to comment on the draft permit, and any comments received have been addressed.

Section 12 – Public Participation

The following notice is scheduled for publication in August 14, 2025 edition of the Lincoln Journal Star, which is a newspaper of general circulation in Lancaster County, Nebraska.

This notice, along with the draft permit, statement of basis, and permit application will also be made available on the Lincoln-Lancaster County Health Department (LLCHD) Air Quality Program website at the following URL: http://lincoln.ne.gov/city/health/environ/Air/PubNot.htm

PUBLIC NOTICE

LINCOLN-LANCASTER COUNTY HEALTH DEPARTMENT (LLCHD)

- A. In accordance with Article 2, Section 14 of the Lincoln-Lancaster County Air Pollution Control Program Regulations and Standards (LLCAPCPRS), the LLCHD gives notice of the preliminary determination to approve the following permitting action(s) identified below for the source as specified in item 'B' following this section. The 30-day public comment period commences August 14, 2025 and ends on September 13, 2025.
 - 1. Proposed issuance of a Class I operating permit renewal
 - 2. Proposed significant modification of PSD Construction Permit #136A
- B. Issuance of the proposed permit allows for operation of the subject emission source within Federal, State and Local requirements. Provided below are the name, address, and the North America Industry Classification System (NAICS) code describing the nature of business at the subject emission source:
 - 1. Owner/Operator Name: Nebraska Public Power District
 - 2. Source Name: Nebraska Public Power District Sheldon Station
 - 3. Source Address: 4500 West Pella Road, Hallam, NE 68368
 - 4. NAICS Code(s): 221112: Fossil Fuel Electric Power Generation

221122: Electric Power Distribution

- C. Potential emissions exceed the Class I operating permit thresholds set forth under Article 2, Section 5 of the LLCAPCPRS. As a result, this source will be classified as a 'major source' of emissions and issued a Class I operating permit.
- D. The proposed permit will allow for emissions of the following regulated air pollutants in the associated quantities. Any regulated pollutants not listed herein either will not be emitted from the

permitted emissions units, or emissions will be negligible. All quantities are in units of tons per year (tpv).

Particulate matter <10 micrometers in diameter (PM ₁₀)	767.80 tpy
Particulate matter < 2.5 micrometers in diameter (PM _{2.5})	462.37 tpy
Oxides of Nitrogen (NOx)	16,531.78 tpy
Oxides of Sulfur (SO ₂ , SO ₃ , and combinations thereof)	34,019.61 tpy
Volatile Organic Compounds (VOC)	96.48 tpy
Carbon Monoxide	17,399.17 tpy
Lead	6.94 tpy
Greatest Individual Hazardous Air Pollutant	52.55 tpy
Total Combined Hazardous Air Pollutants	85.85 tpy
Carbon Dioxide Equivalents	3,583,045.45 tpy

- E. Lancaster County is an 'attainment/unclassifiable' area for all pollutants subject to the National Ambient Air Quality Standards (NAAQS), meaning air quality in Lancaster County meets or is cleaner than the national standards. This permitting action is not expected to change that status.
- F. The proposed permit, statement of basis, operating permit application, and a copy of this public notice document are available online at: http://lincoln.ne.gov, keyword search "air". Those materials are also available for inspection during business hours at the office of the LLCHD at 3131 O Street, Lincoln, NE 68510. Telephone inquiries regarding this public notice may be directed to the Air Quality Program at (402) 441-8040. If alternate formats of materials are needed, please notify the Department by calling (402) 441-8040 or (402) 441-6284 for TDD users.
- G. Within the 30-day public comment period, any interested person, agency, or group may submit comments on the proposed permit(s), or request or petition the Director of the LLCHD for a public hearing in accordance with item 'H' below. Comments on the proposed permit(s) may be mailed to the attention of the Air Quality Section Supervisor at the address provided in item 'F' above, or submitted via e-mail to health@lincoln.ne.gov using the subject line 'Comment on Air Quality Permit'. Individuals commenting via e-mail are asked to provide their home address and phone number for follow-up correspondence.
- H. Requests for public hearing must be made in writing and must state the nature of the issues to be raised and all arguments and factual grounds supporting their position. If a public hearing is granted by the Director, the hearing will be advertised by public notice at least 30 days prior to its occurrence.
- I. The LLCHD does not discriminate on the basis of race, color, national origin, disability, age, or sex in administration of its programs or activities, and LLCHD does not intimidate or retaliate against any individual or group because of their participation in or opposition to actions protected or prohibited by 40 CFR Part 7, or for the purpose of interfering with any right or privilege guaranteed by 40 CFR Part 7.