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

Lincoln-Lancaster County Health Department

Lincoln-Lancaster County Health Department

Environmental Public Health Division
Air Quality Section
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LLCHD Air Quality Section Facility Identification Number (FID#):	**00130**

Effective Duration of Permit:

Effective Date:	**##-##-2025** MM-DD-YYYY	**Expiration Date:**	**##-##-2025** MM-DD-YYYY

A Title V Permit to Operate a Class I Source of Air Contaminants is Hereby Issued to:

Permit Holder Name:	**Lincoln Electric System Rokeby Generating Station**
Address:	**8000 SW 12th Street**
City, State, ZIP:	**Lincoln, Lancaster County, Nebraska, 68523**

This permit is issued for operation of the following source:

Facility Site Name:	**Lincoln Electric System Rokeby Generating Station**
Facility Address:	**8000 SW 12th Street**
City, County, State, ZIP:	**Lincoln, Lancaster County, Nebraska, 68523**
Facility NAICS:	**221112: Fossil Fuel Electric Power Generation**

Environmental Public Health Division / Air Quality Section Recommendation:

Permit Writer:	☐ **Approve Issuance** ☐ **Deny Issuance**	PERMIT WRITER APPROVAL
Air Quality Section Supervisor:	☐ **Approve Issuance** ☐ **Deny Issuance**	SUPERVISOR APPROVAL
Environmental Public Health Division Manager:	☐ **Approve Issuance** ☐ **Deny Issuance**	MANAGER APPROVAL

Health Director / Air Pollution Control Officer Authorization:

ACTION TAKEN: ☐ **Approve Issuance** ☐ **Deny Issuance**	_____ **Date**	_____ **Kerry Kernen, MPA, MSN, RN** **Health Director**

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Definitions

Unless otherwise defined, or a different meaning is clearly required by context, the terms used in this permit shall be as defined in Lincoln-Lancaster County Air Pollution Control Program Regulations and Standards (LLCAPCPRS) Article 2, Section 1 (Definitions).

Abbreviations, Symbols, and Units of Measure

Abbreviations, symbols, and units of measure used in this permit shall be as follows:

AP-42	Compilation of Air Pollutant Emission Factors, Volume I, Stationary Point and Area Sources
BACT	Best Available Control Technology
bhp	Brake horsepower
BMP	Best Management Practice
Btu	British thermal unit
bu	Bushel
CAA	Clean Air Act
CDT/CST	Central Daylight Time/Central Standard Time
CE	Control equipment
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
cf or ft^3	Cubic feet
CFR	Code of Federal Regulations
CO	Carbon monoxide
CO_2	Carbon dioxide
CO_2e	CO_2 equivalent
C.P.	Construction permit
CPMS	Continuous Parametric Monitoring System
dscf	Dry standard cubic feet
dscfm	Dry standard cubic feet per minute
EMIS	Emergency Management Information System
EP	Emission point
ESP	Electrostatic precipitator
EU	Emission unit
FID#	Facility Identification Number
FDCP	Fugitive dust control plan
FGR	Flue gas recirculation
FIP	Federal Implementation Plan
FR	Federal Register
ft	Feet
FTIR	Fourier Transform Infrared
GHGs	Greenhouse gases
gpm	gallons per minute
H_2S	Hydrogen sulfide
HAP	Hazardous air pollutant
hp	Horsepower
hr	Hour
kW	Kilowatt
kWh	Kilowatt-hour
lb	Pound
LDAR	Leak detection and repair
LLCAPCPRS	Lincoln-Lancaster County Air Pollution Control Program Regulations and Standards
LLCHD	Lincoln-Lancaster County Health Department
LNB	Low-NO_X burner
MACT	Maximum Achievable Control Technology
Mgal	One thousand gallons
MMBtu	One million British thermal units
MMscf	One million standard cubic feet
MW	Megawatt
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_2	Nitrogen dioxide
NO_X	Nitrogen oxides
NSPS	New Source Performance Standard
NSR	New Source Review
PAL	Plant-wide applicability limit
Pb	Lead (chemical abbreviation)
PEMS	Predictive Emissions Monitoring System
PM	Particulate matter
PM_{10}	Particulate matter with and aerodynamic diameter equal to or less than 10 microns
$PM_{2.5}$	Particulate matter with and aerodynamic diameter equal to or less than 2.5 microns
ppb	Parts per billion
ppm	Parts per million
ppmv	Parts per million by volume
ppmvd	Parts per million by volume, dry basis
PSD	Prevention of Significant Deterioration of Air Quality
PTE	Potential to emit
RVP	Reid vapor pressure
RATA	Relative Accuracy Test Audit
RMP	Risk Management Plan
RTO	Regenerative thermal oxidizer
§	Section
scf	Standard cubic feet
SDS	Safety Data Sheet
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO_2	Sulfur dioxide
SO_X	Sulfur oxides
TDS	Total dissolved solids
TO	Thermal oxidizer
TO/HRSG	Thermal oxidizer with heat recovery steam generator
tpy	Tons per year
TRS	Total reduced sulfur
TSP	Total suspended particulate matter
ULNB	Ultra low-NO_X burner
ULSD	Ultra low-sulfur diesel (maximum sulfur content of 15 ppm)
UST	Underground storage tank
US EPA	United States Environmental Protection Agency
UTM	Universal Transverse Mercator
VHAP	Volatile hazardous air pollutant
VMT	Vehicle miles traveled
VOC	Volatile organic compound

Description of Permitting Action

Lincoln Electric System (hereinafter referred to as 'LES', 'the owner/operator', or 'the source') has applied to renew a Class I (Title V) operating permit for the Rokeby Generating Station in Lincoln, Nebraska. LES submitted the air quality operating permit renewal application on August 24, 2023, meeting the requirement for a 'timely' submittal in LLCAPCPRS Article 2, Section 7, paragraph (B)(6).

As a 'major source' of emissions, LES is required to hold a Class I operating permit for the Rokeby Generating Station. This permit incorporates any changes made to the facility subsequent to issuance of the previous Class I (Title V) operating permit.

Permitting Action Regulatory Provisions

This operating permit is being renewed in accordance with the applicable provisions of Article 2, Section 12 of the Lincoln-Lancaster County Health Department Air Pollution Control Program Regulations and Standards (LLCAPCPRS), as well as all other applicable provisions of the LLCAPCPRS. Compliance with this permit shall not be a defense to any enforcement action for violation(s) of an ambient air quality standard, or any other local, state, or Federal requirement.

Source Description

Lincoln Electric System (LES) has submitted an application to renew the Class I operating permit for the 'Rokeby Generating Station'. This facility is a fossil-fuel powered electric generating utility that utilizes three (3) combustion turbines for electric power generation. The combustion turbines are capable of burning both natural gas and № 2 fuel oil. There is also a 'blackstart' generating unit, to which two diesel-fired engines are connected, allowing the plant to startup from a total electrical outage.

Permitted Source

For the purposes of this permit, the following emission units constitute the 'Permitted Source.'

Emission Unit	SCC Code	Emission Point Description	Emission Segment Description
1-1	2-01-001-01	660.0 MMBtu/hr Combustion Turbine #1	Fuel Oil
1-2	2-01-002-01	660.0 MMBtu/hr Combustion Turbine #1	Natural Gas
2-1	2-01-001-01	882.0 MMBtu/hr Combustion Turbine #2	Fuel Oil
2-2	2-01-002-01	882.0 MMBtu/hr Combustion Turbine #2	Natural Gas
3-1	2-01-001-01	1037.0 MMBtu/hr Combustion Turbine #3	Fuel Oil
3-2	2-01-002-01	1037.0 MMBtu/hr Combustion Turbine #3	Natural Gas
4-1	2-02-001-02	16.75 MMBtu/hr Black Start Engine #1	Fuel Oil
5-1	2-02-001-02	16.75 MMBtu/hr Black Start Engine #2	Fuel Oil
6-1	2-02-001-02	Fire Pump Engine (282 hp – 1.90 MMBtu/hr)	Diesel

Insignificant Activities

The source may operate 'Insignificant Activities', which are described in the instructions for Section 4, Insignificant Activities, of the operating permit renewal application. Insignificant activities may include diesel fuel storage tanks, space heaters, or propane or natural gas fired combustion units, such as boilers or other small combustion units, with a heat input capacity of less than eight (8) or ten (10) million British thermal units per hour (MMBtu/hr), respectively. Insignificant activities at this source include:

Insignificant Activity	Additional Information
Fuel Oil Storage Tank	2,000,000 gallon capacity - № 2 Fuel Oil Storage

Insignificant Activity	Additional Information
Unit 1 NG Fuel Heater	2.0 MMBtu/hr; NG Fired; Average 321 hrs/yr of service (based on 2011)
Unit 2 NG Fuel Heater	2.0 MMBtu/hr; NG Fired; Average 246 hrs/yr of service (based on 2011)
Unit 3 NG Fuel Heater	2.0 MMBtu/hr; NG Fired; Average 851 hrs/yr of service (based on 2011)
W. Material Storage Bldg. Heater	Natural Gas Fired, 0.2 MMBtu/hr
E. Material Storage Bldg. Heater	Natural Gas Fired, 0.2 MMBtu/hr
40 CFR Part 60, Subparts K, Ka, and Kb do not apply to the diesel oil storage tank as the vapor pressure of № 2 fuel oil does not reach applicability thresholds. As a result, this tank is classified as insignificant activities.	

Facility Regulatory Classification

- This source is an area source (a.k.a. minor source) of hazardous air pollutants (HAP).
- This source is a major source of air pollution in accordance with: LLCAPCPRS Article 2, Section 2, paragraph (B); 40 CFR Part 70 §70.2; and, 40 CFR Part 52 in accordance with §52.21(b)(1)(i).
- This permit allows for operation of units that are subject to the following applicable New Source Performance Standards (NSPS) in Title 40, Part 60 of the Code of Federal Regulations (40 CFR 60):
  - Subpart A – General Provisions
  - Subpart IIII – Stationary Compression Ignition Internal Combustion Engines
  - Subpart GG – Stationary Gas Turbines
- This permit allows for operation of units that are subject to the following applicable National Emissions Standards for Hazardous Air Pollutants for Source Categories (Source Category NESHAPs) in Title 40, Part 63 of the Code of Federal Regulations (40 CFR 63):
  - Subpart A – General Provisions
  - Subpart ZZZZ – Stationary Reciprocating Internal Combustion Engines
- This source is subject to the Compliance Assurance Monitoring (CAM) requirements in Title 40, Part 64 of the Code of Federal Regulations (40 CFR 64).
- This source is subject to Chemical Accident Prevention Provisions in Title 40, Part 68 of the Code of Federal Regulations (40 CFR 68).
- This facility is subject to the Acid Rain requirements in Title 40, Parts 72, 73, 75, 77, and 78 of the Code of Federal Regulations
- This facility is subject to the Protection of the Stratospheric Ozone requirements in Title 40, Part 82 of the Code of Federal Regulations (40 CFR 82).
- This source is subject to the requirements of Cross-State Air Pollution Rule (CSAPR), also referred to as the 'Transport Rule', established pursuant to the following portions of the Federal Register (FR):
  - 76 FR 48208 (August 8, 2011)
  - 76 FR 80760 (December 27, 2011)
  - 77 FR 10324 (February 21, 2012)
  - 77 FR 34830 (June 12, 2012)
  - 79 FR 71663 (December 3, 2014)
- This source is subject to the Mandatory Greenhouse Gas Reporting requirements in Title 40, Part 98 of the Code of Federal Regulations (40 CFR 98), including the following subparts:
  - Subpart A – General Provisions
  - Subpart C – General Stationary Fuel Combustion Sources
  - Subpart D – Electricity Generation

EPA Review and Affected States Review

Pursuant to Article 2, Section 14 of the Lincoln-Lancaster County Health Department Air Pollution Control Program Regulations and Standards, the public has been notified by prominent advertisement of this permit for operation of an air contaminant source, and the thirty (30) day period allowed for comments has elapsed, and all comments received have been addressed. Pursuant to Article 2, Section 13 of the LLCAPCPRS, the Environmental Protection Agency (EPA) and all affected States have been notified of this permit. The forty-five (45) day EPA review period has elapsed, and all comments provided by the EPA and affected States have been addressed.

Permitting Authority

The permitting authority for this project is the Air Quality Section in the Environmental Public Health Division of the Lincoln-Lancaster County Health Department (LLCHD). All documents related to applications for permits to operate any emissions unit or source must be submitted to the LLCHD at the following address.

Lincoln-Lancaster County Health Department
% Air Quality Section
3131 'O' Street
Lincoln, NE 68510

Compliance Authorities

- All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the following:

  Lincoln-Lancaster County Health Department
  % Air Quality Section
  3131 'O' Street
  Lincoln, NE 68510

- If required or requested by the EPA, the owner/operator shall submit reports, tests, and/or notifications to the following:

  US EPA Region 7
  ECAD/AB–Nebraska Air Compliance Coordinator
  11201 Renner Blvd.
  Lenexa, KS 66219

PERMIT CONDITIONS BEGIN ON FOLLOWING PAGE

Regulations

I. Applicable and Non- Applicable Regulations & Requirements.

(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: Regulations and Standards	
§1	Definitions
§2	Major Sources – Defined
§4	Ambient Air Quality Standards
§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	Operating Permit Modifications – Reopening for Cause
§16	Stack Heights – Good Engineering Practice (GEP)
§17	Construction Permits – When Required
§18	New Source Performance Standards (NSPS)
§20	Particulate Limitations and Standards
§21	Compliance Assurance Monitoring (CAM)
§23	National Emission Standards for Hazardous Air Pollutants (NESHAPs)
§24	Sulfur Compound Emissions – Existing Sources – Emission Standards
§26	Acid Rain
§27	Hazardous Air Pollutants – Maximum Achievable Control Technology (MACT)
§28	Hazardous Air Pollutants — Source Category Emissions Standards
§29	Operating and Construction Permit Emissions 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 Regulations 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

(B) The following Federal Regulations, including 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 52: Approval and Promulgation of Implementation Plans	
Subpart	*Subpart Title*
A	General Provisions (refer specifically to 52.21; Prevention of Significant Deterioration of Air Quality)
40 CFR Part 60: New Source Performance Standards (NSPS)	
Subpart	*Subpart Title*
A	General Provisions
IIII	NSPS for Stationary Compression Ignition Internal Combustion Engines
GG	NSPS for Stationary Gas Turbines
40 CFR Part 63: National Emission Standards for Hazardous Air Pollutants for Source Categories (Source Category NESHAPs)	
Subpart	*Subpart Title*
A	General Provisions
ZZZZ	NESHAP for Reciprocating Internal Combustion Engines
40 CFR Part 64: Compliance Assurance Monitoring	
40 CFR Part 68: Chemical Accident Prevention Provisions	
40 CFR Part 72: Permits Regulation	
40 CFR Part 73: Sulfur Dioxide Allowance System	
40 CFR Part 75: Continuous Emission Monitoring	
40 CFR Part 77: Excess Emissions	
40 CFR Part 78: Appeal Procedures	
40 CFR Part 82: Protection of Stratospheric Ozone	
40 CFR Part 98: Mandatory Greenhouse Gas Reporting	

(C) The following sections of the LLCAPCPRS are <u>not</u> requirements of this permit:

Table 1-C: LLCAPCPRS Regulations not Incorporated in Permit

Article 2: Regulations and Standards	
§4	Ambient Air Quality Standards
§9	General Operating Permits for Class I and II Sources
§10	Operating Pmts. for Temp. Sources & Notification of Relocation of Port. Equip.
§22	Incinerator Emission Standards
§25	Nitrogen Oxides – Emissions Standards for Existing Stationary Sources
§3, §11, §30, §31	Reserved

(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	Entire rule is non-applicable at the time of permit issuance
40 CFR Part 63	All subparts, except those listed as applicable in Table 1-B

(E) The following regulation(s) set forth under Title 129 of the Nebraska Administrative Code (Nebraska Air Quality Regulations) are applicable to this source:

Table 1-E: Non-Applicable State Air Quality Regulations

Regulation	Regulation Title
Chapter 19	Prevention of Significant Deterioration of Air Quality

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

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

Chapter	Chapter Title
8.06	Air Pollution

General Conditions

II. In accordance with paragraph (C) of LLCAPCPRS Article 1, Section 2 (Unlawful Acts – Permits Required), it is unlawful to:
- (A) Construct or operate an air pollution source without first obtaining a permit required under the LLCAPCPRS;
- (B) Violate any term or condition of this permit or any emission limit set in this permit; or
- (C) Violate any emission limit or standard established in the LLCAPCPRS.

III. Violations, hearings, and orders shall be conducted in accordance with LLCAPCPRS Article 1, Section 3 (Violations – Hearings – Orders).

IV. Appeals shall be conducted in accordance with LLCAPCPRS Article 1, Section 4 (Appeal Procedure).

V. In accordance with LLCAPCPRS Article 1, Section 5 (Variance), any person who owns or is in control of any plant, building, structure, process, or equipment may apply to the LLCHD for a variance from rules or regulations. Any person who is applying for or has obtained a variance must comply with all requirements of Article 1, Section 5 of the LLCAPCPRS, as applicable.

VI. The following provisions of LLCAPCPRS Article 1, Section 6 (Fees) are requirements of this permit:
- (A) Paragraph (A) – Annual Emission Fees: In accordance with paragraph (A)(1) of LLCAPCPRS Article 1, Section 6 (Fees), any person who owns or operates a source as defined in Article 2, Section 1 of the LLCAPCPRS and is required to obtain a Class I or Class II operating permit in accordance with Article 2, Section 5 of the LLCAPCPRS, or is required to obtain a construction permit in accordance with Article 2, Section 17 of the LLCAPCPRS, must pay annual emission fees in accordance with all applicable provisions set forth under Article 1, Section 6, paragraph (A) of the LLCAPCPRS.
- (B) Paragraph (D) – In accordance with paragraph (D)(2) of Section 6, Any person or source required to obtain an operating permit under Article 2, Section 5 shall pay a permit fee for activities included under paragraphs (D)(2)(a-e) of Section 6. The permit fee shall be charged at the rate specified in paragraph (D)(2) of Section 6. Any person required to submit fees pursuant to Section 6 shall submit the fees to the Director by check or other authorized transfer payable to the Lincoln-Lancaster County Health Department. The fees shall be due and payable within thirty (30) days after issuance of the permit.
- (C) Paragraph (H) – All fees provided for herein must be payable to the Lincoln-Lancaster County Health Department. All money collected shall be deposited with the City Treasurer's Office and credited to Fund 145 Title V Clean Air Fund.

VII. The following provisions of LLCAPCPRS Article 1, Section 7 (Compliance – Actions to Enforce – Penalties for Non-Compliance) are requirements of this permit:

(A) Paragraph (A) – The County Attorney or Attorney General may institute enforcement proceedings pursuant to Neb. Rev. Stat., §81-1504(23), Neb. Rev. Stat. §81-1508, Neb. Rev. Stat. §81-1508.01, Neb. Rev. Stat. §81-1508.02, or Nebr. Rev. Stat. §81-1528(2) against any person who fails to comply with the requirements of the LLCAPCPRS. Nothing in the LLCAPCPRS shall preclude the control of air pollution by resolution, ordinance, or rule, regulation, or standard not in actual conflict with the state air pollution control regulations. (Ref: Neb. Rev. Stat. §71-1631(15)).

(B) Paragraph (B) – Any person who fails to comply with the requirements of the LLCAPCPRS or who fails to perform any duty imposed by the LLCAPCPRS shall be subject to a civil penalty of not more than ten thousand dollars ($10,000) per day per violation pursuant to Neb. Rev. Stat. §81-1508.02.

(C) Paragraph (C) – Any person who knowingly and willfully fails to comply with the requirements of the LLCAPCPRS or who knowingly and willfully fails to perform any duty imposed by the LLCAPCPRS shall be subject to criminal prosecution under Neb. Rev. Stat. §81-1508.01.

(D) Paragraph (D) – Enforcement proceedings may include injunctive relief in court to restrain any violation that creates an imminent and substantial endangerment to the public health or to the environment pursuant to Neb. Rev. Stat. §81-1508.

VIII. In accordance with LLCAPCPRS Article 1, Section 8 (Procedure for Abatement), if the Director has determined a violation of the Air Pollution Control Program after any hearing required hereunder or if the Director has probable cause to believe a violation has occurred, the Director shall refer the matter to the County Attorney.

IX. In accordance with LLCAPCPRS Article 1, Section 9 (Severability), if any clause, paragraph, or section of the LLCAPCPRS shall be held invalid, it shall be conclusively presumed that the City and County would have enacted the remainder of the LLCAPCPRS not directly related to such clause, paragraph, or section.

X. The following provisions of LLCAPCPRS Article 2, Section 2 (Major Sources – Defined) are requirements of this permit:

(A) Paragraph (A) – Hazardous Air Pollutants--A major source of hazardous air pollutants is defined as:

(1) For pollutants other than radionuclides, any stationary source or any group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit, in the aggregate, ten (10) tons per year (tpy) or more of any hazardous air pollutant listed in Appendix II or III of the LLCAPCPRS, twenty-five (25) tpy or more of any combination of such hazardous air pollutants, or such lesser quantity as the Administrator may establish by rule. Notwithstanding the preceding sentence, emissions from any oil or gas exploration or production well (with its associated equipment) and emissions from any pipeline compressor or pump station shall not be aggregated with emissions from other similar units, whether or not such units are in a contiguous area or under common control, to determine whether such units or stations are major sources for hazardous air pollutants. All fugitive emissions must be considered in determining whether a stationary source is a major source.

(2) For radionuclides, “major source” shall have the meaning specified by the Administrator by rule.

(B) Paragraph (B) – Except as otherwise expressly provided for under the provisions of Section 2, for all regulated pollutants (except Hazardous Air Pollutants, lead, and radionuclides[1]), a major stationary source of air pollutants is defined according to the provisions set forth in paragraphs (B)(1)-(4) of Section 2.

(C) Paragraph (C) – A major stationary source of air pollutants is defined as one which emits, or has the potential to emit five (5) tons per year or more of lead.

(D) Paragraph (D) – Any physical change that would occur at a stationary source not otherwise qualifying as a major stationary source, shall be considered a major stationary source, if the change by itself would constitute a major stationary source.

(E) Paragraph (E) – A major stationary source that is major for volatile organic compounds (VOC) or nitrogen oxides (NO_X) shall be considered major for ozone.

(F) Paragraph (F) – For the purposes of LLCAPCPRS Article 2, Section 17, paragraph (M), a 'major stationary source' includes sources meeting the criteria set forth in LLCAPCPRS Article 2, Section 2, paragraphs (F)(1)-(4).

(G) Paragraph (G) – Major sources, for purposes of Class I operating permits, means any stationary source (or group of stationary sources that are located on one or more contiguous or adjacent properties, and are under common control of the same person or persons under common control) belonging to a single major industrial grouping and that are described in paragraphs (A) through (F) of Section 2. For the purposes of defining "major source", a stationary source or group of stationary sources shall be considered part of a single industrial grouping if all of the pollutant emitting activities at such source or group of sources on contiguous or adjacent properties belong to the same Major Group (i.e., all have the same two-digit code) as described in the Standard Industrial Classification Manual, 1987.

(H) Paragraph (F) – For the purposes of the Prevention of Significant Deterioration of Air Quality Program (PSD), a 'major stationary source' includes sources meeting the criteria set forth in LLCAPCPRS Article 2, Section 2, paragraphs (H)(1)-(4).

(I) Paragraph (I) – Major source of particulate matter, for purposes of Class I operating permits, shall be determined based on the potential to emit PM_{10}.

XI. The following provisions of LLCAPCPRS Article 2, Section 5 (Operating Permits – When Required) are requirements of this permit:

(A) Paragraph (A)(1) – This source is required to obtain a Class I operating permit, as the source is a major source as defined in Article 2, Section 2 of the LLCAPCPRS.

(B) Paragraph (C) – This operating permit is issued only for the emission units included in the approved permit application.

XII. The following provisions of LLCAPCPRS Article 2, Section 6 (Emissions Reporting – When Required) are requirements of this permit:

(A) Paragraph (A) – The owner/operator must complete and submit to the Department an annual emissions inventory on forms furnished by or acceptable to the Department by March 31 of each year. The inventory must include all emissions associated with the emission units included in the Permitted Source. The inventory form must be certified in accordance with Condition XIII(B) of this permit.

[1] – Major sources of Hazardous Air Pollutants and radionuclides shall be defined according to the applicable provisions set forth in paragraph (A) of Section 2. Major sources of lead shall be defined according to the provisions set forth in paragraph (C) of Section 2.

(B) Paragraph (B) – The annual emissions inventory must include the information set forth under paragraphs (B)(1-3) of Section 6.

(C) Paragraph (C) – Actual emissions shall be calculated using the methods and procedures set forth under paragraphs (C)(1-9) of Section 6.

(D) Paragraph (D) – Except as otherwise provided in (C) above, any other test methods and procedures for use in determining actual emissions must be approved by the LLCHD.

(E) The LLCHD may require the submittal of supplemental information to verify or otherwise assure the quality of emissions reported.

XIII. The following provisions of LLCAPCPRS Article 2, Section 7 (Operating Permits – Application) are requirements of this permit:

(A) Paragraph (B)(6) – For purposes of permit renewal, a timely application is one that is submitted at least six (6) months prior to the date of permit expiration or such longer time as may be approved by the Director after notice to the owner/operator that ensures that the permit will not expire before the permit is renewed. In no event shall this time be greater than eighteen (18) months.

(B) Paragraph (H) – All reports and compliance certifications submitted must contain certification by a responsible official of truth, accuracy, and completeness. This certification must state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

XIV. The following provisions of LLCAPCPRS Article 2, Section 8 (Operating Permits – Content) are requirements of this permit:

(A) Paragraph (C)(1) – This permit is issued for a fixed term of five (5) years from the date of issuance.

(B) Paragraph (C)(2) – The conditions of an expiring permit shall continue until the effective date of a new permit, provided that the owner/operator has submitted a timely application, and the Director does not issue a new permit with an effective date before the expiration date of the previous permit.

(C) Paragraph (D)(2)(a) – The owner/operator must maintain records of required monitoring information, which must include the following:

(1) The date and place (as defined in permit), and time of sampling or measurements;

(2) The date(s) analyses were performed;

(3) The company or entity that performed the analyses;

(4) The analytical techniques or methods used;

(5) The results of such analyses; and

(6) The operating conditions existing at the time of sampling or measurement.

(D) Paragraph (D)(2)(b) – The owner/operator must retain records of all required monitoring data and support information for a period of at least sixty (60) months from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. The owner/operator must also maintain all records required by the Specific Conditions of this permit for a period of at least sixty (60) months from the date of origin. These records must be readily accessible and made available for inspection upon request by the Department.

(E) Paragraph (D)(3)(a) – The owner/operator must submit reports of applicable monitoring requirements and instances of deviations from permit requirements every six (6) months to the

Department. These reports must be submitted by August 15th to cover the reporting period of January 1st through June 30th, and by February 15th to cover the reporting period of July 1st through December 31st of the previous year. A responsible official must certify the reports, as well as any other document required by this permit. If the timing of the semi-annual report is such that it may be combined with the report required in paragraph (R) of this condition, a semi-annual report shall be submitted only once each year, six (6) months after the report required in paragraph (R) is submitted. If the owner/operator elects to combine the report required under paragraph (R) with the semi-annual monitoring and deviation report, the report required under paragraph (R) must contain all required elements for semi-annual monitoring and deviation reporting.

(F) Paragraph (D)(3)(b) – The owner/operator must report deviations from permit requirements, identify the probable cause of the deviations, and list corrective actions or preventative measures taken. All reports of the deviations must be submitted within the time frames specified in paragraphs (1)-(3), below. The report may be submitted initially without a certification if an appropriate certification is provided within ten (10) days thereafter, together with any corrected or supplemental information required concerning the deviation. The following schedule will be followed to report the deviations:

(1) Any deviation resulting from emergency or upset conditions must be reported within two working days of the date on which the owner/operator first becomes aware of the deviation.

(2) Any deviation that poses an imminent and substantial danger to public health, safety, or the environment must be reported as soon as is practicable.

(3) All other deviations will be reported as specified in paragraph (E) of this condition.

(G) Paragraph (F) – The unchallenged permit requirements shall remain valid in the event of a challenge to any portions of the permit.

(H) Paragraph (G)(1) – The owner/operator must comply with all conditions of the Class I permit. Any permit noncompliance shall constitute a violation of the LLCAPCPRS and the Act, and is grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or for denial of a permit renewal application.

(I) Paragraph (G)(2) – It shall not be a defense for an owner/operator in an enforcement action to claim that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(J) Paragraph (G)(3) – The permit may be modified; revoked, reopened, and reissued; or terminated for cause in accordance with the provisions of LLCAPCPRS. The filing of a request by the owner/operator for a permit modification, revocation and re-issuance, or termination, or of a notification of planned changes or anticipated noncompliance does not supersede any permit condition.

(K) Paragraph (G)(4) – This operating permit does not convey any property rights of any sort, or any exclusive privilege.

(L) Paragraph (G)(5) – The owner/operator must furnish to the Department, within the time specified by the Department, any information requested by the Department in writing to determine whether cause exists for modifying, revoking and reissuing; or terminating the permit or to determine compliance with the permit. Upon request, the owner/operator must also furnish to the Department, copies of records required to be kept in accordance with the permit or, for information claimed to be confidential, the owner/operator may furnish such records along with a claim of confidentiality pursuant to Neb. Rev. Stat. §84-712.05.

(M) Paragraph (G)(6) – The owner/operator must maintain a copy of the permit application, including any supporting emission calculations or other related materials, on file at the location of the source or at the owner's or operator's main or corporate office.

(N) Paragraph (G)(7) – The owner/operator must place a copy of the permit and of the letter of transmittal on file at the location of the source no later than fourteen (14) calendar days after the date of the letter of transmittal. A copy of the permit must also be placed on file at the owner's or operator's main or corporate office no later than thirty (30) calendar days after the date of the letter of transmittal.

(O) Paragraph (J) – Conditions under which this permit may be reopened for cause, revoked and reissued, or terminated are as specified under Conditions XVI(D)-(E) of this permit.

(P) Paragraph (L)(2) – Upon presentation of credentials and other documents as may be required by law, the owner/operator must allow the Department, the Administrator, or an authorized representative to perform the following:

(1) Enter upon the permittee's premises at reasonable times where a source subject to a Class I operating permit is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

(2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

(3) Inspect at reasonable times any facilities, pollution control equipment, including monitoring and air pollution control equipment, practices, or operations regulated or required under the permit; and

(4) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(Q) Paragraph (L)(3) – The source has indicated compliance with all applicable requirements, including the specific conditions of this permit, effective at the time of permit issuance, and must continue to comply with these requirements. The source must meet all requirements that become effective during the term of this permit in a timely manner unless a more detailed compliance schedule is expressly required by the applicable requirement.

(R) Paragraph (L)(5) – Certification of compliance with the terms and conditions of this permit for the preceding year must be submitted to the 'Compliance Authorities' listed on page 6 of this permit each year. The report must be submitted by February 15th and must certify compliance with the reporting period for the previous calendar year (January 1st through December 31st). This report must include the following information:

(1) The identification of each term or condition of the permit that is the basis of the certification;

(2) The compliance status;

(3) A determination of whether compliance was continuous or intermittent;

(4) The method[1]s used for determining the compliance status of the source, currently, and over the reporting period; and

(5) Such other facts as the Department may require to determine the compliance status of the source.

(S) Paragraph (M) – The owner/operator must maintain a copy of the permit and of the letter of transmittal on-site. A copy of the permit must also be kept on file at the company's main or corporate office. A copy of the permit must be placed on file at each of the aforementioned locations no later than fourteen (14) calendar days after the date of the letter of transmittal.

(T) Paragraph (N) – The owner/operator has requested a Permit Shield in accordance with paragraph (N)(1) of Section 15. In accordance with 40 CFR Part 70 §70.6 paragraph (f), the Department hereby provides a Permit Shield to the owner/operator with the following conditions:

(1) Attachment A of this permit contains the regulations and requirements that are included under this permit shield, including further detail regarding the non-applicability of select federal regulations.

(2) This permit shield provides that compliance with this permit during its term constitutes compliance with all applicable requirements identified pursuant to LLCAPCPRS Article 2, Section 7 as of the date of permit issuance, provided that:

(a) Such applicable requirements are included and specifically identified in the permit; or

(b) The Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination.

(3) Nothing in this permit shall alter or affect EPA's authority under the provisions of Section 303, Emergency Powers, of the Clean Air Act.

XV. The following provisions of LLCAPCPRS Article 2, Section 12 (Operating Permit Renewal and Expiration) are requirements of this permit:

(A) Paragraph (B) – The expiration of an operating permit terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with LLCAPCPRS Article 2, Section 7, paragraphs (B)-(C).

(B) Paragraph (C) – The conditions of an expired operating permit shall continue until the effective date of a new permit, provided the permittee has complied with LLCAPCPRS Article 2, Section 8, paragraph (C)(3), or until the application for a permit is denied. The LLCHD shall deny the application for a permit if any of the following are true:

(1) The permittee is not in substantial compliance with the terms and conditions of the expired permit, or with a stipulation, agreement, or compliance schedule designed to bring the permittee into compliance with the permit;

(2) The Department, as a result of an action or failure to act on the part of the permittee, has been unable to take final action on the application on or before the expiration date of the permit; or

(3) The permittee has submitted an application with major deficiencies or has failed to properly supplement the application in a timely manner after being informed of the deficiencies.

XVI. The following provisions of LLCAPCPRS Article 2, Section 15 (Permit Modifications – Reopening for Cause) are requirements of this permit:

(A) Paragraph (A) – The owner/operator may request the LLCHD to make an administrative permit amendment in writing by specifying the section of the permit that is to be changed and the reason for the change. The source may implement the changes addressed in the request immediately upon submittal of the request, subject to the Department's final action on the request. Administrative permit amendments include any permit revision that meet the criteria established in paragraphs (A)(1)(a-d) of Section 15.

(B) Paragraph (C) – The owner/operator may request a minor permit modification consistent with the procedures set forth under paragraph (C) of Section 15, provided that the modification meets the criteria established in paragraphs (C)(1)(a-g) of Section 15.

(C) Paragraph (E) – Any modification not meeting the administrative permit amendment criteria in paragraph (A) of Section 15, and/or the minor permit modification criteria in paragraph (C) of Section 15 shall be processed in accordance with the provisions for a significant permit modification established in paragraphs (E)(1-5) of Section 15.

(D) Paragraph (F)(1) – Conditions under which this permit may be reopened, revoked and reissued, or terminated during its term for cause, include but are not limited to:

(1) Additional applicable requirements under the Act or the LLCAPCPRS, which become applicable to this source with a remaining permit term of three (3) or more years. Such reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended;

(2) Additional requirements, including excess emissions requirements that become applicable to an affected source under the acid rain program under Title IV of the Act;

(3) The Administrator determines that the permit must be revoked or reissued to assure compliance with the applicable requirements;

(4) The Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of the permit; and

(5) The Administrator determines that an applicable requirement or applicable requirement under the Act applies which was not identified by the owner/operator in its application.

(E) Paragraph (F)(2) – A permit may be revoked during its term for cause, including but not limited to:

(1) The existence at the facility of unresolved noncompliance with applicable requirements or a term or condition of the permit, and refusal of the owner/operator to agree to an enforceable schedule of compliance to resolve the noncompliance;

(2) The owner/operator has falsely certified or submitted false, incomplete, or misleading information to the Department or EPA;

(3) The LLCHD determines that the permitted facility or activity endangers human health or the environment and that the danger cannot be removed by modification of the permit; or

(4) The owner/operator has failed to pay a penalty owed pursuant to court order, stipulation and agreement, or order issued by the Administrator.

(F) Paragraph (G) – The owner/operator may make changes to a permitted facility without a permit revision if the change is not a modification under LLCAPCPRS Article 2, Sections 18, 23, 27, or 28, the change does not require a construction permit under LLCAPCPRS Article 2, Sections 17 or 19, and the change is allowed under the applicable provisions of paragraphs (G)(1) or (G)(2) of Section 15.

(G) Paragraph (H) – No permit revisions shall be required under any State-approved programs providing for economic incentives, marketable permits, emissions trading or other similar programs or processed for changes that are provided for in the permit.

XVII. In accordance with paragraph (A) of LLCAPCPRS Article 2, Section 16 (Stack Heights – Good Engineering Practice), the degree of emissions limitation required of any source for control of any air pollutant shall not be affected by so much of any source's stack height that exceeds good engineering practice or by any other dispersion technique, except as provided in paragraph (B) of Section 16.

XVIII. In accordance with paragraph (A) of LLCAPCPRS Article 2, Section 17 (Construction Permits – When Required), no person shall cause the construction, reconstruction, or modification at any of the items specified in Article 2, Section 17 of the LLCAPCPRS without first having obtained a construction permit from the Department in the manner prescribed by the LLCAPCPRS.

XIX. The owner/operator must comply with all regulations set forth in LLCAPCPRS Article 2, Section 18 (New Source Performance Standards and Emission Limits for Existing Sources) determined to be applicable to the source

XX. The following provisions of LLCAPCPRS Article 2, Section 20 (Particulate Limitations and Standards) are requirements of this permit:

(A) Paragraph (A) – The owner/operator must limit the emissions of particulates from any processing machine, equipment, device or other articles, or any combination thereof to no greater than the amounts set forth in Table 20-2 of Section 20 during any one (1) hour.

(B) Paragraph (B) – The owner/operator must limit the emissions of particulate matter caused by the combustion of fuel in accordance with the limits set forth in Table 20-1 of Section 20, as they apply based on heat input rating.

(C) Paragraph (E) – The owner/operator must not cause or allow emissions from any emission point that are of opacity equal to or greater than twenty percent (20%), as evaluated by Method 9 in Appendix A of 40 CFR 60, or recorded by a continuous opacity monitoring system operated and maintained pursuant to 40 CFR Part 60 Appendix B, except as provided for in paragraph (D) of this condition.

(D) Paragraph (F) – Emission sources subject to monitoring requirements of Article 2, Section 34, paragraph (E) of LLCAPCPRS are allowed to have one six-minute period per hour of not more than twenty-seven percent (27%) opacity. For the purpose of this permit, this exception applies to any unit equipped with a continuous opacity monitoring system (COMS) installed, calibrated, and operated in accordance with the procedures specified in 40 CFR Part 60 Appendix B.

XXI. The owner/operator must comply with regulations set forth in LLCAPCPRS Article 2, Section 23 (National Emission Standards for Hazardous Air Pollutants), if any are determined to be applicable to the Permitted Source.

XXII. The owner/operator must comply with all regulations set forth in LLCAPCPRS Article 2, Section 28 (Hazardous Air Pollutants – Source Category Emission Standards) determined to be applicable to the source.

XXIII. The following provisions of LLCAPCPRS Article 2, Section 32 (Duty to Prevent Escape of Visible Airborne Dust) are requirements of this permit:

(A) Paragraph (A) – The source must not cause or permit fugitive particulate matter to become airborne in such quantities and concentrations that it remains visible in the ambient air beyond the premise where it originates.

(B) Paragraph (B) – The source must not cause or permit a road, driveway, or open area to be used without applying all such reasonable measures to prevent particulate matter from becoming airborne so that it remains visible beyond the premises where it originates. Such reasonable measures include but are not limited to:

(1) Paving or frequent cleaning of roads, driveways, and parking lots;

(2) Application of water or chemical dust suppressants; and

(3) Planting and maintenance of vegetative ground cover.

XXIV. The following provisions of LLCAPCPRS Article 2, Section 33 (Time Schedule for Compliance) are requirements of this permit:

(A) Paragraph (A) – Except as otherwise noted in specific emission control regulations, compliance with the LLCAPCPRS shall be according to the schedule provided under paragraphs (A)(1-3) of Section 33.

(B) Paragraph (B) – Compliance schedules requiring more than twelve (12) months to conform with applicable rules and regulations to meet National Primary and Secondary Ambient Air Quality Standards will be accomplished in progressive steps. A report will be made in writing to the LLCHD within five (5) days after each step is completed.

(C) Paragraph (C) – Failure to meet time schedules approved in accordance with paragraphs (A)(1-2) of Section 33 shall constitute a violation of the LLCAPCPRS unless a request to amend the time schedule is received at least thirty (30) days before the end of any specified period approved for a particular activity. Such a request to amend the schedule shall contain the same type of information as required for the initial request for variance as described in paragraph (A)(3) of Section 33.

XXV. The following provisions of LLCAPCPRS Article 2, Section 34 (Emission Source Testing and Monitoring) are requirements of this permit:

(A) Paragraph (A) – The Department may require any person responsible for the operation of an emission source to make or have tests made to determine the rate of contaminant emissions from the source whenever it has reason to believe, on the basis of estimates of potential contaminant emissions rates from the source and due consideration of probable efficiency of any existing control device, or visible emission determinations made by an official observer, that existing emissions exceed the limitations required in the LLCAPCPRS. Such tests may also be required pursuant to verifying that any newly installed control device meets performance specifications. Should the Department determine that the test did not represent normal operating conditions or emissions, additional tests may be required. Such a requirement shall be considered as an order and subject to all administrative and legal requirements specified.

(B) Paragraph (B) – Required tests must be conducted in accordance with the test methods and procedures established in paragraphs (B)(1-6) of Section 34. Such tests shall be conducted by reputable, qualified individuals. A written copy of the test results, certified for completeness and accuracy and signed by the person conducting the test, shall be provided to the Department within sixty (60) days of completion of the test unless a different period is specified in the underlying requirements of an applicable federal rule.

(C) Paragraph (C) – The owner or operator of a source must provide notice to the Department at least thirty (30) days prior to testing to afford the Department an opportunity to have an observer present. The Department may, in writing, approve a notice of less than thirty (30) days. If the testing is pursuant to an underlying requirement contained in a federal rule, the notice provisions of the underlying requirement shall apply.

(D) Paragraph (D) – The Department may conduct tests of emissions of contaminants from any stationary source.

(1) Upon written request from the Department, the person responsible for the source to be tested shall cooperate with the Department in providing all necessary test ports in stacks or ducts and such other safe and proper facilities, exclusive of instruments and sensing devices, as may be reasonably required to conduct the test with due regard being given to expenditures and possible disruption of normal operations of the source.

(2) A report concerning the findings of such tests shall be furnished to the person responsible for the source upon request.

(E) Paragraph (F) – The LLCHD may require the owner or operator of any other emission source which is subject to the provisions of these regulations to install, use and maintain such stationary monitoring equipment as is required to demonstrate continuing compliance with any applicable emissions limitations, and to maintain records and make reports regarding such measured emissions to the Department in a manner and on a schedule to be determined by the LLCHD.

(F) Paragraph (G) – When a new or modified stationary source becomes operational, the owner or operator will submit a written report of performance tests (if required) to the LLCHD within sixty (60) days after reaching maximum capacity but not later than one hundred eighty (180) days after the startup of operations. Failure to meet established performance standards will result in withdrawal of the provisional approval granted to operate the new or modified stationary source. Final approval and issuance of an operating permit will be withheld for operation of the affected facility until such time as the owner or operator has corrected the deficiencies determined by the performance tests. Upon satisfactory accomplishment of a valid series of performance tests, approval for operation of the new or modified stationary source will be granted through issuance of an operating permit in accordance with Article 2, Section 5.

(G) Paragraph (H) – Notwithstanding any other provisions of LLCAPCPRS, the following methods may be used to determine compliance with applicable requirements:

(1) A monitoring method approved for the source and incorporated in an operating permit pursuant to LLCAPCPRS Article 2, Section 8;

(2) Any compliance test method specified in the State Implementation Plan (SIP);

(3) Any test or monitoring method approved for the source in a permit issued pursuant to LLCAPCPRS Article 2, Sections 17, 19, or 27;

(4) Any test or monitoring method provided for in the LLCAPCPRS; or

(5) Any other test, monitoring, or information gathering method that produces information comparable to that produced by any method described in paragraphs (1) through (4) of this condition.

(H) Paragraph (I) – Where allowed by the Department, the owner or operator of any PEMS used to meet a pollutant monitoring requirement must comply with all applicable provisions set forth in paragraphs (I)(1-6) of Section 34. Owners/operators of PEMS must apply for approval of a PEMS system in accordance with paragraph (J) of Section 34 and must also comply with all applicable provisions set forth in paragraphs (K)-(O) of Section 34.

XXVI. The following provisions of LLCAPCPRS Article 2, Section 35 (Compliance – Exceptions Due to Startup, Shutdown, or Malfunction) are requirements of this permit:

(A) Paragraph (A) – Upon receipt of a notice of excess emissions issued by the Department, the owner/operator may provide information showing that the excess emissions were the result of a malfunction, start-up, or shutdown.

(B) Paragraph (B) – The information provided by the source operator under paragraph (A) of this condition must include, at a minimum, the information specified in paragraphs (B)(1-9) of Section 35.

(C) Paragraph (C) – The owner/operator must submit the information specified in paragraph (B) of this condition no later than fifteen (15) days after receipt of the notice of excess emissions.

(D) Paragraph (D) – The owner/operator must notify the LLCHD, in writing, whenever a planned start-up or shut down may result in excess emissions. This notice must be mailed, no later than ten (10) days prior to such action and must include, but not be limited to, the information specified in paragraphs (D)(1-10) of Section 35.

(E) Paragraph (E) – The owner/operator must notify the LLCHD, in writing, whenever emissions due to malfunctions, unplanned shutdowns or ensuing start-ups are, or may be, in excess of applicable emission control regulations for one hour or more. Such notification must be mailed within forty-eight (48) hours of the beginning of each period of excess emissions and must include, but not be limited to, the information required in paragraph (D) of Section 35.

(F) Paragraph (H) - Nothing in Section 35 shall be construed to limit the authority of the Director to take appropriate action to enforce the provisions of the LLCAPCPRS.

XXVII. The following provisions of LLCAPCPRS Article 2, Section 36 (Control Regulation Circumvention – When Excepted) are requirements of this permit:

(A) Paragraph (A) – No person shall cause or permit the installation or use of any machine, equipment, device, or other article, or alter any process in any manner which conceals or dilutes the emissions of contaminants without resulting in a reduction of the total amounts of contaminants emitted.

(B) Paragraph (B) – Exception to paragraph (A) above may be granted by the LLCHD, upon request, provided that such action is intended to convert the physical or chemical nature of contaminant emission and that failure to reduce total contaminant emissions results solely from the introduction of contaminants which are not deemed to be detrimental to the public interest.

XXVIII. In accordance with LLCAPCPRS Article 2, Section 37 (Compliance – Responsibility of Owner/Operator Pending Review by Director), application for review of plans or advice furnished by the LLCHD will not relieve the owner or operator of a new or modified stationary source of legal compliance with any provision of the LLCAPCPRS or prevent the Director from enforcing or implementing any provision of the LLCAPCPRS.

XXIX. In accordance with LLCAPCPRS Article 2, Section 38 (Emergency Episodes – Occurrence, Control, and Contingency Plans), if and when the Director declares an air pollution emergency episode as defined in Section 38, the source must perform all applicable Air Pollution Emergency Actions as required by LLCAPCPRS Appendix I, paragraphs 1.3 (a)(1) and 1.3 (b)(1)-(2) until the Director declares the air pollution episode terminated.

XXX. The owner/operator must comply with all applicable provisions of 40 CFR Part 82 – Protection of the Stratospheric Ozone. Affected controlled substances can be found in 40 CFR Part 82, Subpart A – Appendix A (Class I Controlled Substances) and Appendix B (Class II Controlled Substances). The following conditions are requirements of this operating permit:

(A) The owner/operator must comply with the standards for labeling of products containing ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

(1) The following must bear the required warning statement if introduced into interstate commerce pursuant to §82.106:

(a) All containers in which a Class I or Class II substance is stored or transported;

(b) All products containing a Class I substance; and

(c) All products directly manufactured with a Class I substance.

(2) The placement of the required warning statement must comply with the requirements pursuant to §82.108.

(3) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.

(4) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.

(B) The owner/operator must comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVAC) in 40 CFR Part 82, Subpart B:

(1) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.

(2) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.

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

(4) Persons disposing of small appliances, MVAC, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to §82.166. ("MVAC-like appliance" as defined at §82.152)

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

(6) Owner/operator of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.

(C) If any person manufactures, transforms, imports, or exports a Class I or Class II substance at this source, the owner/operator must ensure compliance with all requirements as specified in 40 CFR Part 82, Subpart A (Production and Consumption Controls).

(D) If any person performs service on motor (fleet) vehicles at this source when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the MVAC, the owner/operator must ensure compliance with all applicable requirements as specified in 40 CFR Part 82, Subpart B (Servicing of MVAC). The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.

(E) The owner/operator shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G (Significant New Alternatives Policy Program).

XXXI. Requirements Established Pursuant to Department Authority. Pursuant to the authorities granted in Section 8.06.030 of the Lincoln Municipal Code (LMC 8.06.030 – Air Pollution, Director Powers and Duties), Section 4 of the Lancaster County Air Pollution Control Resolution (R-13-0073), and Neb. Rev. Stat. §81-1504, the following conditions are requirements of this permit:

(A) Permits. The LLCHD shall have the authority to issue, continue in effect, revoke, modify, or deny permits, under such conditions as the LLCHD may prescribe and consistent with the Clean Air Act and the LLCAPCPRS.

(B) Testing and Sampling. The owner/operator shall allow the LLCHD, US EPA, or an authorized representative to conduct tests and take samples of air contaminants, fuel, process materials, or any other substance which affects or may affect discharges or emissions of air contaminants from any source. The owner/operator shall submit air contaminant emission information in connection with such inspections, tests, and studies.

(C) Orders, Abatement, and Pollution Control. The LLCHD, US EPA, or an authorized representative shall have the authority to issue, modify, or revoke orders prohibiting or abating discharges of air pollutants, or requiring the construction of control systems or any parts thereof or the modification, extension, or adoption of other remedial measures to prevent, control, or abate air pollution.

(D) Inspection. The owner/operator shall allow the LLCHD, US EPA, or an authorized representative to enter and inspect or cause to be inspected, during reasonable hours, any building, facility, or place (except a building designed for and used exclusively for a private residence) as the LLCHD deems necessary to determine compliance with the provisions of the LLCAPCPRS.

(E) Record Keeping and Retention. The owner/operator shall allow the LLCHD, US EPA, or an authorized representative access to existing and available records relating to emissions or discharges, which cause or contribute to air pollution or the monitoring of such emissions or discharges. These records shall be readily accessible and made available for inspection upon request by the LLCHD, US EPA, or an authorized representative. For the purposes of this permit, the owner/operator shall retain records of all required monitoring data, reports, and support information required by this permit for a period of at least sixty (60) months from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. All records of required monitoring information shall include the following:

(1) The date and place as defined in the permit, and time of sampling or measurements;
(2) The date(s) analyses were performed;
(3) The company or entity that performed the analyses;
(4) The analytical techniques or methods used;
(5) The results of such analyses; and
(6) The operating conditions existing at the time of sampling or measurement.

Specific Conditions

XXXII. Authority for Specific Conditions. The specific conditions of this permit are in accordance with the requirements of LLCAPCPRS, Article 2, Section 8, paragraphs (M) and (P). ; Construction Permit No. 079C issued March 1, 2019 (Construction Permit No. 079 originally issued on August 31, 1995) (Attachment D); Construction Permit No. 080C issued March 1, 2019 (revision of Construction Permit No. 080 originally issued on October 30, 1995) (Attachment E); Prevention of Significant Deterioration (PSD) Construction Permit No. 101D issued March 1, 2019 (revision of Construction Permit No. 101 originally issued on November 22, 1999) (Attachment F); Construction Permit No. 184 issued September 21, 2016 (Attachment G); or other applicable requirements as indicated. These conditions apply to all emission units not otherwise addressed in a Specific Condition of this permit.

XXXIII. Compliance Assurance Monitoring (CAM).

(A) LES Rokeby Generating Station units #1, #2, and #3 are subject to the requirements of 40 CFR Part 64 for the emissions of nitrogen oxides (NO_X).

(B) All compliance assurance monitoring must be conducted in accordance with the CAM Plan included in Attachment B of this operating permit. All conditions and requirements of the CAM Plan are requirements of this operating permit.

(C) The CAM plan included in Attachment B of this operating permit is operational and has been approved by the Department.

XXXIV. Source-Wide Requirements. As authorized by Condition XXXII 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) Emission Limits and Emission Control Requirements.

(1) In accordance with Construction Permits No. 079C, 080C, and 101D, the owner/operator must limit source-wide emissions of hazardous air pollutants (HAPs) to the quantities set forth in Table 34-A1 below. These limits apply to any period of twelve (12) consecutive months.

Table 34-A1: Source-Wide Limits for Hazardous Air Pollutants (HAPs)

Pollutant	Emission Limit
Any Individual HAP	< 10.0 tons
Total Combined HAPs	< 25.0 tons

(2) The owner/operator must comply with the fugitive particulate emission requirements set forth under Condition XXIII of this permit. If necessary, the owner/operator must apply dust control measures including, but not limited to, application of water and/or chemical dust suppressant to prevent the occurrence of visible particulate matter in the ambient air beyond the property boundary.

(B) Monitoring Requirements.

(1) The following conditions establish the requirements to be met, and procedures to be used by the owner/operator to conduct visible emissions monitoring. For any emission unit(s) subject to visible emissions monitoring requirements pursuant to additional 'Specific Conditions' of this permit, the owner/operator must perform visible emissions surveys in accordance with the following procedure:

(a) The person(s) conducting each 'visible emissions survey' (VES) must be 'trained in EPA Test Method 9', which means:

(i) The individual has attended a visible emissions observer certification program and has participated in the classroom and field observation exercises; and

(ii) The individual must have successfully fulfilled the Certification Requirements in Section 3.1 of EPA Test Method 9 at least once in the five (5) years prior to the date of the VES.

(b) After start-up of the emission unit is complete, the person(s) conducting the VES must:

(i) Select an observation position according to the procedures set forth in Section 2.1 of EPA Test Method 9;

(ii) Perform and record a minimum of twenty-four (24) visible emission observations at fifteen (15) second intervals according to the procedures set forth in Sections 2.3 and 2.4 of EPA Test Method 9 (i.e., total survey time of six (6) minutes); and

(iii) Calculate the average opacity of visible emissions during the 6-minute survey according to the procedures set forth in Section 2.5 of EPA Test Method 9.

(c) After completion of each 6-minute VES, the person(s) conducting each VES must record all information required under paragraph (C)(1) of this condition.

(d) If the average visible emissions opacity is less than twenty percent (< 20%), no further action will be required.

(e) If the average visible emissions opacity is greater than or equal to twenty percent (≥ 20%), the person(s) conducting the VES must either:

(i) Complete the necessary initial corrective action to eliminate the excess visible emissions no later than one (1) hour after completing the survey steps required in paragraph (b) of this condition, and proceed with the actions specified under paragraph (f) of this condition; OR

(ii) A 'qualified observer', who holds valid certification pursuant to the requirements set forth under EPA Test Method 9 in Appendix A-4 of 40 CFR Part 60, must conduct a formal EPA Test Method 9 observation no later than two (2) hours after completing the survey steps required in paragraph (b) of this condition, then proceed with the actions specified under paragraph (g) of this condition.

(f) If corrective action is performed, the person(s) conducting the VES must record the corrective action(s) taken and perform a follow-up VES using the procedures in paragraph (b) of this condition to ensure that the corrective action(s) addressed the excess visible emissions. The follow-up VES must be initiated no more than one (1) hour after completion of the initial corrective action(s). Once the follow-up VES is complete, the person(s) conducting the survey must proceed as follows:

(i) If the average visible emissions opacity is less than twenty percent (< 20%), the person(s) conducting the survey must record the results pursuant to paragraph (c) of this condition, and no further action will be required;

(ii) If the average visible emissions opacity is greater than or equal to twenty percent (≥ 20%), the owner/operator must perform a formal EPA Test Method 9 observation and proceed with the corrective actions specified in paragraph (g) of this condition.

(g) Upon completion of a formal EPA Test Method 9 visible emissions observation, the following actions must be taken:

(i) If the formal EPA Test Method 9 visible emissions observation results in less than twenty percent (< 20%) opacity, the observer must record the observation pursuant to Sections 2.2, 2.4, and 2.5 of EPA Test Method 9, and no further action(s) will be required;

(ii) If the formal EPA Test Method 9 visible emissions observation results in greater than or equal to twenty percent (≥ 20%) opacity, the owner/operator must:

1. Submit a report of excess emissions to the LLCHD within forty-eight (48) hours in accordance with Condition XXVI of this permit; AND
2. No later than one (1) hour after the completion of the formal EPA Test Method 9 observation, the owner/operator must perform corrective action(s) necessary to reduce opacity to less than twenty percent (< 20%). No later than one (1) hour after completing said corrective action(s), a 'qualified observer' must perform an additional EPA Test Method 9 visible emissions observation to ensure that the corrective action(s) addressed the excess visible emissions. The owner/operator must then perform the following based on the results of the follow-up EPA Test Method 9 observation:
   a. If the average visible emissions opacity observed during the follow-up EPA Test Method 9 is less than twenty percent (< 20%), the 'qualified observer' must record the results of the observation and the corrective action(s) taken.
   b. If the average visible emissions opacity observed during the follow-up EPA Test Method 9 is greater than or equal to twenty percent (≥ 20%), the owner/operator must perform additional corrective action(s) necessary to eliminate excess visible emissions. The owner/operator must repeat the actions specified in paragraph (g) of this condition, as needed, until occurrences of excess opacity have been eliminated.

(h) If the observer is unable to conduct a visible emissions survey, or a subsequent EPA Test Method 9 observation, due to visual interferences caused by other visible emission sources (e.g. fugitive emissions during high wind conditions), weather conditions (e.g. fog, heavy rain, or snow which impair visibility), or operations that occur after dark, the observer must note such conditions on the data observation sheet, and conduct a follow-up visible emissions survey as soon as conditions allow.

(i) Opacity monitoring is not required during startups, shutdowns, malfunctions, or during load/performance testing.

(2) The owner/operator must comply with all monitoring requirements set forth in the approved custom fuel-monitoring schedule included as Attachment C to this permit.

(3) The owner/operator must comply with all applicable monitoring requirements set forth in the 'Compliance Assurance Monitoring' (CAM) Plan incorporated in Attachment B of this permit, as well as the Federal Regulations incorporated by reference under the following conditions of this permit:

(a) 'Rokeby #1' NSPS Requirements: XXXV(F)(1)-(2)

(b) 'Rokeby #2' NSPS Requirements: XXXVI(F)(1)-(2)

(c) 'Black Start Engines #1 and #2' NESHAP Requirements: XXXVI(G)(1)
(d) 'Rokeby #2' Acid Rain Requirements: XXXVI(H)(1) (also refer to Attachment H of this permit)
(e) 'Rokeby #3' NSPS Requirements: XXXVII(F)(1)-(2)
(f) 'Rokeby #3' Acid Rain Requirements: XXXVII(G)(1)-(5)
(g) 'Fire Pump Engine' NSPS Requirements: XXXVIII(E)(1)-(2)
(h) 'Fire Pump Engine' NESHAP Requirements: XXXVIII(F)(1)
(i) 'Cross-State Air Pollution Rule' (CSAPR) Requirements (also referred to as the 'Transport Rule' or 'TR'): XXXIX

(C) Record Keeping Requirements

(1) The owner/operator must maintain records of visible emissions surveys performed according to the requirements in paragraph (B)(1) of this condition in order to demonstrate ongoing compliance with the visible emission opacity requirements in Conditions XX(C)-(D) of this permit. These records must include the following:
(a) The name of the person(s) conducting the survey;
(b) The date and the starting time of the survey;
(c) The emission unit for which the survey was performed;
(d) The average opacity of visible emissions, calculated pursuant to paragraph (B)(1)(b)(iii) of this condition;
(e) Any corrective action(s) taken (if applicable);
(f) The results of any follow-up visible emissions survey(s) (if applicable); and
(g) All instances in which a visible emission survey is not performed either due to lack of operation of the respective emission unit(s) during the monitoring period, or due to visual interferences as provided for in paragraph (B)(1)(h) of this condition.

(2) For each EPA Test Method 9 observation performed, the owner/operator must record all information required under paragraph (C)(1) of this condition, as well as all information required in Sections 2.2, 2.4, and 2.5 of EPA Test Method 9.

(3) No more than fifteen (15) days after the end of each calendar month, the owner/operator must calculate emissions as follows:
(a) For EU 1-1/1-2 (i.e., Rokeby #1), EU 2-1/2-1 (i.e., Rokeby #2), and EU 3-1/3-2 (i.e., Rokeby #3), the owner/operator must calculate emissions as follows:
(i) Emissions of NO_X and CO must be calculated and tracked using emissions data obtained from performance testing and the owner/operator's dedicated 'Data Acquisition and Handling System' (DAHS). The most recent performance test data available must be used. The hourly emissions must be computed and tracked for each fuel type (natural gas and No. 2 fuel oil), for all load conditions and water/fuel ratios (water injection system), and with or without inlet cooling for all three turbines.
(ii) Emissions of PM_{10}, SO_2, VOC, and HAPs must be calculated using factors obtained from AP-42, the 5th edition, except as follows:
1. SO_2 emissions must be determined in accordance with the procedure in 40 CFR Part 75, Appendix D[2];
2. For EU 3-1/3-2 (i.e., Rokeby #3), PM_{10} and VOC emissions must be calculated using the hours of operation and the manufacturer's

[2] – EU 1-1/1-2 (i.e., Rokeby #1) is not subject to 40 CFR Part 75. This condition is established for emission calculation purposes only.

guaranteed emission rates for these pollutants, unless performance test data is available.

(b) Emissions of CO and NO_X from EU 4-1 and 5-1 (i.e., Black Start Engines #1 and #2) must be calculated from the emissions data submitted by the engines manufacturer. Emissions of PM_{10}, SO_2, VOC, and HAPs must be calculated using factors obtained from AP-42, the 5th edition.

(c) For EU 3-1/3-2 (i.e., Rokeby #3), the owner/operator must maintain the following records on a monthly basis:

(i) Total number of operating hours;

(ii) Total number of operating hours on No. 2 fuel oil;

(iii) The quantity of natural gas (in 'million cubic feet' or 'MMcf') combusted;

(iv) The quantity of № 2 fuel oil (in 'thousand gallons' or 'Mgal') combusted; and

(v) Emissions (in tons) of the following pollutants:

1. Sulfur dioxide (SO_2);
2. Oxides of nitrogen (NO_X); and
3. Formaldehyde (CH_2O).

(d) For EU 3-1/3-2 (i.e., Rokeby #3), the owner/operator must utilize the totals calculated pursuant to paragraph (C)(3)(c) above to calculate 'rolling 12-month totals' of each required item set forth under paragraph (C)(3)(c) above. The calculated total for each calendar month must be added to the respective calculated totals for the preceding eleven (11) calendar months to develop twelve (12) month consecutive totals.

(4) All records required by the specific conditions of this permit must be kept in accordance with the requirements set forth under Conditions XIV(C)-(D) of this permit.

(5) The owner/operator must comply with all applicable record keeping requirements set forth in the Federal Regulations incorporated by reference under the following conditions of this permit:

(a) 'Rokeby #1' NSPS Requirements: XXXV(F)(1)-(2)

(b) 'Rokeby #2' NSPS Requirements: XXXVI(F)(1)-(2)

(c) 'Black Start Engines #1 and #2' NESHAP Requirements: XXXVI(G)(1)

(d) 'Rokeby #2' Acid Rain Requirements: XXXVI(H)(1) (also refer to Attachment H of this permit)

(e) 'Rokeby #3' NSPS Requirements: XXXVII(F)(1)-(2)

(f) 'Rokeby #3' Acid Rain Requirements: XXXVII(G)(1)-(5)

(g) 'Fire Pump Engine' NSPS Requirements: XXXVIII(E)(1)-(2)

(h) 'Fire Pump Engine' NESHAP Requirements: XXXVIII(F)(1)

(i) 'Cross-State Air Pollution Rule' (CSAPR) Requirements (also referred to as the 'Transport Rule' or 'TR'): XXXIX

(D) Reporting Requirements.

(1) In accordance with the requirements set forth under Construction Permits No. 079C, 080C, and 101D, the owner/operator must report the information required in paragraphs (a)-(e) below no later than 30 days after the end of each semi-annual reporting period (January 1 – June 30, and July 1 – December 31).

(a) For EU 1-1/1-2 (i.e., Rokeby #1), report the following:

(i) Emissions of NO_X and CO for each month of the semi-annual reporting period;

(ii) Rolling 12-month emission totals of NO_X and CO for each month of the semi-annual reporting period;

(iii) Quantities of natural gas and fuel oil combusted during each month of the semi-annual reporting period;

(iv) Rolling 12-month totals of natural gas and fuel oil combustion for each month of the semi-annual reporting period; and

(v) Rolling 12-month totals of hours of operation on each fuel type for each month of the semi-annual reporting period.

(b) For EU 2-1/2-2 (i.e., Rokeby #2), EU 4-1 (Black Start Engine #1), and EU 5-1 (Black Start Engine #2), report the following:

(i) Combined emissions of NO_X and CO from all emission units listed in (1)(b) above for each month of the semi-annual reporting period;

(ii) Rolling 12-month totals of combined emissions of NO_X and CO from all emission units listed in (1)(b) above for each month of the semi-annual reporting period;

(iii) Quantities of natural gas and fuel oil combusted during each month of the semi-annual reporting period;

(iv) Rolling 12-month totals of natural gas and fuel oil combustion for each month of the semi-annual reporting period; and

(v) Rolling 12-month totals of hours of operation on each fuel type for each month of the semi-annual reporting period.

(c) For EU 3-1/3-2 (i.e., Rokeby #3), report the following:

(i) Emissions of NO_X, SO_2, and formaldehyde (CH_2O) for each month of the semi-annual reporting period;

(ii) Rolling 12-month emission totals of NO_X, SO_2, and formaldehyde (CH_2O) for each month of the semi-annual reporting period;

(iii) Quantities of natural gas and fuel oil combusted during each month of the semi-annual reporting period;

(iv) Rolling 12-month totals of natural gas and fuel oil combustion for each month of the semi-annual reporting period;

(v) Rolling 12-month totals of hours of operation on each fuel type for each month of the semi-annual reporting period;

(vi) If formaldehyde (CH_2O) is not the largest single HAP, the owner/operator must report emissions of the largest single HAP in addition to reporting emissions of formaldehyde. The owner/operator must report emissions of the largest single HAP as follows:

1. Total (in pounds or tons) for each month in the semi-annual reporting period; and
2. Rolling 12-month total (in pounds or tons) for each month in the semi-annual reporting period.

(d) For the entire source, emissions of the greatest single HAP, as well as total combined HAPs for each month in the semi-annual reporting period; and

(e) For the entire source, rolling 12-month emission totals for the greatest single HAP, as well as total combined HAPs for each month in the semi-annual reporting period.

(2) The owner/operator must submit SO_2 emissions data for EU 2-1/2-2 (i.e., Rokeby #2) and EU 3-1/3-2 (i.e., Rokeby #3) on a quarterly basis as required by the EPA in accordance with 40 CFR Part 75.

(3) In accordance with the requirements set forth under Condition XII of this permit, the owner/operator must report emissions of all criteria air pollutants and hazardous air pollutants for all emission units included in this operating permit on an annual basis no later than March 31 each year.

(4) Upon request, the owner/operator must submit any and/or all emission records deemed necessary by the Director.

(5) The owner/operator must comply with all applicable reporting requirements set forth in the Federal Regulations incorporated by reference under the following conditions of this permit:

(a) 'Rokeby #1' NSPS Requirements: XXXV(F)(1)-(2)
(b) 'Rokeby #2' NSPS Requirements: XXXVI(F)(1)-(2)
(c) 'Black Start Engines #1 and #2' NESHAP Requirements: XXXVI(G)(1)
(d) 'Rokeby #2' Acid Rain Requirements: XXXVI(H)(1) (also refer to Attachment H of this permit)
(e) 'Rokeby #3' NSPS Requirements: XXXVII(F)(1)-(2)
(f) 'Rokeby #3' Acid Rain Requirements: XXXVII(G)(1)-(5)
(g) 'Fire Pump Engine' NSPS Requirements: XXXVIII(E)(1)-(2)
(h) 'Fire Pump Engine' NESHAP Requirements: XXXVIII(F)(1)
(i) 'Cross-State Air Pollution Rule' (CSAPR) Requirements (also referred to as the 'Transport Rule' or 'TR'): XXXIX

(E) Other Requirements.

(1) Any control or monitoring equipment that may be necessary for compliance with the LLCAPCPRS or any similar requirements of the federal EPA must be installed within the time period or by the date specified in the applicable rule or regulation.

(2) The owner/operator must not make any modifications to 'Rokeby #1' (EU 1-1 and 1-2), 'Rokeby #2' (EU 2-1 and 2-1), 'Rokeby #3' (EU 3-1 and 3-2), Black Start Engines #1 & #2 (EU 4-1 & 5-1) that could affect the nature or the quantity of air pollutants emitted without written approval from the Department. Modifications to 'Rokeby #1', 'Rokeby #2', and 'Rokeby #3' may be subject to the requirements of 40 CFR Part 60, Subpart GG or Subpart KKKK. Modifications to the Black Start Engines (EU 4-1 and 5-1) may be subject to the requirements of 40 CFR Part 60, Subpart IIII.

XXXV. Requirements for LES Rokeby Station Unit #1 – 660.0 MMBtu/hr Combustion Turbine. As authorized by Condition XXXII of this permit, the Director has determined the following to be requirements of this permit for LES Rokeby Station Unit #1 (i.e., Rokeby #1). Unless otherwise specified, the following conditions apply to the emission units included in Table 35-A1 of this condition.

(A) Affected Emission Units.

(1) The affected emission units subject to requirements under Condition XXXV are listed in Table 35-A1, below:

Table 35-A1: Emission Units Subject to Specific Condition XXXV

Emission Unit (EU) #	Emission Unit Description
1-1	660.0 MMBtu/hr Combustion Turbine #1 – Fuel Oil

Table 35-A1: Emission Units Subject to Specific Condition XXXV

Emission Unit (EU) #	Emission Unit Description
1-2	660.0 MMBtu/hr Combustion Turbine #1 – Natural Gas

(B) Emission and Throughput Limits.

(1) In accordance with the requirements set forth in Construction Permit No. 079C, the owner/operator must limit emissions from 'Rokeby #1' to the quantities set forth in Table 35-B1 below. These limits apply to any period of twelve (12) consecutive months.

Table 35-B1: Rolling 12-Month Emission Limits for LES Rokeby Generation Station Unit #1

Pollutant		Emission Limit
NO_X	(Nitrogen Oxides calculated as NO_2, or nitrogen dioxide)	< 249.0 tons
CO	(Carbon Monoxide)	< 249.0 tons

(2) In accordance with the requirements set forth in Article 2, Section 20, paragraph (B) of the LLCAPCPRS, the owner operator must limit emissions from 'Rokeby #1' as required in Table 35-B2 below.

Table 35-B2: Heat Input Rate PM Emission Limits for LES Rokeby Generating Station Unit #1

EU #	Heat Input Rate	Pollutant	Pollutant Limit (lbs/MMBtu)	Pollutant Limit (lbs/hour)
1-1 / 1-2	660.0 MMBtu/hr	PM[1]	0.226	149.16

[1] – 'PM' includes both PM10 and PM2.5, per definition from Article 2, Section 1, Item 118 of the LLCAPCPRS.

(3) In accordance with the requirements set forth in Construction Permit No. 079C, the owner/operator must utilize the associated water injection system when operating 'Rokeby #1' on fuel oil. The water-to-fuel ratio must be sufficient to maintain compliance with the NO_X emission standard set forth in 40 CFR Part 63, Subpart GG §60.332 paragraphs (a)(1)-(2).

(4) In accordance with the requirements set forth in Construction Permit No. 079C, the owner/operator must combust only fuel oil that contains less than or equal to five hundred parts per million of sulfur (≤ 500 ppm, or ≤ 0.05% by weight) when operating Rokeby #1 on fuel oil.

(C) Monitoring Requirements.

(1) Once during each semi-annual monitoring period (refer to Condition XIV(E) for monitoring period dates), the owner/operator must conduct a visible emissions survey (VES) of the stack emissions from 'Rokeby #1', using the procedures established in Condition XXXIV(B)(1) of this permit, when the turbine is operated on fuel oil under 'at load' conditions. A VES is not required during monitoring periods when the turbine is not operated on fuel oil under 'at load' conditions.

(2) In accordance with the requirements set forth in Construction Permit No. 079C, the owner/operator must utilize the 'Data Acquisition and Handling System' (DAHS) to provide hourly tracking of NO_X and CO emissions under various operating scenarios in order to demonstrate compliance with the NO_X and CO emission limits set forth in Table 35-B1 of this condition. The owner/operator must monitor and document the following:

(a) Natural gas and distillate fuel oil combustion at various load conditions and with or without inlet cooling; and

(b) Natural gas and distillate fuel oil combustion with inlet cooling and water injection at various water-to-fuel ratios.

(c) Hourly average NO_X and CO emission rates, in pounds per hour, must be calculated based on the most recent performance test data available.

(d) The owner/operator must develop equations that relate NO_X and CO emissions to natural gas and fuel oil consumption for all turbine operating scenarios utilized. This information must be used to limit the amount of natural gas and fuel oil combusted in order to ensure compliance with the emission limits set forth in Table 35-B1 of this condition.

(3) The owner/operator must perform all required monitoring for 'Rokeby #1' pursuant to the Federal Regulations incorporated in paragraphs (F)(1)-(2) of this condition.

(D) Record Keeping Requirements.

(1) The owner/operator must maintain all required records for 'Rokeby #1' pursuant to Condition XXXIV(C) of this permit.

(2) The owner/operator must maintain all required records for 'Rokeby #1' pursuant to the Federal Regulations incorporated in paragraphs (F)(1)-(2) of this condition.

(E) Reporting Requirements.

(1) The owner/operator must submit all required reports for 'Rokeby #1' pursuant to Condition XXXIV(D) of this permit.

(2) The owner/operator must submit all required reports for 'Rokeby #1' pursuant to the Federal Regulations incorporated in paragraphs (F)(1)-(2) of this condition.

(F) 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).

(1) The owner/operator must comply with all applicable requirements of 40 CFR Part 60, Subpart A (General Provisions), as they relate to applicable requirements for 'Rokeby #1' pursuant to 40 CFR Part 60, Subpart GG. Provisions of Subpart A that are applicable to 'Rokeby #1' include, but are not limited to, the sections and paragraphs cited in Table 35-F1 below:

Table 35-F1: Requirements of 40 CFR Part 60, Subpart A for 'Rokeby #1' (EU 1-1 and 1-2)

Section (§)	Section Description	Applicable Paragraph(s)
§60.7	Notification and Record Keeping	(a); (c)
§60.8	Performance Tests	(a)-(f)
§60.11	Compliance w/ Standards and Maintenance Requirements	(a); (d)
§60.12	Circumvention	Entire Section
§60.13	Monitoring Requirements	(a)-(b); (c)(2); (e)-(i)
Note: Unless otherwise specified, all sub-paragraphs listed in the 'Applicable Paragraphs' column are incorporated as requirements.		

(2) The owner/operator must operate 'Rokeby #1' (EU 1-1 and 1-2) in accordance with the applicable requirements of 40 CFR Part 60, Subpart GG (Standards of Performance for Stationary Gas Turbines). The sections and paragraphs cited in Table 35-F2 below are requirements of this permit:

Table 35-F2: Requirements of 40 CFR Part 60, Subpart GG for 'Rokeby #1' (EU 1-1 and 1-2)

Section (§)	Section Description	Applicable Paragraph(s)
§60.330	Applicability and Designation of Affected Facility	(a); (b)
§60.331	Definitions	Entire Section
§60.332	Standards for Nitrogen Oxides	(a)(1); (b); (f); (i)
§60.333	Standards for Sulfur Dioxide	(b)[a]
§60.334	Monitoring Requirements	(a); (g); (h)(1), (h)(3)-(4); (j)(1)-(3), (j)(5)
§60.335	Test Methods and Procedures	(a)-(c)

[a] – The fuel sulfur limit set forth under this paragraph is less stringent than the limit set forth in paragraph (B)(4) of this condition.

Note: Unless otherwise specified, all sub-paragraphs listed in the 'Applicable Paragraphs' column are incorporated as requirements.

(G) Requirements of the Acid Rain Program Regulations set forth in Title 40, Parts 72 through 78 of the Code of Federal Regulations (40 CFR Parts 72 through 78).

(1) 'Rokeby #1' is not subject to regulation under the rules of the Acid Rain program. The requirements of 40 CFR Part 75 (Continuous Emissions Monitoring) cited by subpart, section, and paragraph in Table 35-G1 below have been identified as relevant provisions pursuant to the 'Cross-State Air Pollution Rule' or 'CSAPR' (also referred to as the 'Transport Rule' or 'TR'). The portions of this rule regarding 'ozone season' do not apply to Rokeby #1, as Nebraska is not required to reduce NO_X emissions during 'ozone season'.

Table 35-G1: Requirements of 40 CFR Part 75 for 'Rokeby #1' (EU 1-1 and 1-2)

Section (§)	Section Description	Applicable Paragraph(s)
Subpart B: Monitoring Provisions		
§75.19	Optional SO_2, NO_X and CO_2 Emissions Calculation for Low Mass Emissions (LME) Units	(a)-(e)
Subpart H: NO_X Mass Emissions Provisions		
§75.70	NO_X Mass Emissions Provisions	(a)-(h)
§75.71	Specific Provisions for Monitoring NO_X and Heat Input for the Purpose of Calculating NO_X Mass Emissions	(d)
§75.72	Determination of NO_X Mass Emissions for Common Stack and Multiple Stack Configurations	1st paragraph of section
§75.73	Record Keeping and Reporting	(a)-(f)
§75.74	Annual and Ozone Season Monitoring and Reporting Requirements	(a)

XXXVI. Requirements for LES Rokeby Generating Station Unit #2 – 882.0 MMBtu/hr Combustion Turbine; and Black Start Engines #1 and #2 – Two (2) 16.75 MMBtu/hr Compression Ignition Internal Combustion Engines. As authorized by Condition XXXII of this permit, the Director has determined the following to be requirements of this permit for LES Rokeby Station Unit #2 (i.e., Rokeby #2), and also Black Start Engines #1 and #2. Unless otherwise specified, the following conditions apply to the emission units included in Table 36-A1 of this condition.

(A) Affected Emission Units.

(1) The affected emission units subject to requirements under Condition XXXVI are listed in Table 36-A1, below:

Table 36-A1: Emission Units Subject to Specific Condition XXXVI

Emission Unit (EU) #	Emission Unit Description
2-1	882.0 MMBtu/hr Combustion Turbine #2 – Fuel Oil
2-2	882.0 MMBtu/hr Combustion Turbine #2 – Natural Gas
4-1	16.75 MMBtu/hr Black Start Engine #1 – Fuel Oil
5-1	16.75 MMBtu/hr Black Start Engine #2 – Fuel Oil

(B) Emission and Throughput Limits.

(1) In accordance with the requirements set forth in Construction Permit No. 080C, the owner/operator must limit the combined emissions from all emission units included in Table 36-A1 above to the quantities set forth in Table 36-B1 below. These limits apply to any period of twelve (12) consecutive months.

Table 36-B1: Rolling 12-Month Emission Limits for LES Rokeby Generating Station Unit #2, Black Start Engine #1, and Black Start Engine #2

Pollutant		Emission Limit
PM_{10}	(Particulate matter less than 10 micrometers diameter)	< 249.0 tons
NO_X	(Nitrogen Oxides calculated as NO_2, or nitrogen dioxide)	< 249.0 tons
SO_2	(Sulfur Dioxide)	< 249.0 tons
VOC	(Volatile Organic Compounds)	< 249.0 tons
CO	(Carbon Monoxide)	< 249.0 tons
Lead		< 2.50 tons

(2) In accordance with the requirements set forth in Article 2, Section 20, paragraph (B) of the LLCAPCPRS, the owner operator must limit emissions from 'Rokeby #2' as required in Table 36-B2 below.

Table 36-B2: Heat Input Rate PM Emission Limits for LES Rokeby Generating Station Unit #2, Black Start Engine #1, and Black Start Engine #2

EU #	Heat Input Rate	Pollutant	Pollutant Limit (lbs/MMBtu)	Pollutant Limit (lbs/hour)
2-1 / 2-2	882.0 MMBtu/hr	PM[1]	0.211	186.02
4-1	16.75 MMBtu/hr	PM[1]	0.532	8.91
5-1	16.75 MMBtu/hr	PM[1]	0.532	8.91

[1] – 'PM' includes both PM10 and PM2.5, per definition from Article 2, Section 1, Item 118 of the LLCAPCPRS.

(3) In accordance with the requirements set forth in Construction Permit No. 080C, the owner/operator must limit the combined hours of operation of EU 4-1 (Black Start Engine #1) and EU 5-1 (Black Start Engine #2) to no more than 500 hours during any consecutive 12-month period.

(4) When operating 'Rokeby #2' on fuel oil, the owner/operator must utilize the associated water injection system. The water-to-fuel ratio must be sufficient to maintain compliance with the NO_X emission standard set forth in 40 CFR Part 63, Subpart GG §60.332 paragraphs (a)(1)-(2).

(5) When operating 'Rokeby #2' on fuel oil, the owner/operator combust only fuel oil that contains less than or equal to five hundred parts per million of sulfur (≤500 ppm, or ≤0.05% by weight).

(C) Monitoring Requirements.

(1) Once during each semi-annual monitoring period (refer to Condition XIV(E) for monitoring period dates), the owner/operator must conduct a visible emissions survey (VES) of the stack emissions from 'Rokeby #2', using the procedures established in Condition XXXIV(B)(1) of this permit, when the turbine is operated on fuel oil under 'at load' conditions. A VES is not required during monitoring periods when the turbine is not operated on fuel oil under 'at load' conditions.

(2) In order to demonstrate compliance with the NO_X and CO emission limits set forth in Table 36-B1 of this condition, and also to calculate emissions as required by Condition XXXIV(C)(3) of this permit, the owner/operator must utilize the 'Data Acquisition and Handling System' (DAHS) to provide hourly tracking of NO_X and CO emissions under various operating scenarios, including the following:

(a) Natural gas and distillate fuel oil combustion at various load conditions and with or without inlet cooling; and

(b) Natural gas and distillate fuel oil combustion with inlet cooling and water injection at various water-to-fuel ratios.

(c) Hourly average NO_X and CO emission rates, in pounds per hour, must be calculated based on the most recent performance test data available.

(d) The owner/operator must develop equations that relate NO_X and CO emissions to natural gas and fuel oil consumption for all turbine operating scenarios utilized. This information, in addition to the emission calculations required pursuant to Condition XXXIV(C)(3)(b) of this permit, must be used to limit the amount of natural gas and fuel oil combusted in order to ensure compliance with the emission limits set forth in Table 36-B1 of this condition.

(3) The owner/operator must perform all required monitoring for 'Rokeby #2' pursuant to the Federal Regulations incorporated in paragraphs (F)(1)-(2) and (H)(1) of this condition.

(4) The owner/operator must perform all required monitoring for Black Start Engines #1 and #2 (if applicable) pursuant to the Federal Regulations incorporated in paragraph (G)(1) of this condition.

(D) Record Keeping Requirements.

(1) The owner/operator must maintain all required records for 'Rokeby #2', as well as Black Start Engines #1 and #2, pursuant to Condition XXXIV(C) of this permit.

(2) The owner/operator must maintain all required records for 'Rokeby #2' pursuant to the Federal Regulations incorporated in paragraphs (F)(1)-(2) and (H)(1) of this condition.

(3) The owner/operator must maintain all required records for Black Start Engines #1 and #2 pursuant to the Federal Regulations incorporated in paragraph (G)(1) of this condition.

(E) Reporting Requirements.

(1) The owner/operator must submit all required reports for 'Rokeby #2' and Black Start Engines #1 and #2 pursuant to Condition XXXIV(D) of this permit.

(2) The owner/operator must submit all required reports for 'Rokeby #2' pursuant to the Federal Regulations incorporated in paragraphs (F)(1)-(2) and (H)(1) of this condition.

(3) The owner/operator must submit reports (if required) for Black Start Engines #1 and #2 (EU 4-1 and 5-1) pursuant to the Federal Regulations incorporated in paragraph (G)(1) of this condition.

(F) 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).

(1) The owner/operator must comply with all applicable requirements of 40 CFR Part 60, Subpart A (General Provisions), as they relate to applicable requirements for 'Rokeby #2' pursuant to 40 CFR Part 60, Subpart GG. Provisions of Subpart A that are applicable to 'Rokeby #2' include, but are not limited to, the sections and paragraphs cited in Table 36-F1 below:

Table 36-F1: Applicable Requirements of 40 CFR Part 60, Subpart A for 'Rokeby #2' (EU 2-1 and 2-2)

Section (§)	Section Description	Applicable Paragraph(s)
§60.7	Notification and Record Keeping	(a); (c)
§60.8	Performance Tests	(a)-(f)
§60.11	Compliance with Standards and Maintenance Requirements	(a); (d)
§60.12	Circumvention	Entire Section
§60.13	Monitoring Requirements	(a)-(b); (c)(2); (e)-(i)

Note: Unless otherwise specified, all sub-paragraphs listed in the 'Applicable Paragraphs' column are incorporated as requirements.

(2) The owner/operator must operate 'Rokeby #2' (EU 2-1 and 2-2) in accordance with the applicable requirements of 40 CFR Part 60, Subpart GG (Standards of Performance for Stationary Gas Turbines). The sections and paragraphs cited in Table 36-F2 below are requirements of this permit:

Table 36-F2: Applicable Requirements of 40 CFR Part 60, Subpart GG for 'Rokeby #2' (EU 2-1 and 2-2)

Section (§)	Section Description	Applicable Paragraph(s)
§60.330	Applicability and Designation of Affected Facility	(a); (b)
§60.331	Definitions	Entire Section
§60.332	Standards for Nitrogen Oxides	(a)(1); (b); (f); (i)
§60.333	Standards for Sulfur Dioxide	(b)[b]
§60.334	Monitoring Requirements	(a); (g); (h)(1), (h)(3)-(4); (j)(1)-(3), (j)(5)
§60.335	Test Methods and Procedures	(a)-(c)

[b] – The fuel sulfur limit set forth under this paragraph is less stringent than the limit set forth in paragraph (B)(5) of this condition.

Note: Unless otherwise specified, all sub-paragraphs listed in the 'Applicable Paragraphs' column are incorporated as requirements.

(G) Requirements of the National Emission Standards for Hazardous Air Pollutants for Source Categories (Source Category NESHAPs) set forth in Title 40, Part 63 of the Code of Federal Regulations (40 CFR Part 63).

(1) The owner/operator must operate Black Start Engines #1 and #2 (EU 4-1 and 5-1, respectively) in accordance with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ (NESHAP for Stationary Reciprocating Internal Combustion Engines). The sections and paragraphs cited in Table 36-G1 below are requirements of this permit:

Table 36-G1: Applicable Requirements of 40 CFR Part 63, Subpart ZZZZ (4Z) for EU 4-1 and 5-1

Section (§)	Section Description	Applicable Paragraph(s)
§63.6580	Purpose	Entire Section
§63.6585	Subject Emission Sources	(a); (c); (d)
§63.6590	Affected Sources	(a)(1)(iii)
§63.6595	Compliance Dates	(a)(1)
§63.6603	Emission & Operating Limits for Existing Stationary RICE Located at Area Sources	(a); also see Table 2d of Subpart 4Z
§63.6605	General Compliance Requirements	(a)–(b)
§63.6612	Initial Compliance Demonstration Deadline for Existing Stationary RICE Located at Area Sources	(a)
§63.6625	Monitoring, Installation, Collection, Operation, and Maintenance Requirements	(e), (e)(3); (h); (i)
§66.6630	Demonstrating Initial Compliance with Emission and Operating Limitations	(a); (c)
§63.6635	Monitoring and Data Collection for Demonstrating Continuous Compliance	(a)–(c)
§63.6640	Demonstrating Continuous Compliance with Emission and Operating Limitations	(a)–(b); (e); also see Tables 6 & 8 of Subpart 4Z
§63.6645	Required Notifications	(a), (a)(5), (h), (h)(1)
§63.6650	Required Reports	(a); (d); (f); also see Table 7 of Subpart 4Z[c]
§63.6655	Required Records	(a); (d); (e); also see Table 6 of Subpart 4Z
§63.6660	Record Retention Requirements	(a)–(c)
§63.6665	Applicable General Provisions	Entire Section; also see Table 8 of Subpart 4Z
§63.6670	Implementation and Enforcement	(a)–(c)
§63.6675	Definitions	Entire Section

[c] – Table 7 of Subpart 4Z does not contain any applicable reporting requirements.

Note: Unless otherwise specified, all sub-paragraphs listed in the 'Applicable Paragraphs' column are incorporated as requirements.

(H) Requirements of the Acid Rain Program Regulations set forth in Title 40, Parts 72 through 78 of the Code of Federal Regulations (40 CFR Parts 72 through 78).

(1) The owner/operator must maintain compliance with the following provisions of the 'Acid Rain Program Regulations', as applicable to 'Rokeby #2':

Table 36-H1: Requirements of the Acid Rain Program as Applicable to 'Rokeby #2' (EU 2-1 / 2-2)

40 CFR Part 72: Permits Regulation	
Subpart	*Subpart Title*
A	Acid Rain Program General Provisions
B	Designated Representative
C	Acid Rain Permit Applications
D	Acid Rain Compliance Plan and Compliance Options
E	Acid Rain Permit Contents
G	Acid Rain Phase II Implementation
H	Permit Revisions
I	Compliance Certification
40 CFR Part 73: Sulfur Dioxide Allowance System	
Subpart	*Subpart Title*
A	Background and Summary
B	Allowance Allocations
C	Allowance Tracking System
D	Allowance Transfers
E	Auctions, Direct Sales, and Independent Power Producers Written Guarantee
F	Energy Conservation and Renewable Energy Reserve
40 CFR Part 75: Continuous Emission Monitoring	
Subpart	*Subpart Title*
A	General
B	Monitoring Provisions
C	Operations and Maintenance Requirements
D	Missing Data Substitution Methods
E	Alternative Monitoring Systems
F	Record Keeping Requirements
G	Reporting Requirements
H	NO_X Mass Emissions Provisions[f]
Appendix A	Specifications and Test Procedures
Appendix B	Quality Assurance and Quality Control Procedures
Appendix C	Missing Data Estimation Procedures
Appendix D	Optional SO_2 Emissions Data Protocol for Gas-Fired and Oil-Fired Units
Appendix E	Optional NO_X Emissions Estimation Protocol for Gas-Fired Peaking Units and Oil-Fired Peaking Units
Appendix F	Conversion Procedures
Appendix G	Determination of SO_2 Emissions
Appendix J	Compliance Dates for Revised Record Keeping Requirements and Missing Data Procedures
40 CFR Part 77: Excess Emissions[d]	

Table 36-H1: Requirements of the Acid Rain Program as Applicable to 'Rokeby #2' (EU 2-1 / 2-2)

40 CFR Part 78: Appeal Procedures for the Acid Rain Program[e]
[d] – This is applicable only if there are excess SO_2 emissions, i.e., above the amounts allowed to these affected units. [e] – This is applicable only if there is an appeal of a decision of the Administrator under the Acid Rain Program. [f] – The portions of this rule regarding 'ozone season' do not apply to Rokeby #2, as Nebraska is not required to reduce NO_X emissions during 'ozone season'.

XXXVII. Requirements for LES Rokeby Generating Station Unit #3 – 1037.0 MMBtu/hr Combustion Turbine.

As authorized by Condition XXXII of this permit, the Director has determined the following to be requirements of this permit for LES Rokeby Generating Station Unit #3 (i.e., Rokeby #3). Unless otherwise specified, the following conditions apply to the emission units included in Table 37-A1 of this condition.

(A) Affected Emission Units.

(1) The affected emission units subject to requirements under Condition XXXVII are listed in Table 37-A1, below:

Table 37-A1: Emission Units Subject to Specific Condition XXXVII

Emission Unit (EU) #	Emission Unit Description
3-1	1037.0 MMBtu/hr Combustion Turbine #3 – Fuel Oil
3-2	1037.0 MMBtu/hr Combustion Turbine #3 – Natural Gas

(B) Emission Limits, Throughput Limits, and Emission Control Requirements.

(1) In accordance with the requirements set forth in Construction Permit No. 101D, the owner/operator must limit emissions from 'Rokeby #3' to the quantities set forth in Table 37-B1 below. These limits apply to any period of twelve (12) consecutive months.

Table 37-B1: Rolling 12-Month Emission Limits for LES Rokeby Generating Station Unit #3

Pollutant		Emission Limit
PM_{10}	(Particulate matter less than 10 micrometers diameter)	≤ 14.60 tons
NO_X	(Nitrogen Oxides calculated as NO_2, or nitrogen dioxide)	≤ 153.12 tons
SO_2	(Sulfur Dioxide)	≤ 82.61 tons
VOC	(Volatile Organic Compounds)	≤ 8.66 tons
CO	(Carbon Monoxide)	≤ 99.00 tons
Lead		≤ 0.03 tons
Formaldehyde (CH_2O)		≤ 4.33 tons

(2) In accordance with the requirements set forth in Article 2, Section 20, paragraph (B) of the LLCAPCPRS, the owner operator must limit emissions from 'Rokeby #3' as required in Table 37-B2 below.

Table 37-B2: Heat Input Rate PM Emission Limits for LES Rokeby Generating Station Unit #3

EU #	Heat Input Rate	Pollutant	Pollutant Limit (lbs/MMBtu)	Pollutant Limit (lbs/hour)
3-1 / 3-2	1,037.0 MMBtu/hr	PM[1]	0.203	210.51

[1] – 'PM' includes both PM10 and PM2.5, per definition from Article 2, Section 1, Item 118 of the LLCAPCPRS.

(3) In accordance with the requirements set forth in Construction Permit No. 101D, the owner/operator must limit nitrogen oxide (NO_X) emissions from 'Rokeby #3' to the quantities in Table 37-B3 below when operating at base load conditions. Pursuant to Construction Permit No. 101D, these emission limits represent the maximum allowable emission rates using 'best available control technology' (BACT).

Table 37-B3: NO_X BACT Emission Limits for LES Rokeby Generating Station Unit #3 Operating at Base Load Conditions

EU #	Fuel Type	Pollutant	Pollutant Limit	Limit Units
3-1	Fuel Oil	NO_X	42.0	ppm @ 15% O_2
		NO_X	152.0	lbs/hour
3-2	Natural Gas	NO_X	25.0	ppm @ 15% O_2
		NO_X	76.0	lbs/hour

(4) In accordance with the requirements set forth in Construction Permit No. 101D, the owner/operator must limit operation of 'Rokeby #3' as follows:

(a) The total combined hours of operation on natural gas and fuel oil must not exceed 3,504 hours during any consecutive 12-month period;

(b) The hours of operation on fuel oil must not exceed 526 hours during any consecutive 12-month period;

(c) The combustion of natural gas must not exceed 2,549 million cubic feet (MMcf) during any consecutive 12-month period;

(d) The combustion of fuel oil must not exceed 3,451,000 gallons (3,451 Mgal) during any consecutive 12-month period.

(5) When operating 'Rokeby #3' on fuel oil, the owner/operator must utilize the associated water injection system. The water-to-fuel ratio must be sufficient to maintain compliance with the NO_X emission standard set forth in 40 CFR Part 60, Subpart GG §60.332 paragraphs (a)(1)-(2).

(6) In accordance with the requirements set forth in Construction Permit No. 101D, the owner/operator combust only fuel oil that contains less than or equal to five hundred parts per million of sulfur (≤500 ppm, or ≤0.05% by weight) when operating 'Rokeby #3' on fuel oil.

(7) The owner/operator must achieve and maintain compliance with the Best Available Control Technology (BACT) Emission Control Requirements set forth under Condition XXXI(E) of Construction Permit No. 101D (**Attachment F**).

(C) Monitoring Requirements.

(1) Once during each semi-annual monitoring period (refer to Condition XIV(E) for monitoring period dates), the owner/operator must conduct a visible emissions survey (VES) of the stack emissions from 'Rokeby #3', using the procedures established in Condition XXXIV(B)(1) of this permit, when the turbine is operated on fuel oil under 'at load' conditions. A VES is not required during monitoring periods when the turbine is not operated on fuel oil under 'at load' conditions.

(2) The owner/operator must perform all required monitoring for 'Rokeby #3' pursuant to the Federal Regulations incorporated in paragraphs (F)(1)-(2) of this condition. Additional information regarding monitoring required pursuant to 40 CFR Part 60, Subpart GG is provided as follows:

(a) In accordance with §60.334 paragraph (a), the owner/operator must install and operate a continuous monitoring system (CMS) to monitor and record the fuel

consumption and the ratio of water to fuel for the water injection system. The CMS must be installed and operational prior to conducting performance tests required pursuant to 40 CFR Part 60, Subpart A §60.8. The CMS must be in continuous operation when in use and must meet minimum frequency of operation requirements. The CMS must be installed such that representative measurements of process parameters from 'Rokeby #3' are obtained.

(b) In accordance with §60.334 paragraph (b), the owner/operator must monitor the sulfur content and nitrogen content of the fuels that are burned. The frequency of monitoring must be according to §60.334 paragraphs (b)(1)-(2), and in accordance with the custom fuel monitoring schedule approved by U.S. EPA Region VII and stipulated in the letter dated January 19, 1999 (Attachment C).

(3) In order to demonstrate ongoing compliance with the NO_X BACT limits (in ppm) established under paragraph (B)(3) of this condition, as well as the NO_X standards established pursuant to 40 CFR Part 60, Subpart GG §60.332 paragraph (a)(1), the owner/operator must conduct the following periodic emission/performance testing at base load conditions for the fuel types indicated and for the time periods specified in paragraphs (a)-(b) below. These monitoring procedures and schedules may be utilized as long as the unit continues to qualify as a gas-fired or oil-fired peaking unit, as defined at 40 CFR Part 72, Subpart A §72.2.

(a) For natural gas combustion, testing of NO_X emissions using a portable gas analyzer must be conducted one (1) time during each calendar year. These annual performance tests are not required during the calendar years when EPA Reference Methods air emission tests are performed in accordance with the requirements of 40 CFR Part 75, Appendix E, 2.2 'Periodic NO_X Emission Rate Testing'. This testing must be conducted in accordance with the following:

(i) Testing must be conducted in accordance with instructions provided by the instrument manufacturer. The instrument must be calibrated and maintained according to the protocol established by the manufacturer.

(ii) Unless indicated otherwise, the sampling ports provided for the EPA Test Method 20 testing must be utilized for the purpose of portable sampling.

(iii) The sampling must be conducted over a one hour (1-hr) period and must consist of six (6) NO_X samples (measured in ppm) taken at ten (10) minute intervals. A compliance determination must be based on the average of the six (6) readings.

(b) For № 2 fuel oil combustion, fuel oil usage and the water-to-fuel ratio, as determined by the continuous monitoring system (CMS), must be monitored once during each calendar year for a period of thirty (30) consecutive minutes. These annual performance tests are not required during the calendar years when EPA Reference Methods air emission tests are performed in accordance with the requirements of 40 CFR Part 75, Appendix E, 2.2 'Periodic NO_X Emission Rate Testing'. This schedule is established only for the purpose of demonstrating compliance with the BACT limit. Monitoring of the water-to-fuel ratio through use of the CMS at all load conditions must continue to be conducted to demonstrate compliance with the applicable requirements of 40 CFR Part 60, Subpart GG when operating on № 2 fuel oil.

(4) In the event that 'Rokeby #3' no longer qualifies as a gas-fired or oil-fired peaking unit, the owner/operator must conduct monitoring and demonstrate compliance with the NO_X

BACT limits (one-hour average basis) using the NOx continuous emissions monitor (CEM) required by the acid rain monitoring rule set forth in 40 CFR Part 75.

(D) Record Keeping Requirements.

(1) In accordance with the requirements set forth in Construction Permit No. 101D, and in accordance with the applicable requirements for 40 CFR Part 60, Subpart GG §60.334, the owner/operator must maintain the following records for 'Rokeby #3'. These records must be maintained on site and must be available for inspection by representatives of the Department and/or the Administrator.

(a) Required water-to-fuel ratio for each load condition specified under 40 CFR Part 60, Subpart GG §60.335 paragraph (c)(2);

(b) Water-to-fuel ratios recorded by the CMS during operation of the water injection system;

(c) Type(s) and amount(s) of fuel combusted, as prescribed in Condition XXXIV(C)(3)(c) of this permit; and

(d) Fuel analyses conducted.

(E) Reporting Requirements.

(1) The owner/operator must submit all required reports for 'Rokeby #3' pursuant to Condition XXXIV(D) of this permit.

(2) In accordance with the requirements set forth in Construction Permit No. 101D, subsequent to the testing required under paragraph (C)(3) of this condition, the owner/operator must report results as follows:

(a) If the testing performed pursuant to paragraph (C)(3)(a) demonstrates compliance with the NO_X BACT limit for natural gas combustion set forth in Table 37-B3, the owner/operator must submit a report of the compliance determination no later than thirty (30) days after completion of the test.

(b) If the testing performed pursuant to paragraph (C)(3)(b) demonstrates that the water-to-fuel ratio recorded at baseload operation is sufficient to demonstrate compliance with the NO_X BACT limit for fuel oil combustion set forth in Table 37-B3, the owner/operator must submit a report of the compliance determination with the report required pursuant to 40 CFR Part 60, Subpart GG §60.334 paragraph (j) (also refer to 40 CFR Part 60, Subpart A §60.7 paragraph (c)).

(c) If testing performed pursuant to paragraphs (C)(3)(a) or (C)(3)(b) of this condition indicate non-compliance with the NO_X BACT limits set forth in Table 37-B3 of this permit, the owner/operator must provide notification of non-compliance to the Department no later than forty-eight (48) hours after the conclusion of the performance/emission test. This notification must include a plan of corrective action to return the unit to compliance.

(3) In accordance with the requirements set forth in Construction Permit No. 101D, the owner/operator must notify the Department of the intent to conduct emission/performance tests no later than thirty (30) days prior to the scheduled date of emission/performance testing. In addition, the owner/operator must submit the results of all required performance tests to the Department no later than sixty (60) days after completion of the test(s), with the exception of test reports required pursuant to paragraph (E)(2) of this condition.

(4) The owner/operator must submit all required reports for 'Rokeby #3' pursuant to the Federal Regulations incorporated in paragraphs (F)(1)-(2) of this condition.

(F) 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).

(1) The owner/operator must comply with all applicable requirements of 40 CFR Part 60, Subpart A (General Provisions), as they relate to applicable requirements for 'Rokeby #3' pursuant to 40 CFR Part 60, Subpart GG. Provisions of Subpart A that are applicable to 'Rokeby #3' include, but are not limited to, the sections and paragraphs cited in Table 37-F1 below:

Table 37-F1: Applicable Requirements of 40 CFR Part 60, Subpart A for 'Rokeby #3' (EU 3-1 and 3-2)

Section (§)	Section Description	Applicable Paragraph(s)
§60.7	Notification and Record Keeping	(a)(2)-(3), (a)(5); (b)-(h)
§60.8	Performance Testing	(a)-(f)
§60.11	Compliance with Standards and Maintenance Requirements	(a); (d); (f)-(g)
§60.12	Circumvention	Entire Section
§60.13	Monitoring Requirements	(a)-(b); (c)(2); (e)-(i)

Note: Unless otherwise specified, all sub-paragraphs listed in the 'Applicable Paragraphs' column are incorporated as requirements.

(2) The owner/operator must operate 'Rokeby #3' (EU 3-1 and 3-2) in accordance with the applicable requirements of 40 CFR Part 60, Subpart GG (Standards of Performance for Stationary Gas Turbines). The sections and paragraphs cited in Table 37-F2 below are requirements of this permit:

Table 37-F2: Applicable Requirements of 40 CFR Part 60, Subpart GG for 'Rokeby #3' (EU 3-1 and 3-2)

Section (§)	Section Description	Applicable Paragraph(s)
§60.330	Applicability and Designation of Affected Facility	(a); (b)
§60.331	Definitions	Entire Section
§60.332	Standards for Nitrogen Oxides	(a)(1)[g], (a)(3); (b); (f); (i)
§60.333	Standards for Sulfur Dioxide	(b)[h]
§60.334	Monitoring Requirements	(a); (g); (h)(1), (h)(3)-(4); (j)(1)-(3), (j)(5)
§60.335	Test Methods and Procedures	(a)-(c)

[g] – The NO_X emission standard set forth under this paragraph of Subpart GG is less stringent than the NO_X limits set forth under Table 37-B3 of this permit.

[h] – The fuel sulfur limit set forth under this paragraph of Subpart GG is less stringent than the limit set forth in paragraph (B)(6) of this condition.

Note: Unless otherwise specified, all sub-paragraphs listed in the 'Applicable Paragraphs' column are incorporated as requirements.

(G) Requirements of the Acid Rain Program Regulations set forth in Title 40, Parts 72 through 78 of the Code of Federal Regulations (40 CFR Parts 72 through 78).

(1) The owner/operator must operate 'Rokeby #3' (EU 3-1 and 3-2) in accordance with the applicable Acid Rain requirements of 40 CFR Part 72 (Permits Regulation). The sections and paragraphs cited in Table 37-G1 below are requirements of this permit:

Table 37-G1: Applicable Requirements of 40 CFR Part 72 for 'Rokeby #3' (EU 3-1 and 3-2)

Section (§)	Section Description	Applicable Paragraph(s)
Subpart A: Acid Rain Program General Provisions		
§72.6	Applicability	(a)(3)(i)
§72.9	Standard Requirements	(a)-(c); (e)-(h)
§72.11	Computation of Time	(a)-(d)
§72.12	Administrative Appeals	Entire Section
§72.13	Incorporation By Reference	(a)-(b)
Subpart B: Designated Representative		
§72.20	Authorization and Responsibilities of the Designated Representative	(a)-(d)
§72.21	Submissions	(a)-(e)
§72.22	Alternate Designated Representative	(a)-(d)
§72.23	Changing the Designated Representative, Alternate Designated Representative; Changes in Owners and Operators	(a)-(c)
§72.24	Certificate of Representation	(a)-(b)
Subpart C: Acid Rain Permit Applications		
§72.30	Requirement to Apply	(a); (b)(2)(ii); (c)-e)
§72.31	Information Requirements for Acid Rain Permit Applications	(a)-(e)
§72.32	Permit Application Shield and Binding Effect of Permit Application	(a)-(d)
Subpart D: Acid Rain Compliance Plan and Compliance Options		
§72.40	General	(a)(1)
Subpart E: Acid Rain Permit Contents		
§72.50	General	(a)(1)-(2); (b)
§72.51	Permit Shield	(a)-(c)
Subpart G: Acid Rain Phase II Implementation		
§72.70	Relationship to Title V Operating Permit Program	(a)-(b)
§72.72	Criteria for State Operating Permit Program	(a)-(b)
§72.73	State Issuance of Phase II Permits	(a)-(b)
Subpart H: Permit Revisions		
§72.80	General	(a)-(e); (g)-(h)
§72.81	Permit Modifications	(a), (c)
§72.82	Fast-track Modifications	(a)-(d)
§72.83	Administrative Permit Amendment	(a)-(d)
§72.84	Automatic Permit Amendment	(a)-(b)
§72.85	Permit Re-openings	(a)-(b); (d)

Table 37-G1: Applicable Requirements of 40 CFR Part 72 for 'Rokeby #3' (EU 3-1 and 3-2)

Section (§)	Section Description	Applicable Paragraph(s)
Subpart I: Compliance Certification		
§72.90	Annual Compliance Certification	(a)-(c)
§72.96	Administrator's Action on Compliance Certifications	(a)-(b)
Appendix	**Appendix Description**	**Applicable Paragraph(s)**
A	Methodology for Annualization of Emissions Limits	Entire Appendix
Appendix	**Appendix Description**	**Applicable Paragraph(s)**
B	Methodology for Conversion of Emissions Limits	Entire Appendix
C	Actual 1985 Yearly SO_2 Emissions Calculation	Entire Appendix
D	Calculation of Potential Electric Output Capacity	Entire Appendix
Note: Unless otherwise specified, all sub-paragraphs listed in the 'Applicable Paragraphs' column are incorporated as requirements.		

(2) The owner/operator must operate 'Rokeby #3' (EU 3-1 and 3-2) in accordance with the applicable Acid Rain requirements of 40 CFR Part 73 (Sulfur Dioxide Allowance System). The sections and paragraphs cited in Table 37-G2 below are requirements of this permit:

Table 37-G2: Applicable Requirements of 40 CFR Part 73 for 'Rokeby #3' (EU 3-1 and 3-2)

Section (§)	Section Description	Applicable Paragraph(s)
Subpart A: Background and Summary		
§73.1	Purpose and Scope	(a)-(d)
§73.2	Applicability	(a)
§73.3	General	Entire Section
Subpart B: Allowance Allocations		
§73.10	Initial Allocations for Phase I and Phase II	(b)
§73.13	Procedures for Submittals	(a)-(b)
§73.20	Phase II Early Reduction Credits	(a)-(f)
Subpart C: Allowance Tracking System		
§73.30	Allowance Tracking System Accounts	(a)-(b)
§73.31	Establishment of Accounts	(a)-(d)
§73.33	Authorized Account Representative	(a)-(g)
§73.34	Recordation in Accounts	(a)-(d)
§73.35	Compliance	(a)-(d)
§73.36	Banking	(a)-(b)
§73.37	Account Error and Dispute Resolution	Entire Section
§73.38	Closing Accounts	(a)-(b)
Subpart D: Allowance Transfers		
§73.50	Scope and Submission of Transfers	(a)-(b)
§73.52	EPA Recordation	(a)-(c)
Subpart D: Allowance Transfers		
§73.53	Notification	(a)-(c)

Table 37-G2: Applicable Requirements of 40 CFR Part 73 for 'Rokeby #3' (EU 3-1 and 3-2)

Section (§)	Section Description	Applicable Paragraph(s)
Note: Unless otherwise specified, all sub-paragraphs listed in the 'Applicable Paragraphs' column are incorporated as requirements.		

(3) The owner/operator must operate 'Rokeby #3' (EU 3-1 and 3-2) in accordance with the applicable Acid Rain requirements of 40 CFR Part 75 (Continuous Emission Monitoring). The sections and paragraphs cited in Table 37-G3 below are requirements of this permit. This table has been formatted to indicate which requirements apply only to peaking units, only to non-peaking units, and/or to both peaking and non-peaking units. The portions of Subpart H of this rule regarding 'ozone season' do not apply to Rokeby #3, as Nebraska is not required to reduce NO_X emissions during 'ozone season'.

Table 37-G3: Applicable Requirements of 40 CFR Part 75 for 'Rokeby #3' (EU 3-1 and 3-2)

Section (§)	Section Description	Peaking Only[1]	Non-Peaking[2]	Both[3]
Subpart A: General		**Applicable Paragraph(s)**		
§75.1	Purpose and Scope	-	-	(a)-(b)
§75.2	Applicability	-	-	(a)
§75.3	General Acid Rain Program Provisions	-	-	(a)-(e); (h)-(j)
§75.4	Compliance Dates	-	-	(b)(2); (f)
§75.5	Prohibitions	-	-	(a)-(f)
Subpart B: Monitoring Provisions		**Applicable Paragraph(s)**		
§75.10	General Operating Requirements	-	(b); (d); (f)	(a); (c); (g)
§75.11	Specific Provisions for Monitoring SO_2 Emissions	-	(b); (c)	(d)
§75.12	Specific Provisions for Monitoring NO_X Emission Rate	(c)(2)	(a)-(b)	-
§75.13	Specific Provisions for Monitoring CO_2 Emissions	-	-	(b)
§75.14	Specific Provisions for Monitoring Opacity	-	(a)	-
Subpart C: Operation and Maintenance Requirements		**Applicable Paragraph(s)**		
§75.20	Certification and Re-certification Procedures	-	(a)-(c)	(g)
§75.21	Quality Assurance and Quality Control Requirements	-	(a)-(e)	-
§75.22	Reference Test Methods	-	(a); (c)	-
§75.24	Out-of-Control Periods and Adjustment for System Bias	-	(d)-(e)	(a)-(c)
Subpart D: Missing Data Substitution Procedures		**Applicable Paragraph(s)**		
§75.30	General Provisions	-	(a)	-
§75.31	Initial Missing Data Procedures	-	(a); (c)	-
§75.32	Determination of Monitor Data Availability for Standard Missing Data Procedures	-	(a); (b)	-
Subpart D: Missing Data Substitution Procedures		**Applicable Paragraph(s)**		
§75.33	Standard Missing Data Procedures for SO_2 , NOx , and Flow Rate	-	(a); (c)	-

Table 37-G3: Applicable Requirements of 40 CFR Part 75 for 'Rokeby #3' (EU 3-1 and 3-2)

Section (§)	Section Description	Peaking Only[1]	Non-Peaking[2]	Both[3]
§75.34	Units With Add-On Emissions Controls		(a); (c)-(d)	
Subpart F: Record Keeping Requirements		**Applicable Paragraph(s)**		
§75.53	Monitoring Plan	-	-	(a)-(d)
§75.57	General Record Keeping Provisions	-	(d); (f)	(a)-(b); (e)
§75.59	Certification, Quality Assurance and Quality Control Record Provisions	-	(a); (c)	(b); (d)
Subpart G: Reporting Requirements		**Applicable Paragraph(s)**		
§75.60	General Provisions	-	-	(a)-(c)
§75.61	Notifications	-	-	(a)-(c)
§75.62	Monitoring Plan	-	-	(a)-(c)
§75.63	Initial Certification or Re-certification Application	-	-	(a)-(c)
§75.64	Quarterly Reports	-	-	(a)-(d)
§75.65	Opacity Reports	-	(a)-(l)	-
§75.66	Petitions to The Administrator	-	(b)	(a); (c); (f)-(i)
Subpart H: NO_X Mass Emissions Provisions		**Applicable Paragraph(s)**		
§75.70	NO_X Mass Emissions Provisions	-	-	(a)-(h)
§75.71	Specific Provisions for Monitoring NO_X and Heat Input for Calculation of NO_X Mass Emissions	-	-	(d)
§75.72	Determining NO_X Mass Emissions for Common Stack and Multiple Stack Configurations	-	-	1st paragraph of section
§75.73	Record Keeping and Reporting	-	-	(a)-(b); (d)-(f)
§75.74	Annual and Ozone Season Monitoring and Reporting Requirements	-	-	(a)
Appendix	**Appendix Description**	**Affected Unit Type(s)**		
A	Specifications and Test Procedures		✔	
B	Quality Assurance and Quality Control Procedures		✔	
C	Missing Data Estimation Procedures		✔	
D	Optional SO_2 Emissions Data Protocol for Gas-Fired and Oil-Fired Units			✔
E	Optional NOx Emissions Estimation Protocol for Gas-Fired Peaking Units and Oil-Fired Peaking Units	✔		
F	Conversion Procedures			✔
G	Determination of CO_2 Emissions			✔
H	Revised Traceability Protocol No. 1	[Reserved]		
J	Compliance Dates for Revised Record Keeping Requirements and Missing Data Procedures	[Reserved]		

Table 37-G3: Applicable Requirements of 40 CFR Part 75 for 'Rokeby #3' (EU 3-1 and 3-2)

Section (§)	Section Description	Peaking Only[1]	Non-Peaking[2]	Both[3]
[1] – Paragraphs or a check mark under this column indicate requirements that apply only to peaking units. [2] – Paragraphs or a check mark under this column indicate requirements that apply only to non-peaking units. [3] – Paragraphs or a check mark under this column indicate requirements that apply to both peaking and non-peaking units. Note: Unless otherwise specified, all sub-paragraphs listed in the 'Applicable Paragraphs' column are incorporated as requirements.				

(4) The owner/operator must operate 'Rokeby #3' (EU 3-1 and 3-2) in accordance with the applicable Acid Rain requirements of 40 CFR Part 77 (Excess Emissions). The sections and paragraphs cited in Table 37-G4 below are requirements of this permit:

Table 37-G4: Applicable Requirements of 40 CFR Part 77 for 'Rokeby #3' (EU 3-1 and 3-2)

Section (§)	Section Description	Applicable Paragraph(s)
§77.1	Purpose and Scope	(a)-(b)
§77.2	General	Entire Section
§77.3	Offset Plans for Excess Emissions of Sulfur Dioxide	(a)-(d)
§77.4	Administrator's Action on Proposed Offset Plans	(a)-(k)
§77.5	Deduction of Allowances to Offset Excess Emissions of Sulfur Dioxide	(a)-(c)
§77.6	Penalties for Excess Emissions of Sulfur Dioxide and Nitrogen Oxides	(a)-(f)
Note: Unless otherwise specified, all sub-paragraphs listed in the 'Applicable Paragraphs' column are incorporated as requirements.		

(5) The owner/operator must operate 'Rokeby #3' (EU 3-1 and 3-2) in accordance with the applicable Acid Rain requirements of 40 CFR Part 78 (Appeal Procedures for Acid Rain Program). The sections and paragraphs cited in Table 37-G5 below are requirements of this permit:

Table 37-G5: Applicable Requirements of 40 CFR Part 78 for 'Rokeby #3' (EU 3-1 and 3-2)

Section (§)	Section Description	Applicable Paragraph(s)
§78.1	Purpose and Scope	(a)-(d)
§78.2	General	(a)-(c)
§78.3	Petition for Administrative Review and Request for Evidentiary Hearing	(a)-(d)
§78.4	Filings	(a)-(g)
§78.5	Limitation on Filing or Presenting New Evidence and Raising New Issues	(a)-(b)
§78.6	Action on Petition for Administrative Review	(a)-(b)
§78.8	Consolidation and Severance of Appeals Proceedings	(a)-(b)
§78.9	Notice of the Filing of Petition for Administrative Review	Entire Section

Table 37-G5: Applicable Requirements of 40 CFR Part 78 for 'Rokeby #3' (EU 3-1 and 3-2)

Section (§)	Section Description	Applicable Paragraph(s)
§78.10	*Ex parte* Communications During Pendency of a Hearing	(a)-(c)
§78.11	Intervenors	(a)-(b)
§78.12	Standard of Review	(a)-(b)
§78.13	Scheduling Orders and Pre-Hearing Conferences	(a)-(c)
§78.14	Evidentiary Hearing Procedure	(a)-(c)
§78.15	Motions in Evidentiary Hearings	(a)-(e)
§78.16	Record of Appeal Proceeding	(a)-(e)
§78.17	Proposed Findings and Conclusions and Supporting Brief	Entire Section
§78.18	Proposed Decision	(a)-(b)
§78.19	Interlocutory Appeal	(a)-(e)
§78.20	Appeal of Decision of Administrator or Proposed Decision to the Environmental Appeals Board	(a)-(f)

Note: Unless otherwise specified, all sub-paragraphs listed in the 'Applicable Paragraphs' column are incorporated as requirements.

(H) Other Requirements.

(1) The owner/operator must maintain compliance with the "Emission and Performance Testing Requirements" set forth Condition XXXI(C) of Construction Permit No. 101D, as well as the "Compliance Demonstration Requirements" set forth in Condition XXXI(D) of Construction Permit No. 101D. These requirements can be found in Attachment F of this permit.

(2) The owner/operator must not make any modifications to 'Rokeby #3' (EU 3-1 and 3-1), or any associated equipment, that could affect the nature or the quantity of air pollutants emitted without written approval from the Department. Modifications (as defined in 40 CFR Part 60 Subpart A, §60.14) to 'Rokeby #3' may be subject to the requirements of 40 CFR Part 60, Subpart GG or Subpart KKKK. Any modification of the operational and/or construction documents that were the basis of Construction Permit No. 101D, which may affect the rate of any air pollutant emission, actual emissions, and/or associated impacts predicted by atmospheric dispersion modeling, must have prior approval from the LLCHD. The source must provide all necessary information to validate the modification, including, but not limited to, additional engineering, modeling, and ambient air quality studies.

(3) Pursuant to Construction Permit No. 101D, in the event 'Rokeby #3' no longer qualifies as a gas-fired or oil-fired peaking unit, and a continuous emission monitor (CEM) for NO_X is installed and operated, annual emissions of NO_X must be obtained from the CEM data.

(4) Pursuant to Construction Permit No. 101D, in the event the owner/operator requires an increase in hours of operation or a change in the configuration of the turbine to a combined cycle unit, the owner/operator must submit a new permit application and BACT analysis, and must obtain a new permit prior to increasing the hours of operation or to commencing construction.

XXXVIII. Requirements for LES Rokeby Generating Station Fire Pump Engine – 1.90 MMBtu/hr Compression Ignition Internal Combustion Engine. As authorized by Condition XXXII of this permit, the Director has determined the following to be requirements of this permit for the LES Rokeby Station Fire Pump Engine. Unless otherwise specified, the following conditions apply to the emission units included in Table 38-A1 of this condition.

(A) Affected Emission Units.

(1) The affected emission units subject to requirements under Condition XXXVIII are listed in Table 38-A1, below:

Table 38-A1: Emission Units Subject to Specific Condition XXXVIII

Emission Unit (EU) #	Emission Unit Description
6-1	Fire Pump Engine (282 hp – 1.90 MMBtu/hr) – Diesel

(B) Emission and Throughput Limits.

(1) In accordance with the requirements set forth in Article 2, Section 20, paragraph (B) of the LLCAPCPRS, the owner operator must limit emissions from the 'Fire Pump Engine' as required in Table 38-B1 below.

Table 38-B1: Heat Input Rate PM Emission Limits for LES Rokeby Generating Station EU 6-1 (Fire Pump Engine)

EU #	Heat Input Rate	Pollutant	Pollutant Limit (lbs/MMBtu)	Pollutant Limit (lbs/hour)
6-1	1.90 MMBtu/hr	PM[1]	0.60	1.14

[1] – 'PM' includes both PM10 and PM2.5, per definition from Article 2, Section 1, Item 118 of the LLCAPCPRS.

(2) In accordance with the requirements set forth in Construction Permit No. 184, the engine must be equipped with a non-resettable hour meter.

(3) In accordance with the requirements set forth in Construction Permit No. 184, the owner/operator must limit operation of each unit for maintenance and readiness testing to no more than one hundred (100) hours per year, unless additional hours of operation for maintenance and readiness testing are recommended in the manufacturer specifications.

(4) In accordance with the requirements set forth in Construction Permit No. 184, the owner/operator must limit total hours of operation of each unit to no more than five hundred (500) hours per year, which includes operation for emergency purposes, operation for maintenance and readiness testing, and the hours of operation for any purpose other than emergency use or maintenance and readiness testing.

(5) In accordance with the requirements set forth in Construction Permit No. 184, as well as the requirements set forth in 40 CFR Part 60 Subpart IIII (NSPS for Stationary Compression Ignition Internal Combustion Engines, or 'CI ICE'), the owner/operator must operate EU 6-1 using fuel oil that meets the following requirements:

(a) The fuel oil must contain no more than fifteen parts per million (15 ppm) sulfur, by weight; and

(b) The fuel must meet one of the following:

(i) Minimum cetane index of forty (40); or

(ii) Maximum aromatic content of thirty-five percent (35%), by volume.

(C) Record Keeping Requirements.

(1) In accordance with the requirements set forth in Construction Permit No. 184, the owner/operator must maintain records in accordance with the following requirements. These records must be made available for Department review.

(a) If the manufacturer specifications for any unit state that the engine should be operated more than one hundred (100) hours per year for maintenance and readiness testing, the owner/operator must maintain a copy of the manufacturer specifications.

(b) Records of the following:

(i) Total hours of operation each calendar year.

(ii) Hours of operation for emergency purposes each calendar year.

(iii) When operated for emergency purposes, the owner/operator must record the time of operation of the engine and the reason the engine was in operation during that time.

(iv) Hours of operation for maintenance and readiness testing each calendar year.

(v) Hours of operation during each calendar year for any purpose other than emergency use or maintenance and readiness testing.

(c) Copies of fuel supplier certification adequate to demonstrate compliance with the requirements set forth in paragraph (B)(5) of this condition.

(D) Reporting Requirements.

(1) In accordance with the requirements set forth in Construction Permit No. 184, the owner/operator must report any exceedance(s) of the limits set forth in paragraphs (B)(3) and (B)(4) of this condition no later than thirty (30) days after the end of the month during which the respective limit was exceeded.

(E) Requirements of the New Source Performance Standards (NSPS) set forth in Title 40, Part 60 of the Code of Federal Regulations (40 CFR Part 60).

(1) In accordance with the requirements set forth in Construction Permit No. 184, the owner/operator must comply with all applicable requirements of 40 CFR Part 60, Subpart A (General Provisions), as they relate to 40 CFR Part 60, Subpart IIII.

(2) In accordance with the requirements set forth in Construction Permit No. 184, the owner/operator must comply with the applicable requirements of 40 CFR Part 60, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, or 'CI ICE'), as applicable to the 'Fire Pump Engine' (EU 6-1). The sections and paragraphs cited in Table 38-E2 below are requirements of this permit:

Table 38-E2: Applicable Requirements of 40 CFR Part 60, Subpart IIII for the 282 hp 'Fire Pump Engine' (EU 6-1)

Section (§)	Section Description	Applicable Paragraph(s)
§60.4200	Sources Subject to Rule	(a)(2)(ii)
§60.4205	Emission Standards for Owners/Operators of Stationary Emergency CI ICE	(c); also refer to Table 4 of Subpart IIII
§60.4206	Duration of Applicability of Emission Standards to Owners/Operators	Entire Section
§60.4207	Fuel Standards for Owners/Operators of Stationary CI ICE	(b)
§60.4209	Monitoring Requirements for Owners/Operators of Stationary CI ICE	(a)

Table 38-E2: Applicable Requirements of 40 CFR Part 60, Subpart IIII for the 282 hp 'Fire Pump Engine' (EU 6-1)

Section (§)	Section Description	Applicable Paragraph(s)
§60.4211	Compliance Requirements for Owners/Operators of Stationary CI ICE	(a); (c); (f); (g)[i]
§60.4212	Test Methods and Procedures for Owners/Operators of Stationary CI ICE with Displacement less than 30 liters/cylinder	(b)
§60.4214	Notification, Reporting, and Record Keeping Requirements for Owners/Operators of Stationary CI ICE	(b); (d)[j]
§60.4218	Applicable General Provisions of 40 CFR Part 60, Subpart A	Refer to Table 8 of Subpart IIII
§60.4219	Definitions	Entire Section

[i] – This requirement only applies if any of the statements in §60.4211 paragraph (g) are true, or become true of how the engine is installed, operated, and/or maintained.
[j] – This requirement only applies if any of the statements in §60.4214 paragraph (d) are true, or become true of how the engine is operated.
Note: Unless otherwise specified, all sub-paragraphs listed in the 'Applicable Paragraphs' column are incorporated as requirements.

(F) Requirements of the National Emission Standards for Hazardous Air Pollutants for Source Categories (Source Category NESHAPs) set forth in Title 40, Part 63 of the Code of Federal Regulations (40 CFR Part 63).

(1) In accordance with the requirements set forth in Construction Permit No. 184, the 'Fire Pump Engine' (EU 6-1) is subject to regulation under 40 CFR Part 63, Subpart ZZZZ (NESHAP for Stationary Reciprocating Internal Combustion Engines, or 'RICE'). Pursuant to §63.6590 paragraph (c), units subject to regulation under 40 CFR Part 60 must demonstrate compliance with Subpart ZZZZ by demonstrating compliance with the applicable subpart under 40 CFR Part 60. The owner/operator must demonstrate compliance with 40 CFR Part 63 by complying with the requirements set forth in paragraph (E)(2) of this condition.

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

(A) *Description of Transport Rule (TR) Monitoring Provisions.*

The TR subject unit(s), and the unit-specific monitoring provisions at this source (ORIS ID: 6373), are identified in Table 39-A1 and Table 39-A2 below. The unit(s) included in this table are subject to the applicable requirements set forth in the following subparts of 40 CFR Part 97:

- 40 CFR Part 97, Subpart AAAAA – TR NO_X Annual Trading Program
- 40 CFR Part 97, Subpart DDDDD – TR SO_2 Group 2 Trading Program

Table 39-A1: CSAPR Monitoring Provisions for LES Rokeby Generating Station

Unit ID:	**'Rokeby #1' – 660.0 MMBtu/hr Combustion Turbine (EU 1-1 / 1-2)**				
Parameter	CEMS requirements pursuant to 40 CFR Part 75, Subpart B (for SO_2 monitoring) and 40 CFR Part 75, Subpart H (for NO_X monitoring)	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR Part 75, Appendix E	Low Mass Emissions (LME) excepted monitoring requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Subpart B §75.19	EPA-approved alternative monitoring system requirements pursuant to 40 CFR Part 75, Subpart E
SO_2			----------	✓	
NO_X		----------		✓	
Heat Input			----------	✓	

Table 39-A2: CSAPR Monitoring Provisions for LES Rokeby Generating Station

Unit ID:	**'Rokeby #2' – 882.0 MMBtu/hr Combustion Turbine (EU 2-1 / 2-2)** **'Rokeby #3' – 1037.0 MMBtu/hr Combustion Turbine (EU 3-1 / 3-2)**				
Parameter	CEMS requirements pursuant to 40 CFR Part 75, Subpart B (for SO_2 monitoring) and 40 CFR Part 75, Subpart H (for NO_X monitoring)	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR Part 75, Appendix E	Low Mass Emissions (LME) excepted monitoring requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Subpart B §75.19	EPA-approved alternative monitoring system requirements pursuant to 40 CFR Part 75, Subpart E
SO_2		✓	----------		
NO_X		----------	✓		
Heat Input		✓	----------		

(1) The monitoring descriptions (see Table 39-A1 and Table 39-A2) to be used by a unit does not change, create an exemption from, or otherwise affect the monitoring, record keeping, and reporting requirements applicable to the unit under the following:

- 40 CFR Part 97, Subpart AAAAA §97.430 through §97.435 (TR NO_X Annual Trading Program); and/or
- 40 CFR Part 97, Subpart DDDDD §97.730 through §97.735 (TR SO_2

Group 2 Trading Program)

The monitoring, record keeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable CSAPR trading programs.

(2) The owner/operator must submit a monitoring plan for each unit in Table 39-A1 and Table 39-A2 to the Administrator in accordance with the following, as applicable: 40 CFR Part 75, Subpart F §75.53; 40 CFR Part 75, Subpart G §75.62; 40 CFR Part 75, Subpart H §75.73. The monitoring plan for each unit is available at the EPA's website at: http://www.epa.gov/airmarkets/emissions/monitoringplans.html

(3) Owners/operators that want to use an alternative monitoring system must submit a petition to the Administrator requesting approval of the alternative monitoring system in accordance with the following, as applicable:

- 40 CFR Part 75, Subpart E;
- 40 CFR Part 75, Subpart G §75.66;
- 40 CFR Part 97, Subpart AAAAA §97.435 (TR NO_X Annual Trading Program); and/or
- 40 CFR Part 97, Subpart DDDDD §97.735 (TR SO_2 Group 2 Trading Program)

The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at: http://www.epa.gov/airmarkets/emissions/petitions.html

(4) Owners and operators that want to use an alternative to any monitoring, record keeping, or reporting requirement under 40 CFR Part 97, Subpart AAAAA §97.430 through §97.435 (TR NO_X Annual Trading Program) and/or 40 CFR Part 97, Subpart DDDDD §97.730 through §97.735 (TR SO_2 Group 2 Trading Program) must submit a petition to the Administrator requesting approval of the alternative(s) in accordance with 40 CFR Part 75, Subpart G §75.66 and the following, as applicable:

- 40 CFR Part 97, Subpart AAAAA §97.435 (TR NO_X Annual Trading Program); and/or
- 40 CFR Part 97, Subpart DDDDD §97.735 (TR SO_2 Group 2 Trading Program)

The Administrator's response approving or disapproving any petition for an alternative to a monitoring, record keeping, or reporting requirement is available on the EPA's website at:
http://www.epa.gov/airmarkets/emissions/petitions.html

(5) The descriptions of monitoring applicable to the unit(s) included Table 39-A1 and Table 39-A2 meet the requirement(s) of 40 CFR Part 97, Subpart AAAAA §97.430 through §97.435 (TR NO_X Annual Trading Program) and/or 40 CFR Part 97, Subpart DDDDD §97.730 through §97.735 (TR SO_2 Group 2 Trading Program), and therefore minor permit modification procedures may be used to add or change a unit(s) monitoring system description, in accordance with the following, as applicable:

- 40 CFR Part 70 §70.7 paragraph (e)(2)(i)(B)
- 40 CFR Part 71 §71.7 paragraph (e)(1)(i)(B)

(B) *Applicable Requirements of 40 CFR Part 97, Subpart §97.406 – Transport Rule (TR) NO_X Annual Trading Program.*

(1) *Designated Representative Requirements.*

The owner/operator must comply with the requirement to have a designated

representative, and may have an alternate designated representative in accordance with 40 CFR Part 97, Subpart AAAAA §97.413 through §97.418.

(2) *Emissions Monitoring, Reporting, and Record Keeping Requirements.*

(a) The owner/operator, and the designated representative, of each TR NO_X Annual source and each TR NO_X Annual unit at the source must comply with the monitoring, reporting, and record keeping requirements as follows:

(i) 40 CFR Part 97, Subpart AAAAA §97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage);

(ii) 40 CFR Part 97, Subpart AAAAA §97.431 (initial monitoring system certification and recertification procedures);

(iii) 40 CFR Part 97, Subpart AAAAA §97.432 (monitoring system out-of-control periods);

(iv) 40 CFR Part 97, Subpart AAAAA §97.433 (notifications concerning monitoring);

(v) 40 CFR Part 97, Subpart AAAAA §97.434 (record keeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification);

(vi) 40 CFR Part 97, Subpart AAAAA §97.435 (petitions for alternatives to monitoring, record keeping, or reporting requirements)

(b) The emissions data determined in accordance with 40 CFR Part 97, Subpart AAAAA §97.430 through §97.435 must be used to calculate allocations of TR NO_X Annual emissions limitation and assurance provisions under paragraph (c) below, provided that for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance must be the mass emissions amount for the monitoring location determined in accordance with 40 CFR Part 97, Subpart AAAAA §97.430 through §97.435 and rounded to the nearest ton, with any fraction of less than 0.50 being deemed to be zero.

(c) *NO_X Emissions Requirements.*

(i) TR NO_X Annual Emissions Limitation.

1. As of the allowance transfer deadline for a control period in a given year, the owner/operator of each TR NO_X Annual source and each TR NO_X Annual unit at the source must hold, in the source's compliance account, TR NO_X Annual allowances available for deduction for such control period under 40 CFR Part 97, Subpart AAAAA §97.424 paragraph (a) in an amount not less than the tons of total NO_X emissions for such control period from all TR NO_X Annual units at the source.
2. If the total NO_X emissions during a control period in a given year from the TR NO_X Annual units at a TR NO_X Annual source are in excess of the TR NO_X Annual emissions limitation set forth in paragraph XXXIX(B)(2)(c)(i)1 above, then:
   a. The owner/operator of the source and each TR NO_X Annual unit at the source must hold the TR NO_X Annual allowances required for deduction under 40 CFR Part 97, Subpart AAAAA §97.424 paragraph (d); and
   b. The owner/operator of the source and each TR NO_X Annual unit at the source must pay any fine, penalty, or assessment, or

comply with any remedy imposed for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period constitutes a separate violation of 40 CFR Part 97, Subpart AAAAA and the Clean Air Act.

(ii) TR NO_X Annual Assurance Provisions.

1. If total NO_X emissions during a control period in a given year from all TR NO_X Annual units at TR NO_X Annual sources in the state, and Indian country within the borders of such state, exceed the state assurance level, then the owner/operator of such source(s) and unit(s) in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_X emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, must hold (in the assurance account established for the owners and operators of such group) TR NO_X Annual allowances available for deduction for such control period under 40 CFR Part 97, Subpart AAAAA §97.425 paragraph (a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR Part 97, Subpart AAAAA §97.425 paragraph (b), of multiplying:
   a. The quotient of the amount by which the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representative for such sources and units in the state and Indian country within the borders of such state for such control period, by which each common designated representative's share of NO_X emissions exceeds the respective common designated representative's assurance level; and
   b. The amount by which total NO_X emissions from all TR NO_X Annual units at TR NO_X Annual sources in the state and Indian country within the borders of such state for such control period exceed the state assurance level.
2. The owner/operator must hold the TR NO_X Annual allowances required under paragraph XXXIX(B)(2)(c)(ii)1 above, as of midnight on November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
3. Total NO_X emissions from all TR NO_X Annual units at TR NO_X Annual sources in the state and Indian country within the borders of such state during a control period in a given year exceed the state assurance level if such total NO_X emissions exceed the sum, for such control period, of the state NO_X Annual trading budget under 40 CFR Part 97, Subpart AAAAA §97.410 paragraph (a) and the state's variability limit under 40 CFR Part 97, Subpart AAAAA §97.410 paragraph (b).
4. It shall not be a violation of 40 CFR Part 97, Subpart AAAAA or of the Clean Air Act if total NO_X emissions from all TR NO_X Annual units at TR NO_X Annual sources in the state and Indian country within the borders

of such State, during a control period, exceed the state assurance level or if a common designated representative's share of total NO_X emissions from the TR NO_X Annual units at TR NO_X Annual sources in the state and Indian country within the borders of such state, during a control period, exceeds the common designated representative's assurance level.

5. To the extent the owner/operator fails to hold TR NO_X Annual allowances for a control period in a given year in accordance with paragraphs XXXIX(B)(2)(c)(ii)1-3 above:
   a. The owner/operator must pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
   b. Each TR NO_X Annual allowance that the owner/operator fails to hold for such control period in accordance with paragraphs XXXIX(B)(2)(c)(ii)1-3 above and each day of such control period constitutes a separate violation of 40 CFR Part 97, Subpart AAAAA and the Clean Air Act.

(iii) Compliance Periods.

1. A TR NO_X Annual unit shall be subject to the requirements under paragraph XXXIX(B)(2)(c)(i) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR Part 97, Subpart AAAAA §97.430 paragraph (b) and for each control period thereafter.
2. A TR NO_X Annual unit shall be subject to the requirements under paragraph XXXIX(B)(2)(c)(ii) above for the control period starting on the later of January 1, 2017, or the deadline for meeting the unit's monitor certification requirements under 40 CFR Part 97, Subpart AAAAA §97.430 paragraph (b) and for each control period thereafter.

(iv) Vintage of Allowances Held for Compliance.

1. A TR NO_X Annual allowance held for compliance with the requirements under paragraph XXXIX(B)(2)(c)(i)1 above for a control period in a given year must be a TR NO_X Annual allowance that was allocated for such control period or a control period in a prior year.
2. A TR NO_X Annual allowance held for compliance with the requirements under paragraph XXXIX(B)(2)(c)(i)2.a and paragraphs XXXIX(B)(2)(c)(ii)1-(ii)3. above for a control period in a given year must be a TR NO_X Annual allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(v) *Allowance Management System Requirements.*

Each TR NO_X Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart AAAAA.

(vi) *Limited Authorization.*

A TR NO_X Annual allowance is a limited authorization to emit one ton of NO_X

during the control period in one year. Such authorization is limited in its use and duration as follows:

1. Such authorization shall only be used in accordance with the TR NO_X Annual Trading Program; and
2. Notwithstanding any other provision of 40 CFR Part 97, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(vii) *Property Right.*

A TR NO_X Annual allowance does not constitute a property right.

(d) *Title V Permit Revision Requirements.*

(i) No Title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_X Annual allowances in accordance with 40 CFR Part 97, Subpart AAAAA.

(ii) This permit incorporates the TR emissions monitoring, record keeping, and reporting requirements pursuant to 40 CFR Part 97, Subpart AAAAA §97.430 through §97.435, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, Subparts B and H), an excepted monitoring system (pursuant to 40 CFR Part 75, Appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR Part 75, Subpart B §75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, Subpart E). Therefore, the '*Description of TR Monitoring Provisions*' table for each unit identified in this permit may be added to, or changed, in this Title V permit using minor permit modification procedures in accordance with 40 CFR Part 97, Subpart AAAAA §97.406 paragraph (d)(2), and the following, as applicable:

1. 40 CFR Part 70 §70.7 paragraph (e)(2)(i)(B)
2. 40 CFR Part 71 §71.7 paragraph (e)(1)(i)(B)

(e) *Additional Record Keeping and Reporting Requirements.*

(i) Unless otherwise provided, the owner/operator of each TR NO_X Annual source and each TR NO_X Annual unit at the source must keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

1. The certificate of representation under 40 CFR Part 97, Subpart AAAAA §97.416 for the designated representative for the source and each TR NO_X Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR Part 97, Subpart AAAAA §97.416 changing the designated representative.
2. All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart AAAAA.

3. Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NO_X Annual Trading Program.

(ii) The designated representative of a TR NO_X Annual source and each TR NO_X Annual unit at the source must make all submissions required under the TR NO_X Annual Trading Program, except as provided in 40 CFR Part 97, Subpart AAAAA §97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a Title V operating permit program in 40 CFR Parts 70 and 71.

(f) *Liability.*

(i) Any provision of the TR NO_X Annual Trading Program that applies to a TR NO_X Annual source or the designated representative of a TR NO_X Annual source shall also apply to the owners and operators of such source and of the TR NO_X Annual units at the source.

(ii) Any provision of the TR NO_X Annual Trading Program that applies to a TR NO_X Annual unit or the designated representative of a TR NO_X Annual unit shall also apply to the owners and operators of such unit.

(g) *Effect on Other Authorities.*

Any provision of the TR NO_X Annual Trading Program that applies to a TR NO_X Annual unit or the designated representative of a TR NO_X Annual unit shall also apply to the owners and operators of such unit.

(h) *Effect on Units in Indian Country.*

Notwithstanding the provisions of paragraphs (B)(1) through (B)(2)(g) above, paragraphs (B)(1) through (B)(2)(g) shall be deemed not to impose any requirements on any source or unit, or any owner, operator, or designated representative with regard to any source or unit, in Indian country within the borders of the state.

(3) *Applicable Requirements of 40 CFR Part 97, Subpart §97.706 – Transport Rule (TR) SO_2 Group 2 Trading Program.*

(a) *Designated Representative Requirements.*

The owner/operator must comply with the requirement to have a designated representative, and may have an alternate designated representative in accordance with 40 CFR Part 97, Subpart DDDDD §97.713 through §97.718.

(b) *Emissions Monitoring, Reporting, and Record Keeping Requirements.*

(i) The owner/operator, and the designated representative, of each TR SO_2 Group 2 source and each TR SO_2 Group 2 unit at the source must comply with the monitoring, reporting, and record keeping requirements as follows:

1. 40 CFR Part 97, Subpart DDDDD §97.730 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage);
2. 40 CFR Part 97, Subpart DDDDD §97.731 (initial monitoring system certification and recertification procedures);
3. 40 CFR Part 97, Subpart DDDDD §97.732 (monitoring system out-of-control periods);
4. 40 CFR Part 97, Subpart DDDDD §97.733 (notifications concerning monitoring);

5. 40 CFR Part 97, Subpart DDDDD §97.734 (record keeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification);
6. 40 CFR Part 97, Subpart DDDDD §97.735 (petitions for alternatives to monitoring, record keeping, or reporting requirements)

(ii) The emissions data determined in accordance with 40 CFR Part 97, Subpart DDDDD §97.730 through §97.735 must be used to calculate allocations of TR SO_2 Group 2 emissions limitation and assurance provisions under paragraph (c) below, provided that for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance must be the mass emissions amount for the monitoring location determined in accordance with 40 CFR Part 97, Subpart DDDDD §97.730 through §97.735 and rounded to the nearest ton, with any fraction of less than 0.50 being deemed to be zero.

(c) *SO_2 Emissions Requirements.*

(i) TR SO_2 Group 2 Emissions Limitation.

1. As of the allowance transfer deadline for a control period in a given year, the owner/operator of each TR SO_2 Group 2 source and each TR SO_2 Group 2 unit at the source must hold, in the source's compliance account, TR SO_2 Group 2 allowances available for deduction for such control period under 40 CFR Part 97, Subpart DDDDD §97.724 paragraph (a) in an amount not less than the tons of total SO_2 emissions for such control period from all TR SO_2 Group 2 units at the source.
2. If the total SO_2 emissions during a control period in a given year from the TR SO_2 Group 2 units at a TR SO_2 Group 2 source are in excess of the TR SO_2 Group 2 emissions limitation set forth in paragraph (B)(3)(c)(i)1. above, then:
   a. The owner/operator of the source and each TR SO_2 Group 2 unit at the source must hold the TR SO_2 Group 2 allowances required for deduction under 40 CFR Part 97, Subpart DDDDD §97.724 paragraph (d); and
   b. The owner/operator of the source and each TR SO_2 Group 2 unit at the source must pay any fine, penalty, or assessment, or comply with any remedy imposed for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period constitutes a separate violation of 40 CFR Part 97, Subpart DDDDD and the Clean Air Act.

(ii) TR SO_2 Group 2 Assurance Provisions.

1. If total SO_2 emissions during a control period in a given year from all TR SO_2 Group 2 units at TR SO_2 Group 2 sources in the state, and Indian country within the borders of such state, exceed the state assurance level, then the owner/operator of such source(s) and unit(s) in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO_2 emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, must hold (in the assurance account

established for the owners and operators of such group) TR SO_2 Group 2 allowances available for deduction for such control period under 40 CFR Part 97, Subpart DDDDD §97.725 paragraph (a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR Part 97, Subpart DDDDD §97.725 paragraph (b), of multiplying:

a. The quotient of the amount by which the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representative for such sources and units in the state and Indian country within the borders of such state for such control period, by which each common designated representative's share of SO_2 emissions exceeds the respective common designated representative's assurance level; and

b. The amount by which total SO_2 emissions from all TR SO_2 Group 2 units at TR SO_2 Group 2 sources in the state and Indian country within the borders of such state for such control period exceed the state assurance level.

2. The owner/operator must hold the TR SO_2 Group 2 allowances required under paragraph (B)(3)(c)(ii)1. above, as of midnight on November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

3. Total SO_2 emissions from all TR SO_2 Group 2 units at TR SO_2 Group 2 sources in the state and Indian country within the borders of such state during a control period in a given year exceed the state assurance level if such total SO_2 emissions exceed the sum, for such control period, of the state SO_2 Group 2 trading budget under 40 CFR Part 97, Subpart DDDDD §97.710 paragraph (a) and the state's variability limit under 40 CFR Part 97, Subpart DDDDD §97.710 paragraph (b).

4. It shall not be a violation of 40 CFR Part 97, Subpart DDDDD or of the Clean Air Act if total SO_2 emissions from all TR SO_2 Group 2 units at TR SO_2 Group 2 sources in the state and Indian country within the borders of such State, during a control period, exceed the state assurance level or if a common designated representative's share of total SO_2 emissions from the TR SO_2 Group 2 units at TR SO_2 Group 2 sources in the state and Indian country within the borders of such state, during a control period, exceeds the common designated representative's assurance level.

5. To the extent the owner/operator fails to hold TR SO_2 Group 2 allowances for a control period in a given year in accordance with paragraphs (B)(3)(c)(ii)1.-3. above:

a. The owner/operator must pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

b. Each TR SO_2 Group 2 allowance that the owner/operator fails to hold for such control period in accordance with paragraphs

(B)(3)(c)(ii)1.-3. above and each day of such control period constitutes a separate violation of 40 CFR Part 97, Subpart DDDDD and the Clean Air Act.

(iii) *Compliance Periods.*

1. A TR SO_2 Group 2 unit shall be subject to the requirements under paragraph (B)(3)(c)(i) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR Part 97, Subpart DDDDD §97.730 paragraph (b) and for each control period thereafter.
2. A TR SO_2 Group 2 unit shall be subject to the requirements under paragraph (B)(3)(c)(ii) above for the control period starting on the later of January 1, 2017, or the deadline for meeting the unit's monitor certification requirements under 40 CFR Part 97, Subpart DDDDD §97.730 paragraph (b) and for each control period thereafter.

(iv) *Vintage of Allowances Held for Compliance.*

1. A TR SO_2 Group 2 allowance held for compliance with the requirements under paragraph (B)(3)(c)(i)1. above for a control period in a given year must be a TR SO_2 Group 2 allowance that was allocated for such control period or a control period in a prior year.
2. A TR SO_2 Group 2 allowance held for compliance with the requirements under paragraph (B)(3)(c)(i)2.a. and paragraphs (B)(3)(c)(ii)1.-(ii)3. above for a control period in a given year must be a TR SO_2 Group 2 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(v) *Allowance Management System Requirements.*

Each TR SO_2 Group 2 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart DDDDD.

(vi) *Limited Authorization.*

A TR SO_2 Group 2 allowance is a limited authorization to emit one ton of SO_2 during the control period in one year. Such authorization is limited in its use and duration as follows:

1. Such authorization must only be used in accordance with the TR SO_2 Group 2 Trading Program; and
2. Notwithstanding any other provision of 40 CFR Part 97, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(vii) *Property Right.*

A TR SO_2 Group 2 allowance does not constitute a property right.

(d) *Title V Permit Revision Requirements.*

(i) No Title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR SO_2 Group 2 allowances in accordance with 40 CFR Part 97, Subpart DDDDD.

(ii) This permit incorporates the TR emissions monitoring, record keeping, and reporting requirements pursuant to 40 CFR Part 97, Subpart DDDDD §97.730

through §97.735, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, Subparts B and H), an excepted monitoring system (pursuant to 40 CFR Part 75, Appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR Part 75, Subpart B §75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, Subpart E). Therefore, the '*Description of TR Monitoring Provisions*' table for each unit identified in this permit may be added to, or changed, in this Title V permit using minor permit modification procedures in accordance with 40 CFR Part 97, Subpart DDDDD §97.706 paragraph (d)(2), and the following, as applicable:

1. 40 CFR Part 70 §70.7 paragraph (e)(2)(i)(B)
2. 40 CFR Part 71 §71.7 paragraph (e)(1)(i)(B)

(e) *Additional Record Keeping and Reporting Requirements.*

(i) Unless otherwise provided, the owner/operator of each TR SO_2 Group 2 source and each TR SO_2 Group 2 unit at the source must keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

1. The certificate of representation under 40 CFR Part 97, Subpart DDDDD §97.716 for the designated representative for the source and each TR SO_2 Group 2 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR Part 97, Subpart DDDDD §97.716 changing the designated representative.
2. All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart DDDDD.
3. Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR SO_2 Group 2 Trading Program.

(ii) The designated representative of a TR SO_2 Group 2 source and each TR SO_2 Group 2 unit at the source must make all submissions required under the TR SO_2 Group 2 Trading Program, except as provided in 40 CFR Part 97, Subpart DDDDD §97.718. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a Title V operating permit program in 40 CFR Parts 70 and 71.

(f) *Liability.*

(i) Any provision of the TR SO_2 Group 2 Trading Program that applies to a TR SO_2 Group 2 source or the designated representative of a TR SO_2 Group 2 source shall also apply to the owners and operators of such source and of the TR SO_2 Group 2 units at the source.

(ii) Any provision of the TR SO_2 Group 2 Trading Program that applies to a TR SO_2 Group 2 unit or the designated representative of a TR SO_2 Group 2 unit shall also apply to the owners and operators of such unit.

(g) *Effect on Other Authorities.*

Any provision of the TR SO_2 Group 2 Trading Program that applies to a TR SO_2 Group 2 unit or the designated representative of a TR SO_2 Group 2 unit shall also apply to the owners and operators of such unit.

(h) *Effect on Units in Indian Country.*

Notwithstanding the provisions of paragraphs (B)(3)(a)-(g) above, paragraphs (B)(3)(a)-(g) shall be deemed not to impose any requirements on any source or unit, or any owner, operator, or designated representative with regard to any source or unit, in Indian country within the borders of the state.

END OF PERMIT CONDITIONS

Attachment A

Permit Shield

Regulations for which a Permit Shield is provided are as follows:

Regulation Citation	Emission Unit/ Equipment	Reason for Non-Applicability
40 CFR Part 60, Subpart K	Diesel Storage Tank	№ 2 fuel oil is not considered a 'petroleum liquid' pursuant to the definition set forth in §60.111 paragraph (b) of Subpart K.
40 CFR Part 60, Subpart Ka	Diesel Storage Tank	№ 2 fuel oil is not considered a 'petroleum liquid' pursuant to the definition set forth in §60.111a paragraph (b) of Subpart Ka.
40 CFR Part 60, Subpart Kb	Diesel Storage Tank	The vapor pressure of № 2 fuel oil is lower than the applicability thresholds set forth in §60.110b paragraph (b) of Subpart Kb.
40 CFR Part 61, Subpart M	Facility-Wide	No asbestos-containing materials associated with this facility.
40 CFR Part 63, Subpart YYYY	All Combustion Turbines	Applies only to combustion turbines located at 'major sources' of hazardous air pollutants (HAPs). LES Rokeby Station is an 'area sources' of HAPs.

Attachment B

Compliance Assurance Monitoring (CAM) Plan for LES Rokeby Generating Station

CAM Plan for Lincoln Electric System Rokeby Generating Station – Unit #1

I. Emissions Unit / Emission Segment / Control Device

Emission Unit ID	Emission Unit Description	Emission Segment	Emission Segment Description	Control Device Description	Pollutant Controlled
1	660.0 MMBtu/hr Combustion Turbine	1	Fuel Oil Firing	Water Injection	NO_X
		2	Natural Gas Firing	Water Injection	NO_X

II. Applicable Emission Standard

Emission Unit ID	Emission Segment	Pollutant	Emission Limit	Regulatory Basis
1	1	NO_X	92.22 ppm	40 CFR Part 60, Subpart GG §60.332 (a)(1)
	2	NO_X	93.49 ppm	

III. Control Device Monitoring Parameters

Parameter Monitored	Monitoring Device	Data Collection Frequency	Averaging Period	Recordkeeping	QA / QC
Fuel Flow Rate	Fuel Oil & Natural Gas Fuel Flowmeters	Continuous	Hourly	Hourly Averages Maintained on Data Acquisition System	40 CFR Part 75 Fuel Flowmeter QA/QC: Accuracy testing at least once every four fuel flowmeter QA operating quarters.[3] No more than 20 successive calendar quarters shall elapse between accuracy tests. Fuel flowmeter shall meet a flow meter accuracy of 2 percent of the upper range.
Water Flow Rate	Water Flowmeter	Continuous		Water flow rate is used with fuel flow rate to calculate "Water to Fuel Injection Ratio" in the turbine control system. This calculated value is sent to the Data Acquisition System.	Accuracy testing at least once every four water flowmeter QA operating quarters.[4] No more than 20 successive calendar quarters shall elapse between accuracy tests. Water flowmeter shall meet a flow meter accuracy of 2 percent of the upper range.
Water to Fuel Injection Ratio	Data Acquisition System	Continuous	Hourly	Hourly Averages Maintained on Data Acquisition System	N/A

[3] – 'Fuel Flowmeter QA operating quarters' as defined in 40 CFR Part 72 §72.2 means "a unit operating quarter in which the unit combusts the fuel measured by the fuel flowmeter for at least 168 operating hours or more".

[4] – 'Water Flowmeter QA operating quarters' means "a quarter in which the unit injects water as measured by the water flowmeter for at least 168 water injection operating hours or more".

IV. Water-to-Fuel Ratio Indicator Ranges

Fuel Flow (hundred standard cubic feet/hour)	Fuel Oil Operation – Water-to-Fuel Injection Ratio	Basis for Water-to-Fuel Injection Ratio
0 to 2040	No water injection	NSPS Subpart GG Performance Testing Conducted in February 1997 and June 2000
≥ 2040 – 4404	0.25	
≥ 4404	0.40	

Fuel Flow (hundred standard cubic feet/hour)	Natural Gas Operation – Water-to-Fuel Injection Ratio	Basis for Water-to-Fuel Injection Ratio
0 to 6700	No water injection	NSPS Subpart GG Performance Testing Conducted in February 1997 and June 2000
≥ 6700	0.25	
Peak Load	0.75	NSPS Subpart GG Performance Testing Conducted in November 1996

CAM Justification and Implementation

A. Background

The water injection system for the Unit #1 combustion turbine at LES Rokeby Station was determined to be subject to Compliance Assurance Monitoring (CAM), as it meets the three CAM applicability criteria listed in 40 CFR Part 64. The parameters and associated indicator ranges presented above assure that the water injection system is operated such that it minimizes the formation of NO_X emissions to less than the NO_X emission standard contained in the New Source Performance Standard (NSPS) for Stationary Gas Turbines, 40 CFR Part 60, Subpart GG.

B. Rationale for Selection of Performance Indicator and Range

40 CFR Part 60, Subpart GG includes a NO_X emission standard for combustion turbines. Further, Subpart GG requires that owners/operators of combustion turbines that use water injection to minimize NO_X emissions operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine. Further, Subpart GG requires an initial performance test to determine the ratio of water to fuel required to comply with the NO_X standard at four loads in the normal operating range, including minimum and maximum load. LES conducted the required performance testing in November 1996, February 1997, April 2000, and June 2000; as specified in 40 CFR Part 64 §64.4 paragraph (c)(1). LES exceeded the minimum number of four load test points, with nine test points on fuel oil and eight test points on natural gas fuel. The operating loads and the associated water-to-fuel ratios for which compliance with the NO_X emission standard was demonstrated are presented above. No changes to the combustion turbine or the water injection system have occurred since initial performance testing that would affect the indicator ranges presented herein. Consequently, maintaining the water-to-fuel ratio at or above the specified ranges as established during performance testing would assure that the turbine is operating in a manner that will achieve the Subpart GG emission standard for NO_X.

C. Monitoring Implementation Plan

LES is currently complying with Subpart GG. Consequently, the monitoring submitted in this CAM plan does not require the installation of additional monitoring devices or/and additional testing. However, clarification on the QA/QC procedures related to the metering equipment is required. Requirements for fuel flow meter calibrations are included in 40 CFR Part 75 Appendix D, Section 2.1.6. While these requirements are not currently applicable to the Unit #1 combustion turbine, LES is proposing to use the QA/QC requirements for the fuel flow meters included in 40 CFR Part 75 Appendix D, Section 2.1.6 for both the fuel flow and water flow

meters associated with the water injection system. LES proposes to conduct an initial accuracy check of the existing water and fuel flow meters within 180 days following approval of the Title V permit that includes the CAM requirements. Subsequent accuracy tests will occur as specified.

CAM Plan for Lincoln Electric System Rokeby Generating Station – Unit #2

I. Emissions Unit / Emission Segment / Control Device

Emission Unit ID	Emission Unit Description	Emission Segment	Emission Segment Description	Control Device Description	Pollutant Controlled
2	882.0 MMBtu/hr Combustion Turbine	1	Fuel Oil Firing	Water Injection	NO_X
		2	Natural Gas Firing	Dry Low-NO_X Burner	NO_X

II. Applicable Emission Standard

Emission Unit ID	Emission Segment	Pollutant	Emission Limit	Regulatory Basis
2	1	NO_X	89.04 ppm	40 CFR Part 60, Subpart GG §60.332 (a)(1)
	2	NO_X	93.41 ppm	

III. Control Device Monitoring Parameters

Parameter Monitored	Monitoring Device	Data Collection Frequency	Averaging Period	Recordkeeping	QA / QC
Fuel Flow Rate	Fuel Oil & Natural Gas Fuel Flowmeters	Continuous	Hourly	Hourly Averages Maintained on Data Acquisition System	40 CFR Part 75 Fuel Flowmeter QA/QC: Accuracy testing at least once every four fuel flowmeter QA operating quarters.[5] No more than 20 successive calendar quarters shall elapse between accuracy tests. Fuel flowmeter shall meet a flow meter accuracy of 2 percent of the upper range.
Water Flow Rate	Water Flowmeter	Continuous		Water flow rate is used with fuel flow rate to calculate "Water to Fuel Injection Ratio" in the turbine control system. This calculated value is sent to the Data Acquisition System.	Accuracy testing at least once every four water flowmeter QA operating quarters.[6] No more than 20 successive calendar quarters shall elapse between accuracy tests. Water flowmeter shall meet a flow meter accuracy of 2 percent of the upper range.

[5] – 'Fuel Flowmeter QA operating quarters' as defined in 40 CFR Part 72 §72.2 means "a unit operating quarter in which the unit combusts the fuel measured by the fuel flowmeter for at least 168 operating hours or more".

[6] – 'Water Flowmeter QA operating quarters' means "a quarter in which the unit injects water as measured by the water flowmeter for at least 168 water injection operating hours or more".

Parameter Monitored	Monitoring Device	Data Collection Frequency	Averaging Period	Recordkeeping	QA / QC
Water to Fuel Injection Ratio	Data Acquisition System	Continuous	Hourly	Hourly Averages Maintained on Data Acquisition System	N/A

IV. Water-to-Fuel Ratio Indicator Ranges

Fuel Flow (gal/hour)	Fuel Oil Operation – Water-to-Fuel Injection Ratio	Basis for Water-to-Fuel Injection Ratio
3177	0.90 typical water to fuel injection ratio at this fuel flow rate. *	40 CFR Part 75, Appendix E Testing & Subpart GG Performance Testing Conducted in June 2004
4311	0.80 typical water to fuel injection ratio at this fuel flow rate. *	
5702	1.50 typical water to fuel injection ratio at this fuel flow rate. *	
6973	1.40 typical water to fuel injection ratio at this fuel flow rate. *	

* – The NO_X emissions measured at the 4 tested operating points were less than 50% of the 40 CFR Part 60, Subpart GG §60.332 (a)(1) NO_X limit. The water to fuel injection ratios shown in the table above are "typical" values that can vary depending on ambient conditions and turbine operating criteria. The combustion turbine manufacturer's design water to fuel injection ratio can vary from 0.15 to 2.2 over the operating range of the turbine. Although the ratios can vary somewhat from the tested values, the NO_X emissions at ISO conditions will remain below the NO_X limit established by 40 CFR Part 60, Subpart GG §60.332 (a)(1).

Fuel Flow (gal/hour)	Natural Gas Operation – Water-to-Fuel Injection Ratio	Basis for Water-to-Fuel Injection Ratio
All fuel flows.	No water injection. (Dry low-NO_X burner)	40 CFR Part 75, Appendix E Testing & Subpart GG Performance Testing Conducted in March 2004

CAM Justification and Implementation

A. Background

The water injection system for the Unit #2 combustion turbine at LES Rokeby Station was determined to be subject to Compliance Assurance Monitoring (CAM), as it meets the three CAM applicability criteria listed in 40 CFR Part 64. The parameters and associated indicator ranges presented above assure that the water injection system is operated such that it minimizes the formation of NO_X emissions to less than the NO_X emission standard contained in the New Source Performance Standard (NSPS) for Stationary Gas Turbines, 40 CFR Part 60, Subpart GG.

B. Rationale for Selection of Performance Indicator and Range

40 CFR Part 60, Subpart GG includes a NO_X emission standard for combustion turbines. Further, Subpart GG requires that owners/operators of combustion turbines that use water injection to minimize NO_X emissions operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine. Further, Subpart GG requires an initial performance test to determine the ratio of water to fuel required to comply with the NO_X standard at four loads in the normal operating range, including minimum and maximum load. Testing to establish the relationship between water injection and NO_X emissions is also conducted every 5 years as part of complying with 40 CFR Part 75, Appendix E. LES conducted the most recent performance testing in March 2004 and June 2004; as specified in 40 CFR Part 75, Appendix E. LES tested at four load points on fuel oil and natural gas fuel. The operating loads and the associated water-to-fuel ratios for which compliance with the NO_X emission standard was demonstrated are presented above. No changes to the combustion turbine or the water injection system have occurred since initial performance testing that would affect the indicator ranges presented herein. Consequently, maintaining the water-to-fuel ratio at or above the specified ranges as established during performance testing would assure that the turbine is operating in a manner that will achieve the NSPS Subpart GG NO_X emission standard.

C. Monitoring Implementation Plan

LES is currently complying with Subpart GG. Consequently, the monitoring submitted in this CAM plan does not require the installation of additional monitoring devices or/and additional testing. However, clarification on the QA/QC procedures related to the metering equipment is required. For the Unit #2 combustion turbine, LES is currently complying with the requirement for fuel flow meter calibrations in 40 CFR Part 75 Appendix D, Section 2.1.6. LES is proposing to use the QA/QC requirements for the fuel flow meters included in 40 CFR Part 75 Appendix D, Section 2.1.6 for both the fuel flow and water flow meters associated with the water injection system. LES proposes to conduct an initial accuracy check of the existing water and fuel flow meters within 180 days following approval of the Title V permit that includes the CAM requirements. Subsequent accuracy tests will occur as specified.

CAM Plan for Lincoln Electric System Rokeby Generating Station – Unit #3

I. Emissions Unit / Emission Segment / Control Device

Emission Unit ID	Emission Unit Description	Emission Segment	Emission Segment Description	Control Device Description	Pollutant Controlled
3	1037.0 MMBtu/hr Combustion Turbine	1	Fuel Oil Firing	Water Injection	NO_X
		2	Natural Gas Firing	Dry Low-NO_X Burner	NO_X

II. Applicable Emission Standard

Emission Unit ID	Emission Segment	Pollutant	Emission Limit	Regulatory Basis
3	1	NO_X	95.11 ppm	40 CFR Part 60, Subpart GG §60.332 (a)(1)
	2	NO_X	102.10 ppm	

III. Control Device Monitoring Parameters

Parameter Monitored	Monitoring Device	Data Collection Frequency	Averaging Period	Recordkeeping	QA / QC
Fuel Flow Rate	Fuel Oil & Natural Gas Fuel Flowmeters	Continuous	Hourly	Hourly Averages Maintained on Data Acquisition System	40 CFR Part 75 Fuel Flowmeter QA/QC: Accuracy testing at least once every four fuel flowmeter QA operating quarters.[7] No more than 20 successive calendar quarters shall elapse between accuracy tests. Fuel flowmeter shall meet a flow meter accuracy of 2 percent of the upper range.
Water Flow Rate	Water Flowmeter	Continuous		Water flow rate is used with fuel flow rate to calculate "Water to Fuel Injection Ratio" in the turbine control system. This calculated value is sent to the Data Acquisition System.	Accuracy testing at least once every four water flowmeter QA operating quarters.[8] No more than 20 successive calendar quarters shall elapse between accuracy tests. Water flowmeter shall meet a flow meter accuracy of 2 percent of the upper range.
Water to Fuel Injection Ratio	Data Acquisition System	Continuous	Hourly	Hourly Averages Maintained on Data Acquisition System	N/A

[7] – 'Fuel Flowmeter QA operating quarters' as defined in 40 CFR Part 72 §72.2 means "a unit operating quarter in which the unit combusts the fuel measured by the fuel flowmeter for at least 168 operating hours or more".

[8] – 'Water Flowmeter QA operating quarters' means "a quarter in which the unit injects water as measured by the water flowmeter for at least 168 water injection operating hours or more".

IV. Water-to-Fuel Ratio Indicator Ranges

Fuel Flow (gal/hour)	Fuel Oil Operation – Water-to-Fuel Injection Ratio	Basis for Water-to-Fuel Injection Ratio
3240	0.80 typical water to fuel injection ratio at this fuel flow rate. *	40 CFR Part 75, Appendix E Testing & Subpart GG Performance Testing Conducted in May 2006
4380	0.90 typical water to fuel injection ratio at this fuel flow rate. *	
5580	1.20 typical water to fuel injection ratio at this fuel flow rate. *	
7181	1.60 typical water to fuel injection ratio at this fuel flow rate. *	

* – The NO_X emissions measured at the 4 tested operating points were less than 82% of the 40 CFR Part 60, Subpart GG §60.332 (a)(1) NO_X limit. The water to fuel injection ratios shown in the table above are "typical" values that can vary depending on ambient conditions and turbine operating criteria. The combustion turbine manufacturer's design water to fuel injection ratio can vary from 0.15 to 2.5 over the operating range of the turbine. Although the ratios can vary somewhat from the tested values, the NO_X emissions at ISO conditions will remain below the NO_X limit established by 40 CFR Part 60, Subpart GG §60.332 (a)(1).

Fuel Flow (gal/hour)	Natural Gas Operation – Water-to-Fuel Injection Ratio	Basis for Water-to-Fuel Injection Ratio
All fuel flows.	No water injection. (Dry low-NO_X burner)	40 CFR Part 75, Appendix E Testing & Subpart GG Performance Testing Conducted in April 2006

CAM Justification and Implementation

A. Background

The water injection system for the Unit #3 combustion turbine at LES Rokeby Station was determined to be subject to Compliance Assurance Monitoring (CAM), as it meets the three CAM applicability criteria listed in 40 CFR Part 64. The parameters and associated indicator ranges presented above assure that the water injection system is operated such that it minimizes the formation of NO_X emissions to less than the NO_X emission standard contained in the New Source Performance Standard (NSPS) for Stationary Gas Turbines, 40 CFR Part 60, Subpart GG.

B. Rationale for Selection of Performance Indicator and Range

40 CFR Part 60, Subpart GG includes a NO_X emission standard for combustion turbines. Further, Subpart GG requires that owners/operators of combustion turbines that use water injection to minimize NO_X emissions operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine. Further, Subpart GG requires an initial performance test to determine the ratio of water to fuel required to comply with the NO_X standard at four loads in the normal operating range, including minimum and maximum load. Testing to establish the relationship between water injection and NO_X emissions is also conducted every 5 years as part of complying with 40 CFR Part 75, Appendix E. LES conducted the most recent performance testing in April 2006 and May 2006; as specified in 40 CFR Part 75, Appendix E. LES tested at four load points on fuel oil and natural gas fuel. The operating loads and the associated water-to-fuel ratios for which compliance with the NO_X emission standard was demonstrated are presented above. No changes to the combustion turbine or the water injection system have occurred since initial performance testing that would affect the indicator ranges presented herein. Consequently, maintaining the water-to-fuel ratio at or above the specified ranges as established during performance testing would assure that the turbine is operating in a manner that will achieve the NSPS Subpart GG NO_X emission standard.

C. Monitoring Implementation Plan

LES is currently complying with Subpart GG. Consequently, the monitoring submitted in this CAM plan does not require the installation of additional monitoring devices or/and additional testing. However, clarification on the QA/QC procedures related to the metering equipment is required. For the Unit #3 combustion turbine, LES is currently complying with the requirement for fuel flow meter calibrations in 40 CFR Part 75 Appendix D, Section 2.1.6. LES is proposing to use the QA/QC requirements for the fuel flow meters included in 40 CFR Part 75 Appendix D, Section 2.1.6 for both the fuel flow and water flow meters associated with the water injection system. LES proposes to conduct an initial accuracy check of the existing water and fuel flow meters within 180 days following approval of the Title V permit that includes the CAM requirements. Subsequent accuracy tests will occur as specified.

Attachment C

January 19, 1999 LES Rokeby Generating Station Custom Fuel Monitoring Schedule

Permitting Note: The pages of this attachment (starting on the following page) are reproductions of the original letter and associated attachments/enclosures from EPA approving the Custom Fuel Monitoring Schedule for the LES Rokeby Generating Station. For a copy of the original documents, contact the Lincoln-Lancaster County Health Department (LLCHD) Air Quality Section at (402) 441-8040.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII
726 MINNESOTA AVENUE
KANSAS CITY, KANSAS 66101

JAN 19 1999

Certified Mail
Return Receipt Requested

Rich Kosch, Manager
Power Supply Division
Lincoln Electric System
P.O. Box 80869
Lincoln, NE 68501-0869

Dear Mr. Kosch:

Re: NSPS, Subpart GG – J Street Station and Rokeby Station -- Custom Fuel Sulfur and/or Nitrogen Content Monitoring Schedule; Pipeline-Quality Natural Gas

In consideration of the information in letters dated 10/27/98 and 1/08/99, and of 40 CFR 60.334(b)(2) and 60.13(i), we deny the company's request for a waiver of the **sulfur content** measurement requirements set forth in the above-mentioned regulation in that current EPA policy does not allow such waivers; however, we hereby grant the custom schedule set forth below for application with respect to the measurement of the sulfur and nitrogen content of the **pipeline-quality natural gas** to be burned in the NSPS/Subpart GG-affected turbines at the above-mentioned stations:

[NOTE 1: The custom schedule and associated provisions are effective immediately upon the company's receipt date of this letter (see also Item 4 of this letter) and remain in effect unless the owner/operator subsequently informs the EPA region office by letter that the owner/operator rejects the schedule or has decided to no longer comply with the schedule or associated provisions (in which case, the monitoring requirements as set forth in 40 CFR Part 60, Subpart GG, at the time of the owner/operator's letter automatically and immediately become applicable) or unless the custom schedule is replaced or revoked for any reason by EPA.

[NOTE 2 (Oil-firing): The company's letter of 1/08/99 states that the turbines have fuel oil firing capability. The Custom Schedule that follows is valid for only those periods of time when the units in question fire pipeline-quality natural gas. During periods of oil firing, or as needed to meet the requirements of Subpart GG, the owner/operator must measure on a daily [or on a transfer to bulk storage] basis the sulfur and the nitrogen content of the oil to be fired in the units. If the owner/operator

plans to use a measurement method other than one of those methods specified in NSPS, Subpart GG, we suggest that the owner/operator obtain EPA's prior approval of the method].

CUSTOM SCHEDULE

1. The "Conditions for Custom Fuel Sampling Schedule for Stationary Gas Turbines" as set forth on the **Enclosure** attached to EPA memorandum entitled "Authority for Approval of Custom Fuel Monitoring Schedules Under NSPS Subpart GG", dated Aug 14, 1987, is herein incorporated by reference; a copy of the **Enclosure** is attached and is modified below.

1a. With regard to 2.a of the above-mentioned Enclosure, the "approved alternative method" shall mean the following:

The Gas Processors Association's (GPA's) Standard 2377 (Test for Hydrogen Sulfide and Carbon Dioxide in Natural Gas Using Length of Stain Tubes), **as currently in effect and (as discussed below) as may be revised from time-to-time by the GPA.** The company's letter of 1/08/99 proposes the use of GPA 2377-86 (i.e., the 1986 version of the Standard). It is the company's responsibility to obtain the most recent updated version of GPA 2377 and to use said updated Standard as the initial measurement method for purposes of this custom schedule.

1b. The owner/operator shall inform the EPA regional office, by letter, of any revision to the Standard by the issuing entity, shall immediately begin using the revised Standard, and shall continue to use the revised Standard until the EPA regional office requests otherwise.

The owner/operator shall inform the EPA regional office, by letter, of the discontinuation of the Standard by the issuing entity. The owner/operator shall continue to use the discontinued Standard until the EPA regional office requests otherwise.

The above notification(s) regarding the revision or discontinuation of the Standard shall be sent to the regional office within 30 calendar days of the owner/operator's knowledge of such.

1c. With regard to 2.d and 3 of the **Enclosure**, the mention of "State" or "State Air Control Board" shall mean the EPA, Region VII, Air, RCRA, and Toxics Division (ARTD); i.e., the EPA regional office.

2. For purposes of accountability and quality assurance regarding the recorded measurements, we suggest that certain information be recorded and maintained by the owner/operator [see Attachment A]. Our suggestions, however, do no relieve the owner/operator of its responsibility to record and maintain all information that may be needed by the regional office to verify

that the owner/operator has met all requirements and/or recommendations of GPA Standard 2377 or of the NSPS regulation.

3. This custom schedule is subject to revision or revocation, without prior notice, at the discretion of the EPA regional office.

4. The owner/operator shall inform the EPA regional office by letter of its acceptance of this Custom Schedule [and associated provisions] and of the date the company will begin to implement the schedule. It is understood that a change of ownership will not void the schedule but that a change of location and/or gas supplier may invalided the schedule.

5. If the owner/operator of the turbines decides to no longer comply with any requirement of this custom schedule as set forth above or as subsequently revised by the EPA regional office, the owner/operator shall immediately comply with all applicable requirements of 40 CFR Part 60, Subpart GG, shall record and maintain appropriate records and shall notify the EPA regional office of the company's decisions; said notification shall be made by letter to the Chief, Air Permitting and Compliance Branch postmarked no later than 7 calendar days of said decision.

6. The above provisions presume that the owner/operator of the turbine(s) affected by the requirements of this Custom Schedule will perform the fuel sulfur/nitrogen content measurement procedures. This document allows the use of an outside party (e.g., an independent lab, the fuel supplier) to collect, record and/or maintain measurements for the owner/operator as long as: 1) all requirements of this custom schedule document and all non-superseded applicable requirements of the NSPS Subparts A and GG are pet on an on-going basis, 2) the owner/operator has given the EPA regional office prior written notice of such arrangement and of the date the arrangement will commence and 3) the EPA regional office will have access to pertinent records.

END OF CUSTOM SCHEDULE

If you have any questions pertaining to this letter, please contact me or Dan Rodriquez of my staff at 913-551-7020.

Sincerely,

Donald C. Toensing
Chief
Air Permitting & Compliance Branch

Enclosures: **Enclosure** attached to EPA memo dated Aug 14, 1987
: Attachment A

cc: Rick Thorson
Lincoln-Lancaster County Health Dept.

Enclosure

Conditions for Custom Fuel Sampling Schedule for Stationary Gas Turbines

1. Monitoring of fuel nitrogen content shall not be required while natural gas is the only fuel fired in the gas turbine.

2. Sulfur Monitoring

   a. Analysis for fuel sulfur content of the natural gas shall be conducted using one of the approved ASTM reference methods for the measurement of sulfur in gaseous fuels, or an approved alternative method. The reference methods are: ASTM D1072-80; ASTM D3031-81; ASTM D3246-81; and ASTM D4084-82 as referenced in 40 CFR 60.335(b)(2).

   b. Effective the date of this custom schedule, sulfur monitoring shall be conducted twice monthly for six months. If this monitoring shows little variability in the fuel sulfur content, and indicates consistent compliance with 40 CFR 60.333, then sulfur monitoring shall be conducted once per quarter for six quarters.

   c. If after the monitoring required in item 2(b) above, or herein, the sulfur content of the fuel shows little variability and, calculated as sulfur dioxide, represents consistent compliance with the sulfur dioxide emission limits specified under 40 CFR 60.333, sample analysis shall be conducted twice per annum. This monitoring shall be conducted during the first and third quarters of each calendar year.

   d. Should any sulfur analysis as required in items 2(b) or 2(c) above indicate noncompliance with 40 CFR 60.333, the owner or operator shall notify the State Air Control Board of such excess emissions and the custom schedule shall be re-examined by the Environmental Protection Agency. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.

3. If there is a change in fuel supply, the owner or operator must notify the State of such change for re-examination of this custom schedule. A substantial change in fuel quality shall be considered as a change in fuel supply. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.

4. Records of sample analysis and fuel supply pertinent to this custom schedule shall be retained for a period of three years, and be available for inspection by personnel of federal, state, and local air pollution control agencies.

Attachment A

Re: Measurements Using GPA Standard 2377

For the purposes of accountability and quality assurance regarding the recorded measurements, we suggest that the owner/operator, at a minimum, record and maintain the following information:

a. **Maintenance records** and **malfunction records** (possibly via appropriate "notes" on data record sheets) pertaining to the measurement equipment (e.g., pumps, containers).

b. **Purchase records** pertaining to the major components of the measurement equipment (e.g., pumps, detection tubes). At a minimum, the following additional information should be included: Quantity and date purchase/received, detection tube type (for H2S or for CO measurement) and model number, the detection range of the tubes purchased/received, pump model number, the temperature range of the tubes and data conversion sheets supplied by detection tube manufacturers. Retention of manufacturer spec sheets for the equipment in question will probably suffice if the sheets contain the needed information.

c. We suggest that each **data recording sheet** contain, at a minimum, the following recorded information [NOTE: Where appropriate, a "check sheet" format might be useful]:

General Information

- The date of the reading, the number of pump strokes used to draw the gas through the detection tube, the measurement reading and the reader's name or initials [and the reader's affiliation if other than the owner/operator].

- Any adjustment calculations, if/when made.

- Each measurement expressed in terms of the reading and the applicable standard (e.g., ppm, by wt.) and, where NSPS Subpart GG requires, in terms of SO2 equivalent.

- Each completed data sheet should contain a signed statement by a manager equivalent or greater that the person making the measurement has been adequately trained by the owner/operator regarding the procedures of the Standard and that the measurement was made in accordance with the Standard.

Alternative Method-Specific Information

- An indication if the age of the tube used is greater than 2 years old relative to its date of manufacture.

- The temperature of the sampled gas.

- The results of the pump leak detection procedure recommended by the Standard. The leak detection procedure must be conducted prior to the use of the pump and each time the pump is used. A loss of vacuum within 30 seconds should be noted as well as corrective actions taken, if any.

- The tube's detection range or Model number.

- The duration of "purging" of the gas sample container prior to each measurement.

Attachment D

Requirements of Construction Permit No. 079C

The following conditions set forth under Construction Permit No. 079C, effective March 1, 2019, apply to the following emission unit(s):

- EU 1-1 (660.0 MMBtu/hr Combustion Turbine – Fuel Oil Firing)
- EU 1-2 (660.0 MMBtu/hr Combustion Turbine – Natural Gas Firing)

Note: The 'General Conditions' (I-XXX) of this construction permit have not been incorporated into this table, as those conditions are either reflected in this operating permit, or are not relevant to this permitting action. Those conditions do, however, remain applicable and federally-enforceable requirements.

Specific Conditions:

XXXI. This permit (Construction Permit No. 079C) authorizes the owner/operator to install and operate a 660.0 MMBtu/hr combustion turbine (a.k.a. Rokeby 1). The owner/operator shall install and operate this emission unit in accordance with the following requirements:

(A) Operational Requirements.

(1) The owner/operator shall limit the sulfur content of fuel oil combusted in Rokeby 1 to no more than 0.05%, by weight.

(B) Emission Limits.

(1) The owner/operator shall limit the emissions from Rokeby 1 during any consecutive 12-month period in accordance with the emission limits set forth in Table A-1 below:

TABLE A-1:
ROLLING 12-MONTH EMISSION LIMITS FOR ROKEBY 1

Pollutant	Emission Limit
NO_X	≤ 249.0 tons
CO	≤ 249.0 tons

(2) The owner/operator shall limit the emissions of hazardous air pollutants from all emission units located at this source during any consecutive 12-month period in accordance with the emission limits set forth in Table A-2 below:

TABLE A-2: SOURCE-WIDE
ROLLING 12-MONTH EMISSION LIMITS FOR HAZARDOUS AIR POLLUTANTS

Pollutant	Emission Limit
Any Individual Hazardous Air Pollutant	< 10.0 tons
Total Combined Hazardous Air Pollutants	< 25.0 tons

(3) The owner/operator shall comply with the NO_X emission standard set forth in 40 CFR Part 60, Subpart GG §60.332 paragraph (a)(1) when burning natural gas or fuel oil.

(4) The owner/operator shall comply with the standard for sulfur dioxide (SO_2) set forth in 40 CFR Part 60, Subpart GG §60.333 paragraphs (a) and (b).

(5) The owner/operator shall maintain compliance with all particulate emission limits set forth in Condition XVIII of this permit.

(6) The owner/operator shall maintain compliance with the sulfur oxide emission limit set forth in Condition XIX of this permit.

(C) Emission Testing Requirements.

(1) The owner/operator shall comply with the test methods and procedures set forth in 40 CFR Part 60, Subpart GG §60.335 paragraphs (a) through (c). Emission testing shall be performed according to 40 CFR Part 60, Subpart A §60.8 paragraphs (a) through (f), unless a waiver is granted by the Director in accordance with §60.8 paragraph (b). Additionally, emission tests for CO shall be required for natural gas and fuel oil combustion at various water injection/fuel ratios to establish emission rates for this pollutant. Emission testing for CO shall be performed using Method 10 at 40 CFR Part 60, Appendix A, or an alternative method that is acceptable to the Director. The

	owner/operator shall also comply with all of the applicable testing and monitoring requirements set forth in Article 2, Section 34 of the LLCAPCPRS.
(C)	Emission Testing Requirements. (*continued*) (2) The owner/operator shall notify the Department of the intent to conduct performance tests no later than 30 days prior to the scheduled date of performance testing. (3) The owner/operator shall report the results of all performance tests as required in paragraph (F)(3) of this condition.
(D)	Monitoring Requirements. (1) To ensure that emissions of NO_X and CO are maintained in accordance with the emission limits established under paragraph (B)(1) of this condition, the owner/operator shall utilize the present computerized data acquisition and handling system (DAHS) to provide hourly tracking of NO_X and CO emissions under various operating scenarios that include: natural gas and distillate fuel oil combustion at various load conditions, with or without inlet cooling, and with or without water injection at various water/fuel ratios. Hourly average NO_X and CO emission rates, in pounds per hour, shall be calculated based on the most recent performance test data available. (2) The owner/operator shall develop equations that relate NO_X and CO emissions to natural gas and fuel oil consumption for all turbine operating scenarios that will be utilized. This information shall be used to limit the amount of natural gas and fuel oil combusted in order to ensure compliance with the emission limits established under paragraph (B)(1) of this condition. (3) The owner/operator shall comply with the monitoring requirements set forth in 40 CFR Part 60, Subpart GG §60.334. Applicable monitoring requirements are as follows: (a) In accordance with §60.334 paragraph (a), the owner/operator shall install and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel for the water injection system. (b) In accordance with §60.334(b), the owner/operator shall monitor the sulfur content and nitrogen content of the fuels that are burned. The frequency of monitoring shall be according to §60.334(b)(1) and (2).
(E)	Record Keeping Requirements. (1) The owner/operator shall comply with the startup, shutdown, and malfunction record keeping requirements set forth in 40 CFR Part 60, Subpart A §60.7 paragraph (b). (2) The owner/operator shall maintain records of all required monitoring information, which shall include the following: (a) The date and place as defined in the permit, and time of sampling or measurements; (b) The date(s) analyses were performed; (c) The company or entity that performed the analyses; (d) The analytical techniques or methods used; (e) The results of such analyses; and (f) The operating conditions existing at the time of sampling or measurement. (3) The owner/operator shall retain records of all required monitoring data, reports, and support information required by this permit for a period of at least 60 months from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. These records shall be readily accessible and made available for inspection upon request by the Department.
(F)	Reporting Requirements. (1) No later than 30 days after the end of each semi-annual reporting period (January 1 through June 30, and July 1 through December 31), the owner/operator shall report the following to the Department: (a) For Rokeby 1, emissions of NO_X and CO for each month of the semi-annual reporting period; (b) For Rokeby 1, rolling 12-month emission totals of NO_X and CO for each month of the semi-annual reporting period;

	(c) For Rokeby 1, consumption of natural gas and fuel oil for each month of the semi-annual reporting period;
(F)	Reporting Requirements. (*continued*) (d) For Rokeby 1, rolling 12-month totals of natural gas and fuel oil consumption for each month of the semi-annual reporting period; (e) For Rokeby 1, rolling 12-month totals of hours of operation on each fuel type for each month of the semi-annual reporting period; (f) For the entire source, emissions of the greatest single HAP, as well as total combined HAPs for each month in the semi-annual reporting period; (g) For the entire source, rolling 12-month emission totals for the greatest single HAP, as well as total combined HAPs for each month in the semi-annual reporting period. (2) The owner/operator shall report all criteria air pollutant and hazardous air pollutant emissions to the Department annually in accordance with the requirements set forth in Condition XIV of this permit. (3) The owner/operator shall submit the result of all required performance tests to the Department within 60 days of the completion of such tests. (4) The owner/operator shall report excess emissions as required at 40 CFR Part 60, Subpart A §60.7 paragraph (c). Excess emission reporting shall be conducted in accordance with 40 CFR Part 60, Subpart GG §60.334 paragraphs (c)(1)-(2).
(G)	Other Requirements. (1) No modifications to the turbine or any associated equipment, other than those stipulated by this permit, shall be made without the written approval of the permit grantor. Modifications may be subject to the NSPS (40 CFR Part 60) Subpart GG. (2) The owner/operator shall maintain compliance with requirements set forth in 40 CFR Part 60, Subpart A §60.11 paragraphs (a) and (d), except as may be provided for in §60.8 paragraph (b). (3) The owner/operator shall notify the LLCHD of any malfunctions in the water injection system within one hour of such occurrence by calling 441-8040 between 8:00 a.m. and 4:30 p.m. Monday through Friday and 441-8000 at all other times. (4) Any control or monitoring equipment that may be necessary for compliance with the LLCAPCPRS or any similar requirements of the Federal EPA shall be installed within the time period or by the date specified in the applicable rule or regulation.

Attachment E

Requirements of Construction Permit No. 080C

The following conditions set forth under Construction Permit No. 080C, effective March 1, 2019, apply to the following emission unit(s):

- EU 2-1 (882.0 MMBtu/hr Combustion Turbine – Fuel Oil Firing)
- EU 2-2 (882.0 MMBtu/hr Combustion Turbine – Natural Gas Firing)
- EU 4-1 (16.75 MMBtu/hr Blackstart Engine #1 – Fuel Oil Firing)
- EU 5-1 (16.75 MMBtu/hr Blackstart Engine #2 – Fuel Oil Firing)

Note: The 'General Conditions' (I-XXX) of this construction permit have not been incorporated into this table, as those conditions are either reflected in this operating permit, or are not relevant to this permitting action. Those conditions do, however, remain applicable and federally-enforceable requirements.

Specific Conditions:

XXXI. This permit (Construction Permit No. 080C) authorizes the owner/operator to install and operate a 882.0 MMBtu/hr combustion turbine (a.k.a. Rokeby 2), as well as a blackstart generator comprised of two (2) fuel oil-fired engines (emission units 4-1 and 5-1). The owner/operator shall install and operate these emission units in accordance with the following requirements:

(A) Operational Requirements.

(1) The owner/operator shall limit the sulfur content of fuel oil combusted in Rokeby 2 to no more than 0.05%, by weight.

(2) The owner/operator shall limit the combined hours of operation of the blackstart engines on fuel oil to no more than 500 hours during any consecutive 12-month period.

(3) The water injection system shall be utilized when the turbine is operated on fuel oil. A water/fuel ratio sufficient to ensure compliance with the NO_X emission standard referenced in paragraph (B)(3) of this condition shall be employed.

(B) Emission Limits.

(1) The owner/operator shall limit the combined emissions from Rokeby 2 and the blackstart engines during any consecutive 12-month period in accordance with the emission limits set forth in Table A-1 below:

TABLE A-1:

ROLLING 12-MONTH EMISSION LIMITS FOR ROKEBY 2

Pollutant	Emission Limit
PM_{10}	≤ 249.0 tons
NO_X	≤ 249.0 tons
SO_2	≤ 249.0 tons
VOC	≤ 249.0 tons
CO	≤ 249.0 tons

(2) The owner/operator shall limit the emissions of hazardous air pollutants from all emission units located at this source during any consecutive 12-month period in accordance with the emission limits set forth in Table A-2 below:

TABLE A-2: SOURCE-WIDE

ROLLING 12-MONTH EMISSION LIMITS FOR HAZARDOUS AIR POLLUTANTS

Pollutant	Emission Limit
Any Individual Hazardous Air Pollutant	< 10.0 tons
Total Combined Hazardous Air Pollutants	< 25.0 tons

(3) The owner/operator shall comply with the NO_X emission standard set forth in 40 CFR Part 60, Subpart GG §60.332 paragraph (a)(1) when burning natural gas or fuel oil.

(4) The owner/operator shall comply with the standard for sulfur dioxide (SO_2) set forth in 40 CFR Part 60, Subpart GG §60.333 paragraphs (a) and (b).

(5) The owner/operator shall maintain compliance with all particulate emission limits set forth in Condition XVIII of this permit.

(B)	Emission Limits. (*continued*) (6) The owner/operator shall maintain compliance with the sulfur oxide emission limit set forth in Condition XIX of this permit.
(C)	Emission Testing Requirements. (1) The owner/operator shall comply with the test methods and procedures set forth in 40 CFR Part 60, Subpart GG §60.335 paragraphs (a) through (c). Emission testing shall be performed according to 40 CFR Part 60, Subpart A §60.8 paragraphs (a) through (f), unless a waiver is granted by the Director in accordance with §60.8 paragraph (b). Additionally, emission tests for CO shall be required for natural gas and fuel oil combustion at various water injection/fuel ratios to establish emission rates for this pollutant. Emission testing for CO shall be performed using Method 10 at 40 CFR Part 60, Appendix A, or an alternative method that is acceptable to the Director. The owner/operator shall also comply with all of the applicable testing and monitoring requirements set forth in Article 2, Section 34 of the LLCAPCPRS. (2) The owner/operator shall notify the Department of the intent to conduct performance tests no later than 30 days prior to the scheduled date of performance testing. (3) The owner/operator shall report the results of all performance tests as required in paragraph (F)(2) of this condition.
(D)	Monitoring Requirements. (1) To ensure that emissions of NO_X and CO are maintained in accordance with the emission limits established under paragraph (B)(1) of this condition, the owner/operator shall utilize the present computerized data acquisition and handling system (DAHS) to provide hourly tracking of NO_X and CO emissions under various operating scenarios that include: natural gas and distillate fuel oil combustion at various load conditions, with or without inlet cooling, and with or without water injection at various water/fuel ratios. Hourly average NO_X and CO emission rates, in pounds per hour, shall be calculated based on the most recent performance test data available. (2) CO and NO_X emissions from the diesel engine shall be calculated from the emissions data submitted by the engine manufacturer. (3) The owner/operator shall develop equations that relate NO_X and CO emissions to natural gas and fuel oil consumption for all turbine operating scenarios that will be utilized. This information shall be used to limit the amount of natural gas and fuel oil combusted in order to ensure compliance with the emission limits established under paragraph (B)(1) of this condition. (4) The owner/operator shall comply with the monitoring requirements set forth in 40 CFR Part 60, Subpart GG §60.334. Applicable monitoring requirements are as follows: (a) In accordance with §60.334 paragraph (a), the owner/operator shall install and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel for the water injection system. (b) In accordance with §60.334(b), the owner/operator shall monitor the sulfur content and nitrogen content of the fuels that are burned. The frequency of monitoring shall be according to §60.334(b)(1) and (2).
(E)	Record Keeping Requirements. (1) The owner/operator shall comply with the startup, shutdown, and malfunction record keeping requirements set forth in 40 CFR Part 60, Subpart A §60.7 paragraph (b). (2) The owner/operator shall maintain records of all required monitoring information, which shall include the following: (a) The date and place as defined in the permit, and time of sampling or measurements; (b) The date(s) analyses were performed; (c) The company or entity that performed the analyses; (d) The analytical techniques or methods used; (e) The results of such analyses; and (f) The operating conditions existing at the time of sampling or measurement.

(E)	Record Keeping Requirements. (*continued*) (3) The owner/operator shall retain records of all required monitoring data, reports, and support information required by this permit for a period of at least 60 months from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. These records shall be readily accessible and made available for inspection upon request by the Department.
(F)	Reporting Requirements. (1) No later than 30 days after the end of each semi-annual reporting period (January 1 through June 30, and July 1 through December 31), the owner/operator shall report the following to the Department: (a) For Rokeby 2 and the blackstart generator engines, combined emissions of NO_X and CO for each month of the semi-annual reporting period; (b) For Rokeby 2 and the blackstart generator engines, rolling 12-month totals of combined emissions of NO_X and CO for each month of the semi-annual reporting period; (c) For Rokeby 2 and the blackstart generator engines, consumption of natural gas and fuel oil for each month of the semi-annual reporting period; (d) For Rokeby 2 and the blackstart generator engines, rolling 12-month totals of natural gas and fuel oil consumption for each month of the semi-annual reporting period; (e) For Rokeby 2 and the blackstart generator engines, rolling 12-month totals of hours of operation on each fuel type for each month of the semi-annual reporting period; (f) For the entire source, emissions of the greatest single HAP, as well as total combined HAPs for each month in the semi-annual reporting period; (g) For the entire source, rolling 12-month emission totals for the greatest single HAP, as well as total combined HAPs for each month in the semi-annual reporting period. (2) The owner/operator shall report all criteria air pollutant and hazardous air pollutant emissions to the Department annually in accordance with the requirements set forth in Condition XIV of this permit. (3) The owner/operator shall submit the result of all required performance tests to the Department within 60 days of the completion of such tests. (4) The owner/operator shall report excess emissions as required at 40 CFR Part 60, Subpart A §60.7 paragraph (c). Excess emission reporting shall be conducted in accordance with 40 CFR Part 60, Subpart GG §60.334 paragraphs (c)(1)-(2).
(G)	Other Requirements. (1) The owner/operator shall operate Rokeby 2 in compliance with the Acid Rain rules (Article 2, Section 26 LLCAPCPRS) referenced as follows: (a) 40 CFR Part 72 Subparts A, B, C, D, E, G, H, and I and applicable sections; (b) 40 CFR Part 73 Subparts A, B, C, D, E, and F, and applicable sections; (c) 40 CFR Part 75 Subparts A, B, C, D, E, F, and G, and applicable sections, and Appendixes A, B, C, D, E, F, G, and J; (d) 40 CFR Part 77; and (e) 40 CFR Part 78 (2) No modifications to the turbine, the blackstart engines, or any associated equipment, other than those stipulated by this permit, shall be made without the written approval of the permit grantor. Modifications may be subject to the NSPS (40 CFR Part 60) Subparts GG. (3) The owner/operator shall maintain compliance with requirements set forth in 40 CFR Part 60, Subpart A §60.11 paragraphs (a) and (d), except as may be provided for in §60.8 paragraph (b). (4) The owner/operator shall notify the LLCHD of any malfunctions in the turbine, the blackstart engines, or the water injection system within one hour of such occurrence by calling 441-8040 between 8:00 a.m. and 4:30 p.m. Monday through Friday and 441-8000 at all other times.

(G)	Other Requirements. (*continued*) (5) Any control or monitoring equipment that may be necessary for compliance with the LLCAPCPRS or any similar requirements of the Federal EPA shall be installed within the time period or by the date specified in the applicable rule or regulation.

Attachment F

Requirements of Construction Permit No. 101D

The following conditions set forth under Construction Permit No. 101D, effective March 1, 2019, apply to the following emission unit(s):

- EU 3-1 (1037.0 MMBtu/hr Combustion Turbine – Fuel Oil Firing)
- EU 3-2 (1037.0 MMBtu/hr Combustion Turbine – Natural Gas Firing)

Note: The 'General Conditions' (I-XXX) of this construction permit have not been incorporated into this table, as those conditions are either reflected in this operating permit, or are not relevant to this permitting action. Those conditions do, however, remain applicable and federally-enforceable requirements.

Specific Conditions:

XXXI. This permit (Construction Permit No. 101D) authorizes the owner/operator to install and operate a 1,037.0 MMBtu/hr combustion turbine (a.k.a. Rokeby 3). The owner/operator shall install and operate this emission unit in accordance with the following requirements:

(A) Operational Requirements.

(1) The owner/operator shall limit the sulfur content of fuel oil combusted in Rokeby 3 to no more than 0.05%, by weight.

(2) The owner/operator shall limit the total hours of operation of Rokeby 3 to no more than 3,504 operating hours during any consecutive 12-month period.

(3) The owner/operator shall limit the hours of operation of Rokeby 3 on fuel oil to no more than 526 operating hours during any consecutive 12-month period.

(4) The owner/operator shall limit the combustion of natural gas in Rokeby 3 to no more than 2,549 million cubic feet (MMcf) during any consecutive 12-month period.

(5) The owner/operator shall limit the combustion of #2 fuel oil in Rokeby 3 to no more than 3,451 thousand gallons (Mgal) during any consecutive 12-month period.

(B) Emission Limits.

(1) The owner/operator shall limit the combined emissions from Rokeby 3 during any consecutive 12-month period in accordance with the emission limits set forth in Table A-1 below:

TABLE A-1:
ROLLING 12-MONTH EMISSION LIMITS FOR ROKEBY 3

Pollutant	Emission Limit
PM_{10} (Particulate matter less than 10 micrometers diameter)	≤ 14.60 tons
NO_X	≤ 153.12 tons
SO_2 (Sulfur Dioxide)	≤ 82.61 tons
VOC (Volatile Organic Compounds)	≤ 8.66 tons
CO	≤ 99.00 tons
Lead	≤ 0.03 tons
Formaldehyde	≤ 4.33 tons

(2) The owner/operator shall limit the emissions of hazardous air pollutants from all emission units located at this source during any consecutive 12-month period in accordance with the emission limits set forth in Table A-2 below:

TABLE A-2: SOURCE-WIDE
ROLLING 12-MONTH EMISSION LIMITS FOR HAZARDOUS AIR POLLUTANTS

Pollutant	Emission Limit
Any Individual Hazardous Air Pollutant	< 10.0 tons
Total Combined Hazardous Air Pollutants	< 25.0 tons

(B) Emission Limits. (*continued*)

(3) The owner/operator shall limit the emissions from Rokeby 3 to the quantities set forth in Table A-3 below when operating at base load conditions. Compliance with these emission limits shall be established in accordance with paragraph (C)(2) of this condition.

Table A-3: NO_X BACT Emission Limits for Rokeby 3

Fuel Type	Pollutant	Emission Limits
Natural Gas	NO_X	25.0 ppm @ 15% O_2
		76.0 pounds per hour
No. 2 Fuel Oil	NO_X	42.0 ppm @ 15% O_2
		152.0 pounds per hour

(4) The owner/operator shall comply with the NO_X emission standard set forth in 40 CFR Part 60, Subpart GG §60.332 paragraph (a)(1) when burning natural gas or fuel oil.

(5) The owner/operator shall comply with the standard for sulfur dioxide (SO_2) set forth in 40 CFR Part 60, Subpart GG §60.333 paragraphs (a) and (b).

(6) The owner/operator shall maintain compliance with all particulate emission limits set forth in Condition XVIII of this permit. Particulate matter emissions shall not exceed the allowable rate of 0.21 lbs/MMBtu, calculated in accordance with Condition XVIII(B) of this permit.

(7) The owner/operator shall maintain compliance with the sulfur oxide emission limit set forth in Condition XIX of this permit.

(C) Emission and Performance Testing Requirements.

(1) The owner/operator shall comply with the test methods and procedures set forth in 40 CFR Part 60, Subpart GG §60.335 paragraphs (a) through (c). Emission testing shall be performed according to 40 CFR Part 60, Subpart A §60.8 paragraphs (a) through (f), unless a waiver is granted by the Director in accordance with §60.8 paragraph (b). Additionally, emission tests for CO shall be required for natural gas and fuel oil combustion at various water injection/fuel ratios to establish emission rates for this pollutant. Emission testing for CO shall be performed using Method 10 at 40 CFR Part 60, Appendix A, or an alternative method that is acceptable to the Director. The owner/operator shall also comply with all of the applicable testing and monitoring requirements set forth in Article 2, Section 34 of the LLCAPCPRS.

(2) In order to demonstrate compliance with the NO_X BACT limits (in ppm) established under paragraph (B)(3) of this condition, as well as the NO_X standard set forth under paragraph (I)(2)(a) of this condition on an ongoing basis, the owner/operator shall conduct the following periodic emission/performance testing at base load conditions for the fuel types indicated and for the time periods specified.

(a) For natural gas combustion, testing of NO_X emissions using a portable gas analyzer shall be conducted once each calendar year. These annual performance tests are not required during the calendar years when EPA Reference Methods air emission tests are performed in accordance with the requirements of 40 CFR Part 75, Appendix E, 2.2 'Periodic NO_X Emission Rate Testing'. This testing shall be conducted in accordance with the following:

(i) Testing shall be conducted in accordance with instructions provided by the instrument manufacturer. The instrument shall be calibrated and maintained according to the protocol established by the manufacturer.

(ii) Unless indicated otherwise, the sampling ports provided for the Method 20 testing shall be utilized for the purpose of portable sampling.

(iii) The sampling shall be conducted over a one-hour period and shall consist of six NO_X readings (in ppm) taken at 10 minute intervals. A compliance determination shall be based on the average of the six readings.

(C) Emission and Performance Testing Requirements. (*continued*)

(b) For #2 fuel oil combustion, fuel oil usage and the water-to-fuel ratio, as determined by the continuous monitoring system (CMS), shall be monitored once during each calendar year for a period of thirty (30) consecutive minutes. These annual performance tests are not required during the calendar years when EPA Reference Methods air emission tests are performed in accordance with the requirements of 40 CFR Part 75, Appendix E, 2.2 'Periodic NO_X Emission Rate Testing'. This schedule is established only for the purpose of demonstrating compliance with the BACT limit. Monitoring of the water-to-fuel ratio through use of the CMS at all load conditions must continue to be conducted to demonstrate compliance with the applicable requirements of 40 CFR Part 60, Subpart GG when operating on fuel oil.

(3) The owner/operator shall notify the Department of the intent to conduct emission/performance tests no later than 30 days prior to the scheduled date of emission/performance testing.

(4) The owner/operator shall report the results of all emission/performance tests as required in paragraph (H)(3) of this condition.

(D) Compliance Demonstration Requirements.

(1) Compliance with the emission limits set forth under paragraph (B)(1) of this condition shall be determined in accordance with the following methods:

(a) For PM10, compliance shall be determined by using the hours of operation and the emission rates (in pounds per hour) for this pollutant presented in Appendix B, Table B-1 of the owner/operator's approved construction permit application. Compliance shall further be demonstrated as follows:

(i) If the owner/operator is unable to provide satisfactory documentation that the particulate matter maximum emission rates (0.0061 lb/MMBtu and 5.32 lb/hr when burning natural gas; 0.0283 lb/MMBtu and 25.40 lb/hr when burning #2 fuel oil) guaranteed by the turbine manufacturer include both filterable and condensable particulate prior to operation of Rokeby 3, the owner/operator shall be required to conduct emission testing for this pollutant within the time period required in 40 CFR Part 60, Subpart A §60.8 paragraph (a).

(ii) For the purposes of paragraph (D)(1)(a)(i) of this condition, the testing shall be conducted according to EPA Test Method 5 at 40 CFR Part 60, Appendix A, and EPA Test Method 202 at 40 CFR Part 51, Appendix M. The testing shall include the particulate matter captured in both the front half and back half of the sampling train. Tests shall be conducted during operation on natural gas and during operation on #2 fuel oil. If testing reveals that the annual PM10 limit cannot be met, the owner/operator shall reduce the number of operating hours allowed under paragraphs (A)(2) and/or (A)(3) of this condition to a number that will ensure compliance with the PM10 emission limit set forth under paragraph (B)(1) of this condition.

(b) For NO_X, compliance shall be determined based on emission curves developed from the results of the most recent emission test data available for both fuel types and at various load conditions. In the event Rokeby 3 should no longer qualify as a gas-fired or oil-fired peaking unit, and a continuous emissions monitor (CEM) for NO_X is installed and operated, annual emissions of NO_X shall be obtained from the CEM data.

(c) For SO_2, compliance shall be determined based on the information obtained from the accepted monitoring system provided for in 40 CFR Part 75, Appendix D.

(d) For VOC, compliance shall be determined by using the hours of operation and the emission rates (in pounds per hour) for this pollutant presented in Appendix B, Table B-1 of the owner/operator's approved construction permit application.

(e) For CO, compliance shall be determined based on emission curves developed from the results of the most recent emission test data available for both fuel types and at various load conditions.

(D)	Compliance Demonstration Requirements. (*continued*) (f) For lead, compliance shall be determined by using the quantities of fuel combusted in conjunction with the HAP emission factors presented in Appendix A (Tables 3.1-3 and 3.1-4) of the owner/operator's approved construction permit application. (g) For HAPs, compliance shall be determined by using the quantities of fuel combusted in conjunction with the HAP emission factors presented in Appendix A (Tables 3.1-3 and 3.1-4) of the owner/operator's approved construction permit application.
(E)	Best Available Control Technology (BACT) Emission Control Requirements. (1) The owner/operator shall utilize dry low NO_X (DLN) burners to control NO_X emissions to meet the NO_X standard set forth under 40 CFR Part 60, Subpart GG §60.332 paragraph (a)(1) (see paragraph (I)(2)(a) of this condition) and the NO_X BACT limits established under paragraph (B)(3) of this condition for operation on natural gas. The use of DLN burners when combusting natural gas represents BACT. (2) The owner/operator shall utilize water injection and DLN burners to control NO_X emissions to meet the NO_X standard set forth under 40 CFR Part 60, Subpart GG §60.332 paragraph (a)(1) (see paragraph (I)(2)(a) of this condition) and the NO_X BACT limits established under paragraph (B)(3) of this condition for operation on #2 fuel oil. The use of water injection and DLN burners when combusting #2 fuel oil represents BACT. (3) The owner/operator shall maintain a water-to-fuel ratio sufficient to ensure compliance with the NO_X emission standard set forth under 40 CFR Part 60, Subpart GG §60.332 paragraph (a)(1) (see paragraph (I)(2)(a) of this condition) at each load condition specified under 40 CFR Part 60, Subpart GG §60.335 paragraph (c)(2). (4) The owner/operator shall maintain a water-to-fuel ratio sufficient to ensure compliance with the NO_X emission limit set forth under paragraph (B)(3) of this condition for operation on #2 fuel oil at base load. (5) The owner/operator shall only combust fuels that comply with the requirements set forth under paragraphs (A)(1) and (B)(5) of this condition. Fuels that meet these requirements represent BACT for SO_2 emissions.
(F)	Monitoring Requirements. (1) The owner/operator shall comply with the monitoring requirements set forth in 40 CFR Part 60, Subpart GG §60.334, which are referenced under paragraph (I)(2)(e) of this condition. (2) The monitoring procedures and schedules established in paragraph (C)(2) of this condition can be utilized as long as the unit continues to qualify as a gas-fired or oil-fired peaking unit as defined at 40 CFR Part 72, Subpart A §72.2. Should the unit no longer qualify as a gas-fired or oil-fired peaking unit, monitoring shall be conducted and compliance with the NO_X BACT limits (one-hour average basis) shall be assessed utilizing the NO_X continuous emissions monitor (CEM) required by the acid rain monitoring rule at 40 CFR Part 75. Compliance and excess emissions assessments that are made using the NO_X CEM shall be reported to the LLCHD according to the schedule set forth in paragraph (C)(2) of this condition for the portable NO_X testing, with the exception of monitoring reports that demonstrate compliance which shall be submitted no later than thirty (30) days after the end of each calendar quarter.
(G)	Record Keeping Requirements. (1) The owner/operator shall maintain the following records for Rokeby 3 on a monthly basis. These monthly records shall include totals for each month, as well as rolling 12-month totals: (a) Emissions of NO_X, SO_2, and formaldehyde; (b) The quantities of natural gas and #2 fuel oil combusted; (c) The total number of Rokeby 3 operating hours; (d) The number of Rokeby 3 operating hours on #2 fuel oil. (2) The owner/operator shall comply with the startup, shutdown, and malfunction record keeping requirements set forth in 40 CFR Part 60, Subpart A §60.7 paragraph (b).

(G)	Record Keeping Requirements. (*continued*) (3) The owner/operator shall maintain records of the required water-to-fuel ratio for each load condition specified under 40 CFR Part 60, Subpart GG §60.335 paragraph (c)(2), and the water-to-fuel ratios recorded by the continuous monitoring system during operation of the water injection system. These records shall be maintained on site and shall be available for inspection by representatives of the LLCHD, the NDEQ, or the USEPA. (4) The owner/operator shall maintain records of all required monitoring information, which shall include the following: (a) The date and place as defined in the permit, and time of sampling or measurements; (b) The date(s) analyses were performed; (c) The company or entity that performed the analyses; (d) The analytical techniques or methods used; (e) The results of such analyses; and (f) The operating conditions existing at the time of sampling or measurement. (5) The owner/operator shall retain records of all required monitoring data, reports, and support information required by this permit for a period of at least 60 months from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. These records shall be readily accessible and made available for inspection upon request by the Department.
(H)	Reporting Requirements. (1) No later than 30 days after the end of each semi-annual reporting period (January 1 through June 30, and July 1 through December 31), the owner/operator shall report the following to the Department: (a) For Rokeby 3, emissions of NO_X, SO_2, and formaldehyde for each month of the semi-annual reporting period; (b) For Rokeby 3, rolling 12-month emission totals of NO_X, SO_2, and formaldehyde for each month of the semi-annual reporting period; (c) For Rokeby 3, consumption of natural gas and fuel oil for each month of the semi-annual reporting period; (d) For Rokeby 3, rolling 12-month totals of natural gas and fuel oil consumption for each month of the semi-annual reporting period; (e) For Rokeby 3, rolling 12-month totals of hours of operation on each fuel type for each month of the semi-annual reporting period; (f) For the entire source, emissions of the greatest single HAP, as well as total combined HAPs for each month in the semi-annual reporting period; (g) For the entire source, rolling 12-month emission totals for the greatest single HAP, as well as total combined HAPs for each month in the semi-annual reporting period. (2) The owner/operator shall report all criteria air pollutant and hazardous air pollutant emissions to the Department annually in accordance with the requirements set forth in Condition XIV of this permit. For the purposes of this permit, annual emissions shall be calculated according to the procedures set forth under paragraph (D)(1) of this condition. (3) The owner/operator shall submit the result of all required performance tests to the Department within 60 days of the completion of such tests. (4) Subsequent to the testing required under paragraph (C)(2)(a) of this condition, a report of the compliance determination shall be submitted to the LLCHD within thirty (30) days after completion of the test. However, if testing reveals a level in excess of the NO_X BACT limit for natural gas, a report shall be submitted within forty-eight (48) hours and shall include a plan of corrective action.

(H) Reporting Requirements. (*continued*)

(5) Subsequent to the testing required under paragraph (C)(2)(b) of this condition, a report of fuel oil usage and the water-to-fuel ratio recorded at base load to demonstrate compliance with the NO_X BACT limit for #2 fuel oil established in paragraph (B)(3) of this condition shall be submitted as part of the semi-annual report for this facility no later than thirty (30) days after the semi-annual reporting period in which the monitoring is performed. If a water-to-fuel ratio is recorded that indicates NO_X emissions are not in compliance with the NO_X BACT limit, a report shall be submitted within forty-eight (48) hours and shall include a plan of corrective action.

(6) The owner/operator shall report excess emissions as required under paragraph (I)(2)(f) of this condition.

(7) If Rokeby 3 is operated on fuel oil that does not comply with paragraph (A)(1) of this condition, or exceeds the emission limits set forth under paragraph (B)(3) of this condition, the owner/operator shall report such excess emissions concurrent with the excess emission report required under paragraph (I)(2)(f) of this condition.

(I) New Source Performance Standard (NSPS) Requirements.

(1) `The owner/operator shall operate Rokeby 3 in accordance with the applicable requirements of 40 CFR Part 60, Subpart A (General Provisions). The applicable provisions of Subpart A included, but are not limited to, those cited in Table A-4 below (referenced by section number, section name, and paragraph only):

Table A-4 of Construction Permit No. 101D has not been included here, as the provisions contained therein have been incorporated into Table 37-F1 of this permit.

(2) The owner/operator shall operate Rokeby 3 in accordance with the applicable requirements of 40 CFR Part 60, Subpart GG (Standards of Performance for Stationary Gas Turbines). The provisions cited in Table A-5 below (referenced by section number, section name, and paragraph only) apply to Emission Unit 3. The owner/operator shall consult paragraphs (a) through (g) below for the specific requirements of Subpart GG as applicable to Rokeby 3.

Table A-5 of Construction Permit No. 101D has not been included here, as the provisions contained therein have been incorporated into Table 37-F2 of this permit.

(a) In accordance with §60.332 paragraph (a)(1), the owner/operator shall limit the emissions of NO_X to no more than 87 ppmv at 15% O_2, dry basis.

(b) In accordance with §60.333 paragraph (a), the owner/operator shall limit the emissions of SO_2 to no more than 0.015% by volume at 15% O_2, dry basis. Compliance with this limit shall be demonstrated by combusting only fuel oil that complies with paragraph (A)(1) of this condition.

(c) In accordance with §60.333 paragraph (b), the owner/operator shall burn only fuel oil that contains no more than 0.8% total sulfur, by weight.

(d) In accordance with §60.334 paragraph (a), the owner/operator shall install and operate a continuous monitoring system (CMS) to monitor and record the fuel consumption and the ratio of water to fuel for the water injection system. The owner/operator shall have the CMS installed and operational prior to conducting performance tests under §60.8. The CMS shall be in continuous operation when in use and shall meet minimum frequency of operation requirements. The CMS shall be installed such that representative measurements of process parameters from Rokeby 3 are obtained.

(e) In accordance with §60.334 paragraph (b), the owner/operator shall monitor the sulfur content and nitrogen content of the fuels that are burned. The frequency of monitoring shall be according to §60.334(b)(1) and (2), and in accordance with the custom fuel monitoring schedule approved by Region VII EPA and stipulated in a letter dated January 19, 1999.

(f) In accordance with §60.334 paragraphs (j)(1)-(3), the owner/operator shall submit reports of excess emissions and monitor down time in accordance with the requirements set forth under 40 CFR Part 60, Subpart A §60.7 paragraph (c).

(I)	New Source Performance Standard (NSPS) Requirements. (*continued*) (g) In accordance with §60.335 paragraphs (a), (b), and (c), the owner/operator shall conduct the performance tests required in 40 CFR Part 60, Subpart A §60.8 using the test methods and procedures provided for under §60.335.
(J)	Acid Rain Requirements. (1) The owner/operator shall operate Rokeby 3 in compliance with the applicable requirements of the acid rain regulations set forth in 40 CFR Parts 72, 73, 75, 77, and 78. The provisions cited in Tables A-6 through A-10 below (referenced by section number, section name, and paragraph only) apply to Rokeby 3: **Tables A-6 through A-10 of Construction Permit No. 101D have not been included here, as the provisions contained therein have been incorporated into Table 37-G1 through Table 37-G5 of this permit.**
(K)	Other Requirements. (1) No modifications to the turbine or any associated equipment shall be made without the written approval of the permit grantor. Modifications (as described in 40 CFR Part 60 Subpart A, §60.14) to the turbine may be subject to the NSPS (40 CFR Part 60) Subpart GG. Any modification of the operational and/or construction documents that were the basis of this permit, which may affect the rate of any air pollutant emission, actual emissions, and/or associated impacts predicted by atmospheric dispersion modeling, must have prior approval from the LLCHD. The source shall provide all necessary information to validate the modification, including, but not limited to, additional engineering, modeling, and ambient air quality studies. (2) In the event the owner/operator requires an increase in hours of operation or a change in the configuration of the turbine to a combined cycle unit, the owner/operator shall submit a new permit application and BACT analysis, and shall obtain a new permit prior to increasing the hours of operation or to commencing construction. (3) The owner/operator shall maintain compliance with requirements set forth in 40 CFR Part 60, Subpart A §60.11 paragraphs (a) and (d), except as may be provided for in §60.8 paragraph (b). (4) Any control or monitoring equipment that may be necessary for compliance with the LLCAPCPRS or any similar requirements of the Federal EPA shall be installed within the time period or by the date specified in the applicable rule or regulation. (5) The owner/operator shall comply with the startup, shutdown, and malfunction provisions referenced in Condition XXIII of this permit. Malfunctions in the combustion turbine and water injection system that have resulted in, or may have resulted in emissions in excess of applicable standards shall be reported to the Department within the 48-hour time period provided in Article 2, Section 35, paragraph (E).

Attachment G

Requirements of Construction Permit No. 184

The following conditions set forth under Construction Permit No. 184, effective September 21, 2016, apply to the following emission unit(s):

- EU 6-1 (Fire Pump Engine – Diesel)

I. The owner/operator shall maintain compliance with all applicable regulations and requirements set forth in the Lincoln-Lancaster County Air Pollution Control Program Regulations and Standards (LLCAPCPRS), the Lincoln Municipal Code (LMC), as well as any applicable federal regulations and standards.

II. The unit(s) covered by this permit shall be operated in accordance with the following conditions:
- (A) Each engine must be equipped with a non-resettable hour meter.
- (B) The owner/operator must limit operation of each unit for maintenance and readiness testing to no more than one hundred (100) hours per year, unless additional hours of operation for maintenance and readiness testing are recommended in the manufacturer specifications.
- (C) The owner/operator must limit total hours of operation of each unit to no more than five hundred (500) hours per year, which shall include operation for emergency purposes, operation for maintenance and readiness testing, and the hours of operation for any purpose other than emergency use or maintenance and readiness testing.
- (D) In accordance with the requirements for 40 CFR Part 60 Subpart IIII (NSPS for Stationary Compression Ignition Internal Combustion Engines, or 'CI ICE'), the owner/operator shall operate CI ICE constructed/reconstructed/modified after July 11, 2005 using fuel oil that meets the following requirements:
  - (1) The fuel oil must contain no more than fifteen parts per million (15 ppm) sulfur, by weight; and
  - (2) The fuel must meet one of the following:
    - (a) Minimum cetane index of forty (40); or
    - (b) Maximum aromatic content of thirty-five percent (35%), by volume.

III. The owner/operator shall maintain records in accordance with the following requirements. These records shall be made available for Department review.
- (A) If the manufacturer specifications for any unit state that the engine should be operated more than one hundred (100) hours per year for maintenance and readiness testing, the owner/operator shall maintain a copy of the manufacturer specifications.
- (B) The owner/operator shall maintain the following records:
  - (1) Total hours of operation each calendar year.
  - (2) Hours of operation for emergency purposes each calendar year.
  - (3) When operated for emergency purposes, the owner/operator must record the time of operation of the engine and the reason the engine was in operation during that time.
  - (4) Hours of operation for maintenance and readiness testing each calendar year.
  - (5) Hours of operation during each calendar year for any purpose other than emergency use or maintenance and readiness testing.
- (C) Copies of fuel supplier certification adequate to demonstrate compliance with the requirements set forth under Condition II(D) of this permit.

IV. In the event that any engine(s) should no longer qualify for this permit because it no longer meets the requirements set forth in this permit, the owner/operator shall submit a 'full' construction permit application to the LLCHD within thirty (30) days of the finding or declaration and shall obtain a construction permit from the Department.

V. The owner/operator of an emergency engine whose hours of operation exceed the limit set forth in Condition II(C) shall report this event to the LLCHD no later than thirty (30) days after the month in which the limit was exceeded.

VI. The owner/operator of an emergency engine manufactured after April 1, 2006, whose hours of operation for the purposes of maintenance and readiness testing exceed one hundred (100) hours per year, shall report this event to the LLCHD no later than thirty (30) days after the month in which the limit was exceeded.

VII. Owners/operators of emergency engines who operate these units in non-compliance with the requirements of LLCAPCPRS Article 2, Section 17, paragraph (O) will be deemed in violation of these requirements and shall be subject to enforcement action as provided for in Article 1 of the LLCAPCPRS.

VIII. The owner/operator shall comply with all applicable provisions set forth in 40 CFR Part 60, Subpart A (NSPS General Provisions) as they apply to any emergency engine unit(s) subject to the provisions 40 CFR Part 60, Subparts IIII and/or JJJJ.

IX. The owner/operator shall maintain compliance with the applicable provisions (if any) of 40 CFR Part 60, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (CI ICE)). The provisions cited in Table A below (referenced by section number, section name, and paragraph only) apply to any unit that meets the applicability criteria for an affected source in 40 CFR Part 60, Subpart IIII §60.4200. The owner/operator shall be responsible for identifying affected sources, as well as the specifically-applicable provisions for each affected source.

Table A of Construction Permit No. 184 has not been included here, as the provisions of Subpart IIII that are specifically applicable to the 'Fire Pump Engine' have been incorporated into Table 38-E2 of this operating permit.

X. The owner/operator shall maintain compliance with the applicable provisions (if any) of 40 CFR Part 60, Subpart JJJJ (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (SI ICE)). The provisions cited in Table B below (referenced by section number, section name, and paragraph only) apply to any unit that meets the applicability criteria for an affected source in 40 CFR Part 60, Subpart IIII §60.4230. The owner/operator shall be responsible for identifying affected sources, as well as the specifically-applicable provisions for each affected source.

Table B of Construction Permit No. 184 has not been included here, as the provisions contained therein apply only to 'spark ignition' engines.

XI. The owner/operator shall maintain compliance with the applicable provisions of 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). The provisions cited in Table C below (referenced by section number, section name, and paragraph only) apply to any unit that meets the definition of 'emergency stationary RICE' in 40 CFR Part 63, Subpart ZZZZ §63.6675.

Table C of Construction Permit No. 184 has not been included here, as the provisions of Subpart ZZZZ that are specifically applicable to the 'Fire Pump Engine' have been incorporated into XXXVIII(F) of this operating permit.

Attachment H

Requirements of LES Rokeby Station Phase II Acid Rain Permit

The conditions set forth under the Phase II Acid Rain Permit for LES Rokeby Station, effective August ##, 2025, apply to the following emission unit(s):

- EU 2-1 (882.0 MMBtu/hr Combustion Turbine – Fuel Oil Firing)
- EU 2-2 (882.0 MMBtu/hr Combustion Turbine – Natural Gas Firing)
- EU 3-1 (1037.0 MMBtu/hr Combustion Turbine – Fuel Oil Firing)
- EU 3-2 (1037.0 MMBtu/hr Combustion Turbine – Natural Gas Firing)

The requirements of this Acid Rain permit shall remain effective until such time that the Acid Rain permit is renewed by the Department.

Permitting Note: The pages of this attachment (starting on the following page) are reproductions of the original Phase II Acid Rain Permit for the LES Rokeby Generating Station. For a copy of the original documents, contact the Lincoln-Lancaster County Health Department (LLCHD) Air Quality Section at (402) 441-8040.

This space left blank intentionally. The Phase II Acid Rain Permit for LES Rokeby Generating Station was publicly noticed simultaneously with this Class I Operating Permit. Upon issuance, a copy of the signed Acid Rain Permit will be included in this attachment.

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