

**Iowa Department of Natural Resources
Title V Operating Permit**

Name of Permitted Facility: IPL - Prairie Creek Generating Station
Facility Location: 3300 C Street SW, Cedar Rapids, IA 52404

Air Quality Operating Permit Number: 99-TV-010R2-M001
Expiration Date: February 19, 2024
Permit Renewal Application Deadline: August 19, 2023

EIQ Number: 92-9050
Facility File Number: 57-01-042

Responsible Official

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This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources



Lori Hanson, Supervisor of Air Operating Permits Section

05/28/19

Date

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Abbreviations

AC	activated carbon
ACO	administrative consent order
acfm	actual cubic feet per minute
ATI	authorization to install
CaBr ₂	calcium bromide
CO ₂	carbon dioxide
CFR	Code of Federal Regulation
CE	control equipment
CEMS	continuous emission monitoring system
CSAPR	Cross-State Air Pollution Rule
DNR	Department of Natural Resources
°F	degrees Fahrenheit
ESP	electrostatic precipitator
EIQ	emissions inventory questionnaire
EP	emission point
EU	emission unit
FGR	flue gas recirculation
gr./dscf	grains per dry standard cubic foot
H	Horizontal discharge
IAC	Iowa Administrative Code
LCPH	Linn County Public Health
LCO	Linn County Ordinance
LFGC	liquid flue gas conditioning
MVAC	motor vehicle air conditioner
NSPS	new source performance standard
NAICS	North American Industry Classification System
N/A	not applicable
O ₂	oxygen
ppmv	parts per million by volume
lb./hr	pounds per hour
lb./MMBtu	pounds per million British thermal units
PTO	permit to operate
scfm	standard cubic feet per minute
SIC	Standard Industrial Classification
tph	tons per hour
tpy	tons per year
USEPA	United States Environmental Protection Agency
V	Vertical (without rain cap or with unobstructing rain cap)

Pollutants

CO	carbon monoxide
HAP	hazardous air pollutants
NO _x	nitrogen oxides
PM	particulate matter
PM ₁₀	particulate matter ten microns or less in diameter
SO ₂	sulfur dioxide
VOC	volatile organic compounds

I. Facility Description and Equipment List

Facility Name: IPL - Prairie Creek Generating Station

Permit Number: 99-TV-010R2-M001

Facility Description: Fossil Fuel Electric Power Generation (NAICS 221112; SIC 4911)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	Construction Permit Number(s)
001	301-301	Boiler 1	LCPH ATI 6838 / PTO 6561-R2 DNR PSD 97-A-998-P5
	301-302	Boiler 2	
003	302-303	Unit 3	LCPH ATI 6551 / PTO 6512-R2 DNR PSD 08-A-181-P2
015	303-304	Unit 4	LCPH ATI 6552 / PTO 6513-R2
100	503-100	Boiler 3 Coal Storage Bunker	LCPH ATI 6308 / PTO 6314
	504-100	Boiler 4 Coal Storage Bunker	
	100-100B, C & D	Coal Belt Dust Handling Pick Ups for Bunkers 3 & 4	
104	501-100	Boiler 1 Coal Storage Bunker	LCPH ATI 6309 / PTO 6315
	502-100	Boiler 2 Coal Storage Bunker	
	100-100E	Coal Belt Dust Handling Pick Ups for Bunkers 1 & 2	
120	404-405	Boiler 3 Fly Ash Transfer	LCPH ATI 637 / PTO 683
	405-406	Boiler 4 Fly Ash Transfer	
121	522-521	Boilers 1 & 2 Fly Ash Transfer System	LCPH ATI 6906 / PTO 6843
	523-521	Boilers 1, 2 & 3 Bottom Ash Transfer System	
122	524-521	Boilers 1 & 2 Fly Ash Silo	LCPH ATI 6907 / PTO 6644
123	525-521	Boilers 1, 2 & 3 Bottom Ash Silo	LCPH ATI 6881 / PTO 6630
331	331-331	Emergency Generator	LCPH ATI 5718 / PTO 5543
500	500	Boiler 5	LCPH ATI 3696 / PTO 3957 DNR PSD 97-A-999-S1
600	600	Boiler 6	LCPH ATI 6379 / PTO 6421
601	601	AC Silo	LCPH ATI 6553 / PTO 6514
110	110-110	Reclaim Hopper	Fugitive (Subject to NSPS Y)
401	401-401	Coal Unloading	
402	402-402	Coal Crushing House	
403	403-403	Coal Load Out	
120a	406-407	Ash Loadout	
121a	521-521	Ash Loadout	Fugitive
400	102-102	Coal Stacker	
	400-400	Open Coal Storage Pile	
501	501-501	AGPAVE Production	

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
91-416	#4 Hydrogen Purge Vent B-22
90-415	# 4 Hydrogen Seal Oil Vent B-22
89-414	#4 Vapor Extractor from Seal Oil
85-412	#4 Main Oil Vapor Extractor
83-411	Water Heater
82-413	Water Heater
73-410	#3 Main Oil Tank Vapor Extractor
66-409	#2 Battery Room Vent B-29
342-453	Maintenance Welding Activities
341-452	#1 Boiler Natural Gas Vent
340-451	Jet Spray Washer Vent B-19
338-450	Natural Gas Bleed Off Vent
335-449	B-13 Decarbonator Tank Vent
333-461	Natural Gas Vent #4 Boiler B-20
332-448	Natural Gas Vent #4 Boiler B-20
325-444	Natural Gas Safety Vent B-36
324-443	Natural Gas Safety Vent
323-442	Natural Gas Safety Vent
322-441	Natural Gas Safety Vent B-36
265-440	Gas Heater (2) Vent B-1
702-702	Boiler #6 Gas Vent
239-437	Gas Heater Vent B-8
237-436	Caustic Tank Vent
235-435	Gas Furnace Vent
230-432	Water Treatment Room Ventilation B-19
700-700	Ecostone Pile
189-429	Natural Gas Vent #3 B-13
169-428	Natural Gas Vent #4 Boiler Gas Manifold B-20
159-427	Natural Gas Vent #4 Boiler Gas Manifold B-22
128-426	#3 Natural Gas Vent B-23
127-425	#2 Boiler Main Line Natural Gas Vent B-33
124-424	Gas Heater Vent B-38
123-123	Gas Heater Vent B-37
117-420	Gas Heater Vent B-37
116-419	Gas Heater Vent B-37
115-418	Gas Heater Vent B-37
400-400	Bottom Ash Pile (2 acres)
701-701	Turbine Generator 1A Lube Oil Tank
120-120	New Battery Room
120-121	#4 Sootblower Pressure Relief 4PSV-55-01
102-103	Coal Scale Loading Chute
401-401	Hypochlorite Tank
402-402	Sodium Hypochlorite – River Intake
403-403	Sodium Bromide Tank – River Intake
404-404	Sodium Bisulfite Tank – Water Treatment
405-405	Caustic Tank – Water Treatment
406-406	Sulfuric Acid Tank – Water Treatment
407-407	500 gallon Unleaded Gasoline Tank
408-408	500 gallon #2 Fuel Oil Tank
409-409	1000 gallon #2 Fuel Oil Tank

II. Plant-Wide Conditions

Facility Name: IPL - Prairie Creek Generating Station

Permit Number: 99-TV-010R2-M001

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

Permit Duration

The term of this permit is: Five years

Commencing on: February 20, 2019

Ending on: February, 2024

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

Emission Limits

Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:

Opacity (visible emissions): 20 % opacity

Authority for Requirement: LCO Sec. 10-60(a)

Sulfur Dioxide (SO₂): 500 parts per million by volume

Authority for Requirement: 567 IAC 23.3(3)"e"

LCO Sec. 10-65(a)(2)

Particulate Matter:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed on or after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).

Authority for Requirement: 567 IAC 23.3(2)"a"

Particulate Matter:

No person shall permit, cause, suffer or allow the emission of particulate matter into the atmosphere in any one hour from any emission point from any process equipment at a rate in excess of that specified in Table I for the process weight rate allocated to such emission point. The emission standards in LCO Sec. 10-62(a)(1) shall apply and those specified in LCO Sec.'s 10-61, 10-62 and Table I shall not apply to each process of the types listed in those sections, with the following exception: whenever the compliance status, history of operations, ambient air quality in the vicinity, or the type of control equipment utilized, would warrant maximum control, the Air Pollution Control Officer may enforce 0.1 grain per standard cubic foot of exhaust gas, or Table I of this section, whichever would result in the lowest allowable emission rate.

Authority for Requirement: LCO Sec. 10-62(a)

Fugitive Dust:

Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not be limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.
6. Reducing the speed of vehicles traveling over on-property surfaces as necessary to minimize the generation of airborne dusts.

Authority for Requirement: 567 IAC 23.3(2)"c"
LCO Sec. 10-66

Regulatory Authority

This facility is located in Linn County, Iowa. Linn County Public Health Department, under agreement with the Iowa Department of Natural Resources (DNR), is the primary regulatory agency in Linn County. This Title V permit is issued by the Iowa Department of Natural Resources, however, required contacts and information submittals referred to in this permit as required by "the Department" should continue to be directed to the Linn County Public Health Department office. This will include such items as stack test notification, stack test results submittal, oral and written excess emission reports, and reports and records required in the Linn County construction permits. Information specifically required by the Title V permit such as the annual EIQ and fees, annual compliance certification, semi-annual monitoring report and any Title V forms submitted for updates, modifications, renewals, etc. must be submitted to the Iowa DNR.

Authority for Requirement: 567 IAC 22.108

40 CFR 60 Subpart Db Requirements

This facility is subject to Standards of Performance for Industrial, Commercial, Institutional Steam Generating Units. Affected units at the facility are EU500 (Boiler 5) and EU600 (Boiler 6). Applicable Subpart Dc requirements are incorporated into the Emission Point Specific Conditions Section.

Authority for Requirement: 40 CFR Part 60 Subpart Db
567 IAC 23.1(2)"ccc"
LCO Sec. 10-62(b)(55)

40 CFR 60 Subpart Y Requirements

This facility is subject to Standards of Performance for Coal Preparation Plants. Affected units at the facility are EU503-100, EU504-100, EU100-100B, C, and D (Boilers 3 & 4 Coal Bunkers), EU501-100, EU502-100, EU100-100E (Boilers 1 & 2 Coal Bunkers), EU110-110 (Reclaim Hopper), EU401-401 (Coal Unloading), EU402-402 (Coal Crushing House), and EU403-403 (Coal Load Out).

Authority for Requirement: 40 CFR Part 60 Subpart Y
567 IAC 23.1(2)"v"
LCO Sec. 10-62(b)(22)

40 CFR 60 Subpart IIII Requirements

This facility is subject to Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. Affected unit at the facility is EU331-331 (Emergency Generator).

Authority for Requirement: 40 CFR Part 60 Subpart IIII
567 IAC 23.1(2)"yyy"
LCO Sec. 10-62(b)(77)

40 CFR 63 Subpart ZZZZ Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. Affected unit at the facility is EU331-331 (Emergency Generator).

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"
LCO Sec. 10-62(d)(104)

40 CFR 63 Subpart DDDDD Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters. Affected units at the facility are EU301-301 (Boiler 1), EU301-302 (Boiler 2), EU500 (Boiler 5) and EU600 (Boiler 6).

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

40 CFR 63 Subpart UUUUU Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants from Coal and Oil-fired Electric Utility Steam Generating units (EGU-MATS). The affected unit at the facility is EU302-303 (Boiler 3).

Authority for Requirement: 40 CFR Part 63 Subpart UUUUU

III. Emission Point-Specific Conditions

Facility Name: IPL - Prairie Creek Generating Station

Permit Number: 98-TV-010R2-M001

Emission Point ID Number: 001

Boilers 1 and 2 Table 1

EP	EU	EU Description	Fuel	Rated Capacity
1	301-301	Boiler 1, Spreader Stoker	Coal	304 MMBtu/hr
			Fuel Oil	1.75 1000 gal/hr
			Natural Gas	0.240 MMCF/hr
	301-302	Boiler 2, Spreader Stoker	Coal	304 MMBtu/hr
			Fuel Oil	2.17 1000 gal/hr
			Natural Gas	0.298 MMCF/hr

Boilers 1 and 2 Table 2

EP	EU	CE ID	CE Description	CEMS
1	301-301	102	Dry Electrostatic Precipitator	ME205 – Opacity
		102A	Calcium Bromide Injection	ME206 – CO
	301-302	202	Dry Electrostatic Precipitator	ME207 – PM
		202A	Calcium Bromide Injection	ME208 – SO ₂
				ME209 - CO ₂
				ME210 – Flow

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Boilers 1 and 2 Specific Consent Decree Emission Limits¹

The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The following emission limits were established by the Consent Decree [*United States of America and The State of Iowa, and The County of Linn, Iowa and Sierra Club v. Interstate Power and Light Company*, Civil Action No.: C15-0061; United States District Court for the Northern District of Iowa (September 2, 2015)] and shall not be exceeded:

Pollutant	3-hr Average	30-day Rolling Average ^{2,3}	12-month Rolling Average ⁴
Filterable Particulate Matter (PM) – Federal	NA	0.030 lb/MMBTU ⁵	NA
Sulfur Dioxide (SO ₂)	NA	NA	0.900 lb/MMBTU ⁶
Nitrogen Oxides (NO _x)	0.600 lb/MMBTU ^{7,8}	NA	NA

¹ With the exception of NO_x, compliance with the emission limits listed in Consent Decree Emission Limits table shall be demonstrated through the use of Continuous Emission Monitoring Systems (CEMS). Please see Conditions "Continuous Monitoring Systems" and "System-wide Consent Decree Requirements" of this permit for the monitoring procedures to be used for each individual pollutant.

² As defined by Consent Decree Paragraph 6, the 30-day rolling average emission rate shall be determined by calculating an arithmetic average of all hourly emission rates in lb/MMBTU for the current Unit Operating Day and all hourly emission rates in lb/MMBTU for the previous 29 Unit Operating Days. A new 30-day rolling average emission rate shall be calculated for each new Unit Operating Day. Each 30-day rolling average emission rate shall include all emissions that occur during all periods within any Unit Operating Day, including emissions from Startup, Shutdown, and Malfunction (SSM).

³ As defined by Consent Decree Paragraph 75, a Unit Operating Day is any day on which the boiler fires a fossil fuel.

- ⁴ As defined by Consent Decree Paragraph 5, the 12-month rolling average emission rate shall be determined by calculating an average of all hourly emission rates in lb/MMBTU for the current month and all hourly emission rates in lb/MMBTU from the previous twelve (12) Unit Operating Months. A new 12-month rolling average emission rate shall be calculated for each new complete month in accordance with the provisions of the Consent Decree. Each 12-month rolling average emission rate shall include all emissions that occur during all periods of operating, including SSM. For purposes of calculating a 12-month rolling average emission rate, a Unit Operating Month means any month during which the boiler fires fossil fuel.
- ⁵ As required by Consent Decree Paragraph 145, the emission limit is in effect until Boiler 1 (EU 301-301) and Boiler 2 (EU 301-302) are either "Retired" or "Refueled" within their meanings in the Consent Decree which are:
- Retire: As defined in Consent Decree Paragraph 62, means to permanently shut down a unit such that it cannot physically or legally burn a fossil fuel and to comply with applicable state and federal requirements for permanently ceasing operation of the unit as a fossil fuel-fired electric generating unit, including removing the unit from Iowa's air emission inventory and amending all applicable permits so as to reflect the permanent shutdown status of the unit.
 - Refuel: As defined in Consent Decree Paragraph 59, means that a unit is "*Refueled to Natural Gas*" which according to Consent Decree Paragraph 60 means the modification of a unit such that the modified unit generates electricity solely through the combustion of natural gas.
- Because Boiler 1 (EU 301-301) and Boiler 2 (EU 301-302) exhaust to a common stack, the emission rate calculation for the two (2) boilers shall be measured and calculated for the two (2) boilers together as if they were a single boiler (*e.g.*, the emission rate calculation will be based on the total filterable PM emissions and heat input for the two (2) boilers together measure at the stack). A violation of any such 30-day rolling average emission rate shall be considered to be two (2) violations, unless the owner or operator establishes that the violation was due solely to the mal-performance of one (1) of the two (2) boilers.
- ⁶ Established per Paragraph 121 of the Consent Decree and is in effect until Boiler 1 (EU 301-301) and Boiler 2 (EU 301-302) are either Retired or Refueled within their meanings in the Consent Decree. Because Boiler 1 (EU 301-301) and Boiler 2 (EU 301-302) exhaust to a common stack, the emission rate calculation for the two (2) boilers shall be measured and calculated for the two (2) boilers together as if they were a single boiler (*e.g.*, the emission rate calculation will be based on the total SO₂ emissions and heat input for the two (2) boilers together measure at the stack). A violation of any such 12-month rolling average emission rate shall be considered to be two (2) violations, unless the owner or operator establishes that the violation was due solely to the mal-performance of one (1) of the two (2) boilers.
- ⁷ As required by Consent Decree Paragraph 97, the emission limit is in effect until Boiler 1 (EU 301-301) is either Retired or Refueled within their meanings in the Consent Decree. Because Boiler 1 (EU 301-301) and Boiler 2 (EU 301-302) exhaust to a common stack, the emission rate calculation for the two (2) boilers shall be measured and calculated for the two (2) boilers together as if they were a single boiler (*e.g.*, the emission rate calculation will be based on the total NO_x emissions and heat input for the two (2) boilers together measure at the stack).
- ⁸ As required by Consent Decree Paragraph 98, the emission limit is in effect until Boiler 2 (EU 301-302) is either Retired or Refueled within their meanings in the Consent Decree. Because Boiler 1 (EU 301-301) and Boiler 2 (EU 301-302) exhaust to a common stack, the emission rate calculation for the two (2) boilers shall be measured and calculated for the two (2) boilers together as if they were a single boiler (*e.g.*, the emission rate calculation will be based on the total NO_x emissions and heat input for the two (2) boilers together measure at the stack).

Authority for Requirement: DNR PSD Permit 97-A-998-P5; LCPH ATI 6838 / PTO 6561-R2

Consent Decree Annual Tonnage Limits for Prairie Creek

The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The Consent Decree established combined total annual tonnage limitations for Boiler 1 (EU 301-301), Boiler 2 (EU 301-302), Unit 3 (EU 302-303), and Unit 4 (EU 303-304). The following limits shall not be exceeded:

Pollutant	Calendar Year	tons/yr ¹	Consent Decree Paragraph
Sulfur Dioxide (SO ₂)	2016-2018	5,500	Paragraph 125
	2019-2020	3,500	
	2021-2025	3,000	
	2026-∞ ²	100	
Nitrogen Oxides (NO _x)	2015-2018	3,250	Paragraph 101
	2019-2025	2,650	
	2026-∞ ³	1,500	

¹ The tonnage limitation shall not be exceeded during each calendar year (January 1 – December 31).

² The tonnage limitation applies calendar year 2026 and continuing each calendar year thereafter.

³ The tonnage limitation applies calendar year 2026 and continuing each calendar year thereafter.

Authority for Requirement: DNR PSD Permit 97-A-998-P5; LCPH ATI 6838 / PTO 6561-R2

Other Emission Limits

The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The following emission limits shall not be exceeded:

Pollutant	lb/hr ¹	tons/yr ²	Other Limits	Reference/Basis
Total Particulate Matter (PM) – State	40 ⁸	NA	0.16 lb/MMBTU ³	NAAQS Requested Limit
PM ₁₀	40 ⁸	NA	NA	NAAQS
Opacity	NA	NA	20% ^{4,5}	LCO Sec. 10-60(a)
			40% ^{4,5}	567 IAC 23.3(2)"d"
Sulfur Dioxide (SO ₂)	2,745 ^{8,9}	NA	5.0 lb/MMBTU ⁶	NAAQS Administrative Consent Order No. 97-AQ-20 LCO Sec. 10-65(a)(1)(a)
Nitrogen Oxides (NO _x)	235 ⁸	NA	NA	NAAQS
Carbon Monoxide (CO)	NA	NA	0.3 lb/MMBTU ⁷	NAAQS

- ¹ The emission limit is expressed as the average of three (3) runs.
- ² The emission limit is based on a twelve (12) month rolling total.
- ³ Standard is expressed as the average of three (3) stack test runs.
- ⁴ The emission limit is based on a six (6) minute average.
- ⁵ An exceedance of the indicator opacity of 20% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).
- ⁶ IPL shall limit the sulfur content of the fuels burned in EU301-301 and EU301-302, pursuant to Administrative Consent Order 97-AQ-20, so as to limit emissions from EU301-301 and EU301-302 to 5.0 lbs SO₂/MMBTu of heat input, maximum two (2) hour average.
- ⁷ Standard is a 30-day rolling average. The equivalent hourly emission rate of 164.7 lb/hr was used in facility-wide PSD modeling for Project Number 14-337 to demonstrate no exceedance of NAAQS.
- ⁸ Emission limits were established in Project Number 97-066 to demonstrate no exceedances of the NAAQS or of the PSD increment.
- ⁹ The emission limit is based on a thirty (30) day rolling average.

Authority for Requirement: DNR PSD Permit 97-A-998-P5; LCPH ATI 6838 / PTO 6561-R2

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Federal Standards

A. National Emission Standards for Hazardous Air Pollutants (NESHAP):

The following subparts apply to the emission unit(s) (EUs 301-301 and 301-302) in this permit:

These emission units are subject to the following federal regulation: *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters* [40 CFR Part 63, Subpart DDDDD].

Authority for Requirement: DNR PSD Permit 97-A-998-P4; LCPH ATI 6838 / PTO 6561-R1

Operating Requirements with Associated Monitoring and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The heat input to Boiler 1 (EU301-301) shall not exceed 245 MMBtu/hr based on a 30-day rolling average. The owner or operator shall demonstrate compliance with this requirement by the following:
 - (1) Maintain daily records of the combined heat input of Boiler 1 (E301-301) and Boiler 2 (EU301-302) via CEMS and assigning a percentage of the total heat input by steam load to each boiler.
 - (2) Calculate and record 30-day rolling averages of Boiler 1 (EU301-301) heat input on a daily basis.

- B. When Number 1 or Number 2 fuel oil is burned, the sulfur content of the fuel oil shall not exceed 0.5% by weight. The owner or operator shall retain receipts of each fuel oil shipment which indicate the sulfur content.
- C. The control equipment, (CE102 and CE202), associated with Boiler 1 (EU301-301) and Boiler 2 (EU301-302) shall be inspected and maintained according to the manufacturer's specifications or best engineering practice. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of control equipment.
- D. The owner or operator shall collect and maintain coal supplier analysis documentation, including collection and preparation of samples to follow latest applicable standards published by the American Society of Testing and Materials (ASTM).
- E. As required by Consent Decree Paragraph 122, the owner or operator shall burn only Powder River Basin (PRB) or equivalent fuel resulting in less than 1.00 lb/MMBtu SO₂.
- F. As required by Consent Decree Paragraph 88, beginning in calendar year 2021 and continuing until Boiler 1 (EU 301-301) and Boiler 2 (EU 301-302) are retired or refueled, the owner or operator shall only operate Boiler 1 (EU 301-301) and/or Boiler 2 (EU 301-302) during times when the boilers are required to serve steam supply needs pursuant to steam supply contracts in effect as of December 31, 2013. The owner or operator may cogenerate electricity during such times, but the boilers and turbines will not be dispatched to meet electricity demand unless the boilers and turbines are also required to meet steam supply needs pursuant to a steam supply contract in effect as of December 31, 2013. The terms "retire" and "refuel" are defined in the Consent Decree as:
- (1) Retire: Per paragraph 62 of the Consent Decree means to permanently shut down a unit such that the unit cannot physically or legally burn fossil fuel and to comply with applicable state and federal requirements for permanently ceasing operation of the unit as a fossil-fuel fired electric generating unit, including removing the unit from Iowa's air emissions inventory, and amending all applicable permits so as to reflect the permanent shutdown status of each unit.
 - (2) Refuel: Per Paragraph 59 of the Consent Decree means that a unit is "*Refueled to Natural Gas*" which according to Consent Decree Paragraph 60 means the modification of a unit such that the modified unit generates electricity solely through the combustion of natural gas.
- G. As required by Consent Decree Paragraph 89, the owner or operator shall either "Retire" or "Refuel" Boiler 1 (EU301-301) and Boiler 2 (EU301-302) by December 31, 2025.
- H. As required by Consent Decree Paragraphs 137 and 138, the owner or operator shall:
- (1) Continuously operate each PM control device to maximize emission reductions at all times when the unit is in operation. Notwithstanding the foregoing sentence, the owner or operator is not required to continuously operate an electrostatic precipitator (ESP) on any unit if a baghouse is installed and operating to replace the PM control device function of the ESP on that unit.
 - (2) Except as required during correlation testing under 40 CFR Part 60, Appendix B, PS11 and QA/QC requirements under Appendix F, Procedure 2, the owner or operator shall, at a minimum, ensure that to the extent reasonably practicable:
 - (a) Where the control device is an ESP, each section of each ESP is fully energized, and where the control device is a baghouse, each compartment, except for any compartment specifically designated and designed as a spare compartment, of each baghouse is operational;
 - (b) Any failed ESP section or baghouse compartment is repaired at the next planned outage (or unplanned outage of sufficient length);
 - (c) Where applicable, the automatic control systems on each ESP are operated to maximize PM collection efficiency;
 - (d) Each opening in the casings, ductwork, and expansion joints for each ESP and each baghouse is inspected and repaired during the next planned unit outage (or unplanned outage of sufficient length) to minimize air leakage;
 - (e) Where applicable, the power levels delivered to each ESP are maintained consistent with manufacturer's specifications, the operational design of the unit and good engineering practices;

- (f) Where applicable, the plate-cleaning and discharge-electrode-cleaning systems for each ESP are optimized by varying the cycle time, cycle frequency, rapper-vibrator intensity, and number of strikes per cleaning event; and
 - (g) For each unit with one (1) or more baghouses, a bag leak detection program is developed and implemented to ensure that leaking bags are promptly replaced.
- I. As required by Consent Decree Paragraph 145, the owner or operator shall "continuously operate" ESPs (CEs 102 and 202) until Boilers #1 (EU 301-301) and #2 (EU 301-302) are either "Retired" or "Refueled" as defined by the Consent Decree. Per Paragraph 15 of the Consent Decree, the term "continuously operate" means the ESP shall be operated at all times when Boilers #1 (EU 301-301) and #2 (EU 301-302) are in operation consistent with the technological limitations, manufacturer's specifications, good engineering and maintenance practices, and good air pollution control practices for minimizing emissions [as defined in 40 CFR §60.11(d)]. Upon termination of the Consent Decree, the owner or operator shall submit a report in coordination with its Title V reporting schedule that includes the following information regarding ESPs (CEs 102 and 202):
- (1) All information necessary to determine compliance during the reporting period with:
 - (a) The obligation to optimize PM emissions controls.
- J. Upon termination of the Consent Decree, the owner or operator shall submit periodic reports as required by Title V to demonstrate compliance with all Consent Decree requirements contained within Condition 1a. (Consent Decree Emission Limits). At a minimum, the information in the reports shall include all information necessary to determine compliance during the reporting period with:
- (a) The 12-month rolling average emission rate for SO₂;
 - (b) The 30-day rolling average emission rate for PM; and
 - (c) The 3-hr average emission rate for NO_x.

Authority for Requirement: DNR PSD Permit 97-A-998-P5; LCPH ATI 6838 / PTO 6561-R2

Continuous Monitoring Systems (CMS)

The following continuous monitoring requirements apply to this emission point (EP001) and its associated emission units (EU301-301 and 301-302) and control equipment (CE102, 102A, 202, and 202A).

- A. The following monitoring systems are required:
- (1) *Opacity:*
Compliance with the opacity limit of this permit shall be continuously demonstrated by the owner or operator through the use of a continuous opacity monitoring system (COMS). Therefore, the owner or operator shall install, calibrate, maintain, and operate a COMS and record the output of the system, for measuring the opacity of emissions discharged to the atmosphere.
 - (2) *CO:*
Compliance with the carbon monoxide (CO) emission limits of this permit shall be continuously demonstrated by the owner or operator through the use of a continuous emission monitoring system (CEMS). Therefore, the owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring CO emissions discharged to the atmosphere and record the output of the system.

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 4A (PS4A) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a notice to the Department with the dates of the annual relative accuracy test audit.
 - (3) *SO₂:*
Compliance with the sulfur dioxide (SO₂) emission limits of this permit shall be continuously demonstrated by the owner or operator through the use of a continuous emission monitoring system (CEMS). Therefore, the owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring SO₂ emissions discharged to the atmosphere and record the output of the system.

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 2 (PS2) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a notice to the Department with the dates of the annual relative accuracy test audit.

This monitor shall also be used to demonstrate compliance with the non-Consent Decree emission standards in this permit.

(4) *O₂ or CO₂:*

The owner or operator shall install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring the oxygen (O₂) or carbon dioxide (CO₂) content of the flue gasses at each location where SO₂ emissions are monitored.

(5) *Flowmeter:*

The owner or operator shall install, certify, operate, and maintain a continuous flow monitoring system meeting the requirements of 40 CFR Part 60, Appendix B, Performance Specification 6 of 40 CFR 60, Appendix F, Procedure 1. In addition, the owner or operator shall record the output of the system, for measuring the volumetric flow of exhaust gases discharged to the atmosphere or

Alternatively, data from a continuous flow monitoring system certified according to the requirements of 40 CFR 75.20(c) and 40 CFR 75, Appendix A, and continuing to meet the applicable quality control and quality assurance requirements of 40 CFR 75.21 and 40 CFR 75, Appendix B, may be used.

(6) *Particulate Matter:*

As required by Consent Decree Paragraph 150, the owner or operator shall install, correlate, maintain, and operate a PM CEMS on the combined stack (EP 001). The following requirements shall apply:

(a) As required by Consent Decree Paragraph 150, each PM CEMS shall:

- (i) Comprise a continuous particle mass monitoring measuring filterable particulate matter concentration (directly or indirectly) on an hourly average basis and a diluent monitor used to convert the concentration to units expressed in lb/MMBTU.
- (ii) Be appropriate for the anticipated stack conditions and capable of measuring filterable PM concentrations on an hourly average basis and the owner or operator shall maintain an electronic database that stores the hourly average emission values (in lb/MMBTU) of all PM CEMS data for at least five (5) years.
- (iii) Operate at all times the unit it serves is operating except for periods of monitor malfunction, maintenance, or repair.

(b) As required by Consent Decree Paragraph 153, the owner or operator shall:

- (i) Use criteria set forth in 40 CFR 60, Appendix B, Performance Specification 11 (PS11) and 40 CFR 60, Appendix F, Procedure 2. The specifications of 40 CFR 60, Appendix F (QA/QC) shall apply.
- (ii) Conduct relative correlation audits no less frequently than once every three (3) calendar years or twelve (12) operating quarters, whichever comes first, or earlier if the characteristics of the PM or gas change such that the PM CEMS measurement technology is no longer valid.

(c) As required by Consent Decree Paragraph 153, the owner or operator may use the correlation method specified in 40 CFR §63.10010(i) [at the temperature specified in 40 CFR Part 60, Appendix A-3] for purposes of correlating the PM CEMS under the Consent Decree. Diluent capping (i.e., 5% CO₂) will be applied to the PM rate data for any hours where the measured CO₂ concentration is less than 5% following the procedures in 40 CFR Part 75, Appendix F, Section 3.3.4.1.

(d) As required by Consent Decree Paragraph 152, the owner or operator shall follow the Quality Assurance/Quality Control (QA/QC) protocol approved by EPA for each PM CEMS.

(e) As required by Consent Decree Paragraph 154, the owner or operator shall:

- (i) Ensure compliance with the PM CEMS installation and correlation plans submitted to and approved by EPA in accordance with Consent Decree Paragraphs 151 and 152.
- (ii) Ensure performance specification tests on the PM CEMS are conducted.
- (iii) Operate the PM CEMS in accordance with the approved plan and QA/QC protocol.

- (f) As required by Consent Decree Paragraph 148(c), the owner or operator shall conduct condensable PM testing each time a relative correlation audit is performed for the PM CEMS and stack sampling for filterable PM shall be performed pursuant to PS11. When PM stack tests are required, the owner or operator shall:
- (i) Conduct the PM stack test using EPA Method 5 (filterable portion only) or any alternate method approved by EPA under the terms of the Consent Decree.
 - (ii) Conduct the condensable PM stack test using the reference methods and procedures set for in 40 CFR 51, Appendix M, Method 202.
 - (iii) Ensure:
 - Each stack test consists of three (3) separate runs performed under representative operating conditions not including SSM.
 - The sampling time for each run shall be at least sixty (60) minutes and the volume of each run shall be at least 0.85 dry standard cubic meters (30 dry standard cubic feet).
 - The PM emission rate from the stack test results is calculated in accordance with 40 CFR §60.8(f).
 - The results of each PM stack test is submitted to the appropriate regulatory agency (i.e. the Department or Linn County).
- B. The CEMS required in Condition 6.A. for SO₂ and CO shall be operated and the data recorded during all periods of operation including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.
- C. As required by Consent Decree Paragraph 127, the following requirements apply to the SO₂ CEMS for the Consent Decree emission standards in this permit:
- (1) The owner or operator shall use SO₂ emission data obtained from a CEMS in accordance with the procedures of 40 CFR Part 75 for all thirty (30) day rolling average emission rates and all twelve (12) month rolling average emission rates.
 - (2) The SO₂ emissions data is not required to be bias adjusted and the missing data substituting procedures of 40 CFR Part 75 shall not apply.
 - (3) Diluent capping (i.e., 5% CO₂) shall be applied to the SO₂ emission rate for any hours where the measured CO₂ concentration is less than 5% following the procedures in 40 CFR Part 75, Appendix F, Section 3.3.4.1.
- D. The following data requirements shall apply to all CEMS for non-Consent Decree emission standards in this permit:
- (1) The CEMS required by this permit shall be operated and data recorded during all periods of operation of the emission unit except for CEM breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.
 - (2) The 1-hour average SO₂ and CO emission rates measured by the CEMS required by this permit shall be used to calculate compliance with the emission standards of this permit. At least 2 data points must be used to calculate each 1-hour average.
- E. If requested by the Department, the owner/operator shall coordinate the quarterly cylinder gas audits with the Department to afford the Department the opportunity to observe these audits. The relative accuracy test audits shall be coordinated with the Department.

Authority for Requirement: DNR PSD Permit 97-A-998-P5; LCPH ATI 6838 / PTO 6561-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
1	327	V	192	470	320,500	Iowa DNR PSD Permit 97-A-998-P5 LCPH ATI 6838 / PTO 6561-R2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

System-wide Consent Decree Requirements for IPL Facilities in Iowa

Refer to Appendix A, System-wide Consent Decree Requirements for IPL Facilities in Iowa.

Authority for Requirement: DNR PSD Permit 97-A-998-P5; LCPH ATI 6838 / PTO 6561-R2

Monitoring Requirements

The owner/operator of this equipment shall comply with the Monitoring requirements listed below.

Stack Testing

Refer to Appendix D, Stack Testing, for the applicable requirements.

Continuous Emissions Monitoring

Pollutant:	Opacity	Filterable PM - Federal
Continuous Emissions Monitor ID:	ME205	ME207
Operational Specifications:	40 CFR Part 60	40 CFR Part 60
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60	40 CFR Part 60
Reporting & Recordkeeping:	40 CFR Part 60	40 CFR Part 60
Authority for Requirement:	567 IAC 25.1(1) LCO 10.17(1) DNR PSD Permit 97-A-998-P5 LCPH ATI 6838 / PTO 6561-R2	DNR PSD Permit 97-A-998-P5 LCPH ATI 6838 / PTO 6561-R2

Pollutant:	SO ₂	CO
Continuous Emissions Monitor ID:	ME206	ME208
Operational Specifications:	40 CFR Part 60	40 CFR Part 60
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60	40 CFR Part 60
Reporting & Recordkeeping:	40 CFR Part 60	40 CFR Part 60
Authority for Requirement:	DNR PSD Permit 97-A-998-P5 LCPH ATI 6838 / PTO 6561-R2	DNR PSD Permit 97-A-998-P5 LCPH ATI 6838 / PTO 6561-R2

Other Parameter:	CO ₂	Flow
Continuous Emissions Monitor ID:	ME209	ME210
Operational Specifications:	40 CFR Part 60	40 CFR 60
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60	40 CFR 60
Reporting & Recordkeeping:	40 CFR Part 60	40 CFR 60
Authority for Requirement:	DNR PSD Permit 97-A-998-P5 LCPH ATI 6838 / PTO 6561-R2	DNR PSD Permit 97-A-998-P5 LCPH ATI 6838 / PTO 6561-R2

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the tests shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes No
 Facility Maintained Operation & Maintenance Plan Required? Yes No
 Compliance Assurance Monitoring (CAM) Plan Required? Yes No
 Authority for Requirement: 567 IAC 22.108(3)

Compliance Assurance Monitoring Plan Electrostatic Precipitator (CE102) for PM/PM₁₀ Control

I. Background

A. Emissions Unit

Description: Boiler 1, Spreader Stoker
 Identification: EU301-301
 Facility: IPL – Prairie Creek Generating Station

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No: LCPH ATI 6838 / PTO 6561-R2
 DNR PSD Permit 97-A-998-P5
 Emission limits: PM/PM₁₀: 40 lb/hr; 0.16 lb/MMBtu
 Opacity: 20%
 Current Monitoring Requirements: Continuous Opacity Monitoring System (COMS)
 Primary Power (kVA)

C. Control Technology Electrostatic Precipitator

II. Monitoring Approach

Indicator	Opacity of ESP exhaust (stack)	Primary Power (kVA)
Measurement Approach	COMS in ESP exhaust (stack)	Primary Power (kVA) is monitored not less than 4 (every 15 minute) data points every hour
Indicator Range	An excursion is defined as the hourly block average opacity exceeds 20% except during a period of startup, shutdown, or cleaning of control equipment.	An excursion is defined as the hourly block average of the ESP primary power is out of the ranges below: <35
Performance Criteria		
Data Representativeness	Install the COMS at a representative location in the ESP exhaust per 40 CFR 60, Appendix B, Performance Specification 1 (PS-1)	Plant computer will take primary power data not less than four data points (every 15 minutes) every hour and keep the records. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (kVA) will be calculated in 48 hours. Each data point will represent entire hour block.

Indicator	Opacity of ESP exhaust (stack)	Primary Power (kVA)
QA/QC Practices and Criteria	Install and evaluate COMS per PS-1. The continuous opacity monitor will be automatically calibrated for zero and span adjustments daily.	The voltage and amperage gauges, which are for power (kVA) monitoring, will be calibrated, maintained, and operated according to the manufacturer specifications.
Monitoring Frequency	Monitor opacity of the ESP exhaust continuously (every 10 seconds)	Plant computer will monitor primary power not less than 4 data points (every 15 minutes) per hour. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (kVA) will be calculated within 48 hours. Each data point will represent entire hour block.
Data Collection Procedures	Set up the data acquisition system (DAS) to retain all 6-minute average and hourly average opacity data.	Plant computer will monitor and record primary power not less than 4 data points (every 15 minutes) every hour and keep the record for 5 years and available upon request. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (kVA) will be calculated within 48 hours. Each data point will represent entire hour block.
Averaging Period	Use the 10-second opacity data to calculate 6-minute average. Use the 6-minute average to calculate the hourly block average opacity	Once hourly block average primary power (kVA) is out of range based on computer indication or one manual out of range point, an excursion is triggered.
Recordkeeping and Reporting (Verification of Operational Status)	Record 6-minute average and the hourly block average opacity Excursions trigger an inspection, corrective action, and a reporting requirement at annual or semiannual reports.	Plant computer will take and record primary power data not less than four data points (every 15 minute) every hour. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (kVA) will be calculated within 48 hours. Each data point will represent entire hour block. Excursions trigger an inspection, corrective action, and a reporting requirement at annual or semiannual reports.

III. Quality Improvement Plan (QIP)

A Quality Improvement Plan (QIP) will be required if an accumulation of excursions of either the opacity indicator or the power indicator exceeds 5 percent of the boiler's normal operating time for a 6-month reporting period.

Authority for Requirement: 567 IAC 22.108(3)

Compliance Assurance Monitoring Plan Electrostatic Precipitator (CE202) for PM/PM₁₀ Control

I. Background

A. Emissions Unit

Description: Boiler 2, Spreader Stoker
 Identification: EU301-302
 Facility: IPL – Prairie Creek Generating Station

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No: LCPH ATI 6838 / PTO 6561-R2
 DNR PSD Permit 97-A-998-P5
 Emission limits: PM/PM₁₀: 40 lb/hr; 0.16 lb/MMBtu
 Opacity: 20%
 Current Monitoring Requirements: Continuous Opacity Monitoring System (COMS)
 Primary Power (kVA)

C. Control Technology: Electrostatic Precipitator

II. Monitoring Approach

Indicator	Opacity of ESP exhaust (stack)	Primary Power (kVA)
Measurement Approach	COMS in ESP exhaust (stack)	Primary Power (kVA) is monitored not less than 4 (every 15 minute) data points every hour
Indicator Range	An excursion is defined as the hourly block average opacity exceeds 20% except during a period of startup, shutdown, or cleaning of control equipment.	An excursion is defined as the hourly block average of the ESP primary power is out of the ranges below: <35
Performance Criteria		
Data Representativeness	Install the COMS at a representative location in the ESP exhaust per 40 CFR 60, Appendix B, Performance Specification 1 (PS-1)	Plant computer will take primary power data not less than four data points (every 15 minutes) every hour and keep the records. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (kVA) will be calculated in 48 hours. Each data point will represent entire hour block.
QA/QC Practices and Criteria	Install and evaluate COMS per PS-1. The continuous opacity monitor will be automatically calibrated for zero and span adjustments daily.	The voltage and amperage gauges, which are for power (kVA) monitoring, will be calibrated, maintained, and operated according to the manufacturer specifications.
Monitoring Frequency	Monitor opacity of the ESP exhaust continuously (every 10 seconds)	Plant computer will monitor primary power not less than 4 data points (every 15 minutes) per hour. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (kVA) will be calculated within 48 hours. Each data point will represent entire hour block.

Indicator	Opacity of ESP exhaust (stack)	Primary Power (kVA)
Data Collection Procedures	Set up the data acquisition system (DAS) to retain all 6-minute average and hourly average opacity data.	<p>Plant computer will monitor and record primary power not less than 4 data points (every 15 minutes) every hour and keep the record for 5 years and available upon request.</p> <p>In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (kVA) will be calculated within 48 hours. Each data point will represent entire hour block.</p>
Averaging Period	Use the 10-second opacity data to calculate 6-minute average. Use the 6-minute average to calculate the hourly block average opacity	Once hourly block average primary power (kVA) is out of range based on computer indication or one manual out of range point, an excursion is triggered.
Recordkeeping and Reporting (Verification of Operational Status)	<p>Record 6-minute average and the hourly block average opacity</p> <p>Excursions trigger an inspection, corrective action, and a reporting requirement at annual or semiannual reports.</p>	<p>Plant computer will take and record primary power data not less than four data points (every 15 minute) every hour.</p> <p>In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (kVA) will be calculated within 48 hours. Each data point will represent entire hour block.</p> <p>Excursions trigger an inspection, corrective action, and a reporting requirement at annual or semiannual reports.</p>

III. Quality Improvement Plan (QIP)

A Quality Improvement Plan (QIP) will be required if an accumulation of excursions of either the opacity indicator or the power indicator exceeds 5 percent of the boiler's normal operating time for a 6-month reporting period.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 003

Unit 3 Table 1

EP	EU	EU Description	Fuel	Rated Capacity
3	302-303	Boiler 3, Dry Bottom Pulverized Coal Unit	Coal	611 MMBtu/hr
			Fuel Oil	4.4 1000 gal/hr
			Natural Gas	0.6 MMCF/hr

Unit 3 Table 2

EP	EU	CE ID	CE Description	CEMS
3	302-303	302	Dry Electrostatic Precipitator	ME301 – Opacity ME302 – SO ₂ ME303 - NO _x ME304 – PM ME305 – CO ME306 – CO ₂ ME307 – Flow
		302A	Overfire Air	
		303	Activated Carbon Injection, Calcium Bromide Injection, Liquid Flue Gas Conditioning System	

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Best Available Control Technology (BACT) Emission Limits

The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The following emission limits shall not be exceeded:

Pollutant	lb/hr ¹	tons/yr ²	Other Limits
Carbon Monoxide (CO)	152.75 ³	669	0.25 lb/MMBTU ⁴

¹ The emission limit is expressed as the average of three (3) runs.

² The emission limit is based on a twelve (12) month rolling total.

³ Emission rate used in the dispersion model to demonstrate the impacts from Project Number 08-A-181-P was less than the PSD significant impact level and therefore, did not require a full NAAQS or increment analysis.

⁴ Standard is a 30-day rolling average.

Authority for Requirement: DNR PSD Permit 08-A-181-P2; LCPH ATI 6551 / PTO 6512-R2

Unit 3 Specific Consent Decree Emission Limits¹

The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The following emission limits were established by the Consent Decree [*United States of America and The State of Iowa, and The County of Linn, Iowa and Sierra Club v. Interstate Power and Light Company*, Civil Action No.: C15-0061; United States District Court for the Northern District of Iowa (September 2, 2015)] and shall not be exceeded:

Pollutant	30-day Rolling Average ^{2,3}	12-month Rolling Average ⁴
Filterable Particulate Matter (PM) – Federal	0.030 lb/MMBTU ⁵	NA
Sulfur Dioxide (SO ₂)	NA	0.700 lb/MMBTU ⁶
Nitrogen Oxides (NO _x)	NA	0.400 lb/MMBTU ⁷

¹ Compliance with the emission limits listed in Consent Decree Emission Limits table shall be demonstrated through the use of Continuous Emission Monitoring Systems (CEMS). Please see Conditions "Continuous Monitoring Systems" and "System-wide Consent Decree Requirements" of this permit for the monitoring procedures to be used for each individual pollutant.

² As defined by Consent Decree Paragraph 6, the 30-day rolling average emission rate shall be determined by calculating an arithmetic average of all hourly emission rates in lb/MMBTU for the current Unit Operating Day and all hourly emission rates in lb/MMBTU for the previous 29 Unit Operating Days. A new 30-day rolling average emission rate shall be calculated for each new Unit Operating

Day. Each 30-day rolling average emission rate shall include all emissions that occur during all periods within any Unit Operating Day, including emissions from Startup, Shutdown, and Malfunction (SSM).

- ³ As defined by Consent Decree Paragraph 75, a Unit Operating Day is any day on which the boiler fires a fossil fuel.
- ⁴ As defined by Consent Decree Paragraph 5, the 12-month rolling average emission rate shall be determined by calculating an average of all hourly emission rates in lb/MMBTU for the current month and all hourly emission rates in lb/MMBTU from the previous twelve (12) Unit Operating Months. A new 12-month rolling average emission rate shall be calculated for each new complete month in accordance with the provisions of the Consent Decree. Each 12-month rolling average emission rate shall include all emissions that occur during all periods of operating, including SSM. For purposes of calculating a 12-month rolling average emission rate, a Unit Operating Month means any month during which the boiler fires fossil fuel.
- ⁵ As required by Consent Decree Paragraph 146, the emission limit is in effect until Unit 3 (EU 302-303) is either Retired or Refueled within their meanings in the Consent Decree which are:
 - "Retire": As defined in Consent Decree Paragraph 62, means to permanently shut down a unit such that it cannot physically or legally burn a fossil fuel and to comply with applicable state and federal requirements for permanently ceasing operation of the unit as a fossil fuel-fired electric generating unit, including removing the unit from Iowa's air emission inventory and amending all applicable permits so as to reflect the permanent shutdown status of the unit.
 - "Refuel": As defined in Consent Decree Paragraph 59, means that a unit is "Refueled to Natural Gas" which according to Consent Decree Paragraph 60 means the modification of a unit such that the modified unit generates electricity solely through the combustion of natural gas.
- ⁶ As required by Consent Decree Paragraph 123, the emission limit is in effect until Unit 3 (EU 302-303) is either Retired or Refueled within their meanings in the Consent Decree.
- ⁷ As required by Consent Decree Paragraph 99, the emission limit is in effect until Unit 3 (EU 302-303) is either Retired or Refueled within their meanings in the Consent Decree.

Authority for Requirement: DNR PSD Permit 08-A-181-P2; LCPH ATI 6551 / PTO 6512-R2

Consent Decree Annual Tonnage Limits for Prairie Creek

The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The Consent Decree established combined total annual tonnage limitations for Boiler 1 (EU 301-301), Boiler 2 (EU 301-302), Unit 3 (EU 302-303), and Unit 4 (EU 303-304). The following limits shall not be exceeded:

Pollutant	Calendar Year	tons/yr ¹	Consent Decree Paragraph
Sulfur Dioxide (SO ₂)	2016-2018	5,500	Paragraph 125
	2019-2020	3,500	
	2021-2025	3,000	
	2026-∞ ²	100	
Nitrogen Oxides (NO _x)	2015-2018	3,250	Paragraph 101
	2019-2025	2,650	
	2026-∞ ³	1,500	

¹ The emissions limit shall not be exceeded during each calendar year (January 1 – December 31).

² The emissions limit applies calendar year 2026 and continuing each calendar year thereafter.

³ The emissions limit applies calendar year 2026 and continuing each calendar year thereafter.

Authority for Requirement: DNR PSD Permit 08-A-181-P2; LCPH ATI 6551 / PTO 6512-R2

Other Emission Limits

The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The following emission limits shall not be exceeded:

Pollutant	lb/hr ¹	tons/yr ²	Other Limits	Reference/Basis
Total Particulate Matter (PM) – State	NA	NA	0.16 lb/MMBTU ³	Requested Limit
Opacity	NA	NA	20% ^{4,5}	LCO Sec. 10-60(a)
			40% ^{4,5}	567 IAC 23.3(2)"d"
Sulfur Dioxide (SO ₂)	495.9 ⁶	NA	NA	Administrative Consent Order No. 97-AQ-20

¹ The emission limit is expressed as the average of three (3) runs.

² The emission limit is based on a twelve (12) month rolling total.

- ³ Standard is expressed as the average of three (3) stack test runs.
- ⁴ The emission limit is based on a six (6) minute average.
- ⁵ An exceedance of the indicator opacity of 20% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).
- ⁶ Standard is a 24-hr rolling average and the limit was established to resolve the issue of the facility's contribution to SO₂ exceedances of the 24-hr SO₂ NAAQS in January, February, and March 1996 as outlined in Administrative Consent Order No. 97-AQ-20.

Authority for Requirement: DNR PSD Permit 08-A-181-P2; LCPH ATI 6551 / PTO 6512-R2

Cross-State Air Pollution Rule (CSAPR) (a.k.a., Transport Rule (TR))

Pollutant: Nitrogen Oxides (NO_x) Annual, Nitrogen Oxides (NO_x) Ozone Season, Sulfur Dioxide (SO₂) Group 1

Emission Limits: Nitrogen Oxides and Sulfur Dioxide Allowances

Authority for Requirement: 40 CFR Part 97 (See appendix F for requirements)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Federal Standards

A. National Emission Standards for Hazardous Air Pollutants (NESHAP):

The following subparts apply to this emission unit (EU302-303):

This emission unit is subject to the following federal regulation: *National Emission Standards for Hazardous Air Pollutants from Coal and Oil-fired Electric Utility Steam Generating Units (EGU-MATS)* [40 CFR Part 63, Subpart UUUUU].

B. Acid Rain:

The facility (plant number 57-01-042) is considered an affected source under 40 CFR 72, 73, 75, 76, 77, and 78 definitions as emission units at this source are subject to the acid rain emission reduction requirements or the acid rain emission limitations, as adopted by the Department by reference (See 567 IAC 22.120 – 567 IAC 22.148). This emission unit is subject to the SO₂ allowance allocation, NO_x emission limitations, and monitoring provisions of the federal acid rain program. See "Appendix A. System-wide Consent Decree Requirements for IPL Facilities in Iowa" for IPL's use and surrender of SO₂ and NO_x allowances requirements pursuant to the Consent Decree.

Authority for Requirement: DNR PSD Permit 08-A-181-P2; LCPH ATI 6551 / PTO 6512-R2

Operating Requirements with Associated Monitoring and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. Unit 3 (EU302-303) shall be allowed to combust coal, fuel oil, natural gas, and methane.
- B. The sulfur content of fuel oil shall not exceed 0.5 percent by weight. The owner or operator shall retain receipts of each fuel oil shipment which indicate the sulfur content.
- C. The control equipment, (CE302), associated with Unit 3 (EU302-303) shall be inspected and maintained according to the manufacturer's specifications or best engineering practice. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of control equipment.
- D. In order to demonstrate compliance with Administrative Consent Order No. 97-AQ-20, the owner or operator shall maintain hourly and 24-hour rolling average records in lb/hr of SO₂ emissions. These records shall include the data required under 40 CFR Part 75 for Continuous Emissions Monitoring.
- E. As required by Consent Decree Paragraph 99, the owner or operator shall continuously operate the Low NO_x Combustion System (CE 302A) until such time Unit 3 (EU 302-303) is either Retired or Refueled (as defined in the Consent Decree).

- F. As required by Consent Decree Paragraph 89, the owner or operator shall either "Retire" or "Refuel" Unit 3 (EU 302-303) by December 31, 2025. These terms are defined in the Consent Decree as:
- (1) Retire: Per paragraph 62 of the Consent Decree means to permanently shut down a unit such that the unit cannot physically or legally burn fossil fuel and to comply with applicable state and federal requirements for permanently ceasing operation of the unit as a fossil-fuel fired electric generating unit, including removing the unit from Iowa's air emissions inventory, and amending all applicable permits so as to reflect the permanent shutdown status of each unit.
 - (2) Refuel: Per Paragraph 59 of the Consent Decree means that a unit is "*Refueled to Natural Gas*" which according to Consent Decree Paragraph 60 means the modification of a unit such that the modified unit generates electricity solely through the combustion of natural gas.
- G. As required by Consent Decree Paragraphs 137 and 138, the owner or operator shall:
- (1) Continuously operate each PM control device to maximize emission reductions at all times when the unit is in operation. Notwithstanding the foregoing sentence, the owner or operator is not required to continuously operate an electrostatic precipitator (ESP) on any unit if a baghouse is installed and operating to replace the PM control device function of the ESP on that unit.
 - (2) Except as required during correlation testing under 40 CFR Part 60, Appendix B, PS11 and QA/QC requirements under Appendix F, Procedure 2, the owner or operator shall, at a minimum, ensure that to the extent reasonably practicable:
 - (a) Where the control device is an ESP, each section of each ESP is fully energized, and where the control device is a baghouse, each compartment, except for any compartment specifically designated and designed as a spare compartment, of each baghouse is operational;
 - (b) Any failed ESP section or baghouse compartment is repaired at the next planned outage (or unplanned outage of sufficient length);
 - (c) Where applicable, the automatic control systems on each ESP are operated to maximize PM collection efficiency;
 - (d) Each opening in the casings, ductwork, and expansion joints for each ESP and each baghouse is inspected and repaired during the next planned unit outage (or unplanned outage of sufficient length) to minimize air leakage;
 - (e) Where applicable, the power levels delivered to each ESP are maintained consistent with manufacturer's specifications, the operational design of the unit and good engineering practices;
 - (f) Where applicable, the plate-cleaning and discharge-electrode-cleaning systems for each ESP are optimized by varying the cycle time, cycle frequency, rapper-vibrator intensity, and number of strikes per cleaning event; and
 - (g) For each unit with one (1) or more baghouses, a bag leak detection program is developed and implemented to ensure that leaking bags are promptly replaced.
- H. As required by Consent Decree Paragraph 146, the owner or operator shall "continuously operate" the ESP (CE 302) until Boiler #3 (EU 302-303) is either "Retired" or "Refueled" as defined by the Consent Decree. Per Paragraph 15 of the Consent Decree, the term "continuously operate" means the ESP shall be operated at all times when Boiler #3 (EU 302-303) is in operation consistent with the technological limitations, manufacturer's specifications, good engineering and maintenance practices, and good air pollution control practices for minimizing emissions [as defined in 40 CFR §60.11(d)]. Upon termination of the Consent Decree, the owner or operator shall submit a report in coordination with its Title V reporting schedule that includes the following information regarding the ESP (CE 302):
- (1) All information necessary to determine compliance during the reporting period with:
 - (a) The obligation to optimize PM emissions controls.
- I. Upon termination of the Consent Decree, the owner or operator shall submit periodic reports as required by Title V to demonstrate compliance with all Consent Decree requirements contained within Condition 1b. (Consent Decree Emission Limits). At a minimum, the information in the reports shall include all information necessary to determine compliance during the reporting period with:
- (a) The 12-month rolling average emission rate for SO₂;
 - (b) The 30-day rolling average emission rate for PM; and
 - (c) The 12-month rolling average emission rate for NO_x.

Authority for Requirement: DNR PSD Permit 08-A-181-P2; LCPH ATI 6551 / PTO 6512-R2

Continuous Monitoring Systems (CMS)

The following continuous monitoring requirements apply to this emission point (EP003) and its associated emission unit (EU302-303) and control equipment (CE302, 302A, and CE303).

A. The following monitoring systems are required:

(1) *Opacity:*

Compliance with the opacity limit of this permit shall be continuously demonstrated by the owner or operator through the use of a continuous opacity monitoring system (COMS). Therefore, the owner or operator shall install, calibrate, maintain, and operate a COMS and record the output of the system, for measuring the opacity of emissions discharged to the atmosphere.

(2) *CO:*

Compliance with the carbon monoxide (CO) emission limits of this permit shall be continuously demonstrated by the owner or operator through the use of a continuous emission monitoring system (CEMS). Therefore, the owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring CO emissions discharged to the atmosphere and record the output of the system.

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 4A (PS4A) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a notice to the Department with the dates of the annual relative accuracy test audit.

(3) *SO₂:*

Compliance with the sulfur dioxide (SO₂) emission limits of this permit shall be continuously demonstrated by the owner or operator through the use of a continuous emission monitoring system (CEMS). Therefore, the owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring SO₂ emissions discharged to the atmosphere and record the output of the system.

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 2 (PS2) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a notice to the Department with the dates of the annual relative accuracy test audit.

This monitor shall also be used to demonstrate compliance with the non-Consent Decree emission standards in this permit.

(4) *NO_x:*

Compliance with the nitrogen oxide (NO_x) emission limits of this permit shall be continuously demonstrated by the owner or operator through the use of a continuous emission monitoring system (CEMS). Therefore, the owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring NO_x emissions discharged to the atmosphere and record the output of the system.

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 2 (PS2) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a notice to the Department with the dates of the annual relative accuracy test audit.

(5) *O₂ or CO₂:*

The owner or operator shall install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring the oxygen (O₂) or carbon dioxide (CO₂) content of the flue gasses at each location where SO₂ or NO_x emissions are monitored.

(6) *Flowmeter:*

The owner or operator shall install, certify, operate, and maintain a continuous flow monitoring system meeting the requirements of 40 CFR Part 60, Appendix B, Performance Specification 6 of 40 CFR 60,

Appendix F, Procedure 1. In addition, the owner or operator shall record the output of the system, for measuring the volumetric flow of exhaust gases discharged to the atmosphere or

Alternatively, data from a continuous flow monitoring system certified according to the requirements of 40 CFR 75.20(c) and 40 CFR 75, Appendix A, and continuing to meet the applicable quality control and quality assurance requirements of 40 CFR 75.21 and 40 CFR 75, Appendix B, may be used.

(7) *Particulate Matter:*

As required by Consent Decree Paragraph 150, the owner or operator shall install, correlate, maintain, and operate a PM CEMS on the stack (EP 003). The following requirements shall apply:

- (a) As required by Consent Decree Paragraph 150, each PM CEMS shall:
 - (i) Comprise a continuous particle mass monitoring measuring filterable particulate matter concentration (directly or indirectly) on an hourly average basis and a diluent monitor used to convert the concentration to units expressed in lb/MMBTU.
 - (ii) Be appropriate for the anticipated stack conditions and capable of measuring filterable PM concentrations on an hourly average basis and the owner or operator shall maintain an electronic database that stores the hourly average emission values (in lb/MMBTU) of all PM CEMS data for at least five (5) years.
 - (iii) Operate at all times the unit it serves is operating except for periods of monitor malfunction, maintenance, or repair.
- (b) As required by Consent Decree Paragraph 153, the owner or operator shall:
 - (i) Use criteria set forth in 40 CFR 60, Appendix B, Performance Specification 11 (PS11) and 40 CFR 60, Appendix F, Procedure 2. The specifications of 40 CFR 60, Appendix F (QA/QC) shall apply.
 - (ii) Conduct relative correlation audits no less frequently than once every three (3) calendar years or twelve (12) operating quarters, whichever comes first, or earlier if the characteristics of the PM or gas change such that the PM CEMS measurement technology is no longer valid.
- (c) As required by Consent Decree Paragraph 153, the owner or operator may use the correlation method specified in 40 CFR §63.10010(i) [at the temperature specified in 40 CFR Part 60, Appendix A-3] for purposes of correlating the PM CEMS under the Consent Decree. Diluent capping (i.e., 5% CO₂) will be applied to the PM rate data for any hours where the measured CO₂ concentration is less than 5% following the procedures in 40 CFR Part 75, Appendix F, Section 3.3.4.1.
- (d) As required by Consent Decree Paragraph 152, the owner or operator shall follow the Quality Assurance/Quality Control (QA/QC) protocol approved by EPA for each PM CEMS.
- (e) As required by Consent Decree Paragraph 154, the owner or operator shall:
 - (i) Ensure compliance with the PM CEMS installation and correlation plans submitted to and approved by EPA in accordance with Consent Decree Paragraphs 151 and 152.
 - (ii) Ensure performance specification tests on the PM CEMS are conducted.
 - (iii) Operate the PM CEMS in accordance with the approved plan and QA/QC protocol.
- (f) As required by Consent Decree Paragraph 148(c), the owner or operator shall conduct condensable PM testing each time a relative correlation audit is performed for the PM CEMS and stack sampling for filterable PM shall be performed pursuant to PS11. When PM stack tests are required, the owner or operator shall:
 - (i) Conduct the PM stack test using EPA Method 5 (filterable portion only) or any alternate method approved by EPA under the terms of the Consent Decree.
 - (ii) Conduct the condensable PM stack test using the reference methods and procedures set for in 40 CFR 51, Appendix M, Method 202.
 - (iii) Ensure:
 - Each stack test consists of three (3) separate runs performed under representative operating conditions not including SSM.
 - The sampling time for each run shall be at least sixty (60) minutes and the volume of each run shall be at least 0.85 dry standard cubic meters (30 dry standard cubic feet).
 - The PM emission rate from the stack test results is calculated in accordance with 40 CFR §60.8(f).

- The results of each PM stack test is submitted to the appropriate regulatory agency (i.e. the Department or Linn County).
- B. The CEMS required in Condition 6.A. for SO₂, NO_x, CO, and either O₂ or CO₂ shall be operated and the data recorded during all periods of operation including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.
- C. As required by Consent Decree Paragraph 127, the following requirements apply to the SO₂ CEMS for the Consent Decree emission standards in this permit:
- (1) The owner or operator shall use SO₂ emission data obtained from a CEMS in accordance with the procedures of 40 CFR Part 75 for all thirty (30) day rolling average emission rates and all twelve (12) month rolling average emission rates.
 - (2) The SO₂ emissions data is not required to be bias adjusted and the missing data substituting procedures of 40 CFR Part 75 shall not apply.
 - (3) Diluent capping (i.e., 5% CO₂) shall be applied to the SO₂ emission rate for any hours where the measured CO₂ concentration is less than 5% following the procedures in 40 CFR Part 75, Appendix F, Section 3.3.4.1.
- D. As required by Consent Decree Paragraph 103, the following requirements apply to the NO_x CEMS for the Consent Decree emission standards in this permit:
- (1) The owner or operator shall use NO_x emission data obtained from a CEMS in accordance with the procedures of 40 CFR Part 75 for all thirty (30) day rolling average emission rates and all twelve (12) month rolling average emission rates.
 - (2) The NO_x emissions data is not required to be bias adjusted and the missing data substituting procedures of 40 CFR Part 75 shall not apply.
 - (3) Diluent capping (i.e., 5% CO₂) shall be applied to the NO_x emission rate for any hours where the measured CO₂ concentration is less than 5% following the procedures in 40 CFR Part 75, Appendix F, Section 3.3.4.1.
- E. The following data requirements shall apply to all CEMS for non-Consent Decree emission standards in this permit:
- (3) The CEMS required by this permit shall be operated and data recorded during all periods of operation of the emission unit except for CEM breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.
 - (4) The 1-hour average SO₂ and CO emission rates measured by the CEMS required by this permit shall be used to calculate compliance with the emission standards of this permit. At least 2 data points must be used to calculate each 1-hour average.
- F. If requested by the Department, the owner/operator shall coordinate the quarterly cylinder gas audits with the Department to afford the Department the opportunity to observe these audits. The relative accuracy test audits shall be coordinated with the Department.

Authority for Requirement: DNR PSD Permit 08-A-181-P2; LCPH ATI 6551 / PTO 6512-R2

Other Conditions

Continuous emission monitoring and data collection equipment capable of recording total site hourly and twenty-four hour rolling average SO₂ emission information shall be installed and operational.

Authority for Requirement: Administrative Consent Order No. 97-AQ-20

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
3	201	V	149.25	450	200,000	DNR PSD Permit 08-A-181-P2 LCPH ATI 6551 / PTO 6512-R2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

System-wide Consent Decree Requirements for IPL Facilities in Iowa

Refer to Appendix A, System-wide Consent Decree Requirements for IPL Facilities in Iowa.

Authority for Requirement: Iowa DNR PSD Permit 08-A-181-P2; LCPH ATI 6551 / PTO 6512-R2

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing

Refer to Appendix D, Stack Testing, for the applicable requirements.

Continuous Emissions Monitoring

Pollutant:	Opacity	Filterable PM - Federal
Continuous Emissions Monitor ID:	ME301	ME304
Operational Specifications:	40 CFR 75	40 CFR Part 60
Ongoing System Calibration/Quality Assurance:	40 CFR 75	40 CFR Part 60
Reporting & Recordkeeping:	40 CFR 75	40 CFR Part 60
Authority for Requirement:	567 IAC 25.1(1) 567 IAC 25.2 DNR PSD Permit 08-A-181-P2 LCPH ATI 6551 / PTO 6512-R2	DNR PSD Permit 08-A-181-P2 LCPH ATI 6551 / PTO 6512-R2

Pollutant:	SO ₂	NO _x
Continuous Emissions Monitor ID:	ME302	ME303
Operational Specifications:	40 CFR 75	40 CFR 75
Ongoing System Calibration/Quality Assurance:	40 CFR 75	40 CFR 75
Reporting & Recordkeeping:	40 CFR 75	40 CFR 75
Authority for Requirement:	567 IAC 25.2 DNR PSD Permit 08-A-181-P2 LCPH ATI 6551 / PTO 6512-R2	567 IAC 25.2 DNR PSD Permit 08-A-181-P2 LCPH ATI 6551 / PTO 6512-R2

Pollutant:	CO
Continuous Emissions Monitor ID:	ME305
Operational Specifications:	40 CFR 60
Ongoing System Calibration/Quality Assurance:	40 CFR 60
Reporting & Recordkeeping:	40 CFR 60
Authority for Requirement:	DNR PSD Permit 08-A-181-P2 LCPH ATI 6551 / PTO 6512-R2

Other Parameter:	CO ₂	Flow
Continuous Emissions Monitor ID:	ME306	ME307
Operational Specifications:	40 CFR 75	40 CFR 75
Ongoing System Calibration/Quality Assurance:	40 CFR 75	40 CFR 75
Reporting & Recordkeeping:	40 CFR 75	40 CFR 75
Authority for Requirement:	567 IAC 25.2 DNR PSD Permit 08-A-181-P2 LCPH ATI 6551 / PTO 6512-R2	567 IAC 25.2 DNR PSD Permit 08-A-181-P2 LCPH ATI 6551 / PTO 6512-R2

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the tests shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes No
 Facility Maintained Operation & Maintenance Plan Required? Yes No
 Compliance Assurance Monitoring (CAM) Plan Required? Yes No
 Authority for Requirement: 567 IAC 22.108(3)

Compliance Assurance Monitoring Plan Electrostatic Precipitator (CE302) for PM/PM₁₀ Control

I. Background

A. Emissions Unit

Description: Boiler 3, Dry Bottom Pulverized Coal Unit
 Identification: EU302-303
 Facility: IPL – Prairie Creek Generating Station

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No: LCPH ATI 6551 / PTO 6512-R1
 DNR PSD Permit 08-A-181-P1
 Emission limits: PM: 0.16 lb/MMBtu
 Opacity: 20%
 Current Monitoring Requirements: Continuous Opacity Monitoring System (COMS)
 Primary Power (kVA)

C. Control Technology Electrostatic Precipitator

II. Monitoring Approach

Indicator	Opacity of ESP exhaust (stack)	Primary Power (kVA)
Measurement Approach	COMS in ESP exhaust (stack)	Primary Power (kVA) is monitored not less than 4 (every 15 minute) data points every hour

Indicator	Opacity of ESP exhaust (stack)	Primary Power (kVA)
Indicator Range	An excursion is defined as the hourly block average opacity exceeds 20% except during a period of startup, shutdown, or cleaning of control equipment.	An excursion is defined as the hourly block average of the ESP primary power is out of the ranges below: <35
Performance Criteria		
Data Representativeness	Install the COMS at a representative location in the ESP exhaust per 40 CFR 60, Appendix B, Performance Specification 1 (PS-1)	Plant computer will take primary power data not less than four data points (every 15 minutes) every hour and keep the records. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (kVA) will be calculated in 48 hours. Each data point will represent entire hour block.
QA/QC Practices and Criteria	Install and evaluate COMS per PS-1. The continuous opacity monitor will be automatically calibrated for zero and span adjustments daily.	The voltage and amperage gauges, which are for power (kVA) monitoring, will be calibrated, maintained, and operated according to the manufacturer specifications.
Monitoring Frequency	Monitor opacity of the ESP exhaust continuously (every 10 seconds)	Plant computer will monitor primary power not less than 4 data points (every 15 minutes) per hour. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (kVA) will be calculated within 48 hours. Each data point will represent entire hour block.
Data Collection Procedures	Set up the data acquisition system (DAS) to retain all 6-minute average and hourly average opacity data.	Plant computer will monitor and record primary power not less than 4 data points (every 15 minutes) every hour and keep the record for 5 years and available upon request. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (kVA) will be calculated within 48 hours. Each data point will represent entire hour block.
Averaging Period	Use the 10-second opacity data to calculate 6-minute average. Use the 6-minute average to calculate the hourly block average opacity	Once hourly block average primary power (kVA) is out of range based on computer indication or one manual out of range point, an excursion is triggered.
Recordkeeping and Reporting (Verification of Operational Status)	Record 6-minute average and the hourly block average opacity Excursions trigger an inspection, corrective action, and a reporting requirement at annual or semiannual reports.	Plant computer will take and record primary power data not less than four data points (every 15 minute) every hour. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (kVA) will be calculated in 48 hours. Each data point will represent entire hour block.

Indicator	Opacity of ESP exhaust (stack)	Primary Power (kVA)
		Excursions trigger an inspection, corrective action, and a reporting requirement at annual or semiannual reports.

III. Quality Improvement Plan (QIP)

A Quality Improvement Plan (QIP) will be required if an accumulation of excursions of either the opacity indicator or the power indicator exceeds 5 percent of the boiler's normal operating time for a 6-month reporting period.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 15

Unit 4 Table 1

EP	EU	EU Description	Fuel	Rated Capacity
15	303-304	Unit 4	Natural Gas	1370 MMBtu/hr

Unit 4 Table 2

EP	EU	CE ID	CE Description	CEMS
15	303-304	401	Low NO _x Burners	ME403 - NO _x ME405 - CO ₂ ME406 - Flow

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Consent Decree Annual Tonnage Limits for Prairie Creek

The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The Consent Decree [*United States of America and The State of Iowa, and The County of Linn, Iowa and Sierra Club v. Interstate Power and Light Company*, Civil Action No.: C15-0061; United States District Court for the Northern District of Iowa (September 2, 2015)] established combined total annual tonnage limitations for Boiler 1 (EU 301-301), Boiler 2 (EU 301-302), Unit 3 (EU 302-303), and Unit 4 (EU 303-304). The following limits shall not be exceeded:

Pollutant	Calendar Year	tons/yr ¹	Consent Decree Paragraph
Sulfur Dioxide (SO ₂)	2016-2018	5,500	Paragraph 125
	2019-2020	3,500	
	2021-2025	3,000	
	2026-∞ ²	100	
Nitrogen Oxides (NO _x)	2015-2018	3,250	Paragraph 101
	2019-2025	2,650	
	2026-∞ ³	1,500	

¹ The tonnage limitation shall not be exceeded during each calendar year (January 1 – December 31).

² The tonnage limitation applies calendar year 2026 and continuing each calendar year thereafter.

³ The tonnage limitation applies calendar year 2026 and continuing each calendar year thereafter.

Authority for Requirement: LCPH ATI 6552 / PTO 6513-R2

Emission Limits

The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The following emission limits shall not be exceeded:

Pollutant	lb/hr ¹	tons/yr ²	Other Limits	Reference/Basis
Total Particulate Matter (PM) – State	NA	NA	0.16 lb/MMBTU ¹	LCCO Sec. 10-61(a)(3) LCCO Sec. 10-61(b)(2)
Opacity	NA	NA	20% ^{3,4}	LCCO Sec. 10-60 (a)
Sulfur Dioxide (SO ₂)	1289.3 ⁵	NA	NA	Administrative Consent Order No. 97-AQ-20

¹ The emission limit is expressed as the average of three (3) runs.

² The emission limit is based on a twelve (12) month rolling total.

³ The emission limit is based on a six (6) minute average.

⁴ The observation of **visible emissions** of air contaminants as defined in LCCO 10.2 greater than 20% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the visible emissions. If visible emissions exceedances continue after the corrections, Linn County may require additional proof to demonstrate compliance (e.g., stack testing).

⁵ Standard is a 24-hr rolling average and the limit was established to resolve the issue of the facility's contribution to SO₂ exceedances of the 24-hr SO₂ NAAQS in January, February, and March 1996 as outlined in Administrative Consent Order No. 97-AQ-20.

Authority for Requirement: LCPH ATI 6552 / PTO 6513-R2

Cross-State Air Pollution Rule (CSAPR) (a.k.a., Transport Rule (TR))

Pollutant: Nitrogen Oxides (NO_x) Annual, Nitrogen Oxides (NO_x) Ozone Season, Sulfur Dioxide (SO₂) Group 1

Emission Limits: Nitrogen Oxides and Sulfur Dioxide Allowances

Authority for Requirement: 40 CFR Part 97 (See appendix F for requirements)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Federal Standards

A. Acid Rain:

The facility (plant number 57-01-042) is considered an affected source under 40 CFR 72, 73, 75, 76, 77, and 78 definitions as emission units at this source are subject to the acid rain emission reduction requirements or the acid rain emission limitations, as adopted by the Iowa Department of Natural Resources by reference (See 567 IAC 22.120 – 567 IAC 22.148). This emission unit is subject to the SO₂ allowance allocation, NO_x emission limitations, and monitoring provisions of the federal acid rain program. See "Appendix A. System-wide Consent Decree Requirements for IPL Facilities in Iowa" for IPL's use and surrender of SO₂ and NO_x allowances requirements pursuant to the Consent Decree. Authority for Requirement: LCPH ATI 6552 / PTO 6513-R2

Operating Requirements with Associated Monitoring and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. As required by Consent Decree [*United States of America and The State of Iowa, and The County of Linn, Iowa and Sierra Club v. Interstate Power and Light Company*, Civil Action No.: C15-0061; United States District Court for the Northern District of Iowa (September 2, 2015)] Paragraph 87, the owner or operator was required to either "Retire" or "Refuel" Unit 4 (EU303-304) by June 1, 2018. These terms are defined in the Consent Decree as:
- (1) Retire: As defined in Paragraph 62 of the Consent Decree, means to permanently shut down a unit such that it cannot physically or legally burn a fossil fuel and to comply with applicable state and federal requirements for permanently ceasing operation of the unit as a fossil fuel-fired electric generating unit, including removing the unit from Iowa's air emission inventory and amending all applicable permits so as to reflect the permanent shutdown status of the unit.
 - (2) Refuel: As defined in Paragraph 59 of the Consent Decree, means that a unit is "*Refueled to Natural Gas*" which according to Consent Decree Paragraph 60 means the modification of a unit such that the modified unit generates electricity solely through the combustion of natural gas.

Therefore, the owner or operator shall:

- (a) Combust only natural gas in Unit 4 (EU 303-304) and
 - (b) Continuously operate the Low NO_x Combustion System (Low NO_x Burners – CE 401). Per Paragraph 15 of the Consent Decree, the term "continuously operate" means the Low NO_x Combustion System (CE 401) shall be operated at all times when Unit 4 (EU 303-304) is in operation consistent with the technological limitations, manufacturer's specifications, good engineering and maintenance practices, and good air pollution control practices for minimizing emissions [as defined in 40 CFR 60.11(d)].
- B. Per Administrative Consent Order No. 97-AQ-20, the owner or operator shall calculate SO₂ emissions using stack test data, AP-42 emission factors, mass balance calculations based on fuel specific (natural gas and/or pipeline natural gas) sulfur content, or the procedures outlined in 40 CFR Part 75 in order to demonstrate compliance with the twenty-four hour rolling average SO₂ emission limit.

- C. Upon termination of the Consent Decree, the owner or operator shall submit periodic reports as required by Title V to demonstrate compliance with all Consent Decree requirements contained within Condition 1a. (Consent Decree Emission Limits). At a minimum, the information in the reports shall include all information necessary to determine compliance during the reporting period with:
- (a) The 12-month rolling average emission rate for SO₂;
 - (b) The 12-month rolling average emission rate for NO_x.

Authority for Requirement: LCPH ATI 6552 / PTO 6513-R2

Continuous Monitoring Systems

The following continuous monitoring requirements apply to this emission point (EP015) and its associated emission unit (EU303-304) and control equipment (CE401, CE402, and CE403).

A. The following monitoring systems are required:

(1) *NO_x*:

Compliance with the nitrogen oxide (NO_x) emission limits of this permit shall be continuously demonstrated by the owner or operator through the use of a continuous emission monitoring system (CEMS). Therefore, the owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring NO_x emissions discharged to the atmosphere and record the output of the system.

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 2 (PS2) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a notice to the Department with the dates of the annual relative accuracy test audit.

(2) *O₂ or CO₂*:

The owner or operator shall install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring the oxygen (O₂) or carbon dioxide (CO₂) content of the flue gasses at each location where SO₂ or NO_x emissions are monitored.

(3) *Flowmeter*:

The owner or operator shall install, certify, operate, and maintain a continuous flow monitoring system meeting the requirements of 40 CFR Part 60, Appendix B, Performance Specification 6 of 40 CFR 60, Appendix F, Procedure 1. In addition, the owner or operator shall record the output of the system, for measuring the volumetric flow of exhaust gases discharged to the atmosphere or

Alternatively, data from a continuous flow monitoring system certified according to the requirements of 40 CFR 75.20(c) and 40 CFR 75, Appendix A, and continuing to meet the applicable quality control and quality assurance requirements of 40 CFR 75.21 and 40 CFR 75, Appendix B, may be used.

B. The CEMS required in Condition 6.A. for NO_x, and either O₂ or CO₂ shall be operated and the data recorded during all periods of operation including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.

C. As required by Consent Decree Paragraph 103, the following requirements apply to the NO_x CEMS for the Consent Decree emission standards in this permit:

(1) The owner or operator shall use NO_x emission data obtained from a CEMS in accordance with the procedures of 40 CFR Part 75 for all thirty (30) day rolling average emission rates and all twelve (12) month rolling average emission rates.

(2) The NO_x emissions data is not required to be bias adjusted and the missing data substituting procedures of 40 CFR Part 75 shall not apply.

(3) Diluent capping (i.e., 5% CO₂) shall be applied to the NO_x emission rate for any hours where the measured CO₂ concentration is less than 5% following the procedures in 40 CFR Part 75, Appendix F, Section 3.3.4.1.

D. If requested by the Department, the owner/operator shall coordinate the quarterly cylinder gas audits with the Department to afford the Department the opportunity to observe these audits. The relative accuracy test audits shall be coordinated with the Department.

Authority for Requirement: LCPH ATI 6552 / PTO 6513-R2

Operating Conditions

Continuous emission monitoring and data collection equipment capable of recording total site hourly and twenty-four hour rolling average SO₂ emission information shall be installed and operational.

Authority for Requirement: Administrative Consent Order No. 97-AQ-20

Maintain hourly and twenty-four hour rolling average SO₂ records for Prairie Creek Generating Station which will verify compliance with the twenty-four hour rolling average SO₂ emission limit. The records shall include the data required in the previous paragraph and in 40 CFR 75 for Continuous Emissions Monitoring.

Authority for Requirement: Administrative Consent Order No. 97-AQ-20

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
15	201	V	156	300	571,000	LCPH ATI 6552 / PTO 6513-R2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

System-wide Consent Decree Requirements for IPL Facilities in Iowa

Refer to Appendix A, System-wide Consent Decree Requirements for IPL Facilities in Iowa.

Authority for Requirement: LCPH ATI 6552 / PTO 6513-R2

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing

Refer to Appendix D, Stack Testing, for the applicable requirements.

Continuous Emissions Monitoring

Pollutant / Other Parameter:	NO _x	CO ₂
Continuous Emissions Monitor ID:	ME403	ME405
Operational Specifications:	40 CFR 75	40 CFR 75
Ongoing System Calibration/Quality Assurance:	40 CFR 75	40 CFR 75
Reporting & Recordkeeping:	40 CFR 75	40 CFR 75
Authority for Requirement:	567 IAC 25.2 LCPH ATI 6552 / PTO 6513-R2	567 IAC 25.2 LCPH ATI 6552 / PTO 6513-R2

Other Parameter:	Flow
Continuous Emissions Monitor ID:	ME406
Operational Specifications:	40 CFR 75
Ongoing System Calibration/Quality Assurance:	40 CFR 75
Reporting & Recordkeeping:	40 CFR 75
Authority for Requirement:	567 IAC 25.2 LCPH ATI 6552 / PTO 6513-R2

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the tests shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes No
Facility Maintained Operation & Maintenance Plan Required? Yes No
Compliance Assurance Monitoring (CAM) Plan Required? Yes No
 Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 100

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
100	100-100B-D	Coal Belt Dust Handling Pick-ups for Bunkers 3 & 4	Coal	750 tons/hr	100	Baghouse
	503-100	Boiler 3 Coal Storage Bunker		37 tons/hr		
	504-100	Boiler 4 Coal Storage Bunker		83 tons/hr		

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
100	Opacity	20%	LCPH ATI 6308 / PTO 6314 LCO Sec. 10-60(a) and LCO Sec. 10-62(b)(22) 567 IAC 23.1(2)"v" 40 CFR 60.254
	PM ₁₀	3.35 lb/hr	LCPH ATI 6308 / PTO 6314
	PM	0.1 gr/dscf	LCPH ATI 6308 / PTO 6314 LCO Sec. 10-62(a)(1) 567 IAC 23.3(2)"a"(2)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device

A baghouse shall be installed to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 6308 / PTO 6314

Federal Standards

A. New Source Performance Standards (NSPS):

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCO)	Federal Reference (40 CFR)
100-100B-D	A	General Conditions	--	Sec. 10-62(b)	§60.1 – §60.19
503-100 504-100	Y	Standards of Performance for Coal Preparation Plants	--	Sec. 10-62(b)(22)	§60.250 - §60.258

Authority for Requirement: LCPH ATI 6308 / PTO 6314; 567 IAC 23.1(2)"v"; LCO Sec. 10-62(b)(22)
40 CFR 60 Subpart Y

Operating Limits

- A. The baghouse on this unit shall be maintained according to the manufacturer's specifications and good operating practices.
- B. The pressure differential across the baghouse shall be maintained between 0.1" and 8" of water column.
- C. This facility shall meet all applicable requirements of 40 CFR 60 [NSPS Subpart A] to comply with LCO Sec. 10-62(b)(22).
- D. This facility shall meet the applicable standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles of 40 CFR §60.254 [NSPS Subpart Y] to comply with LCO Sec. 10-62(b)(22).
- E. This facility shall meet the performance tests and other compliance requirements of 40 CFR §60.255 [NSPS Subpart Y] to comply with LCO Sec. 10-62(b)(22).

Authority for Requirement: LCPH ATI 6308 / PTO 6314

Operating Condition Monitoring and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. Monitor and record weekly pressure drop readings while operating.
- B. Monitor and record weekly no visible emissions readings while operating.
- C. Record all maintenance and repair completed on the control device.

Authority for Requirement: LCPH ATI 6308 / PTO 6314

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
100	140.7	V	24 x 36	Ambient	33,353	LCPH ATI 6308 / PTO 6314

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

Refer to Appendix D, Opacity Monitoring, for the complete requirement and summary of all emission points at the facility subject.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes ⁽¹⁾ No

⁽¹⁾ Refer to Appendix E, Facility O&M Plans, for the applicable requirements.

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 104

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
104	100-100E	Coal Belt Dust Handling Pick-ups for Bunkers 1 & 2	Coal	24 tons/hr	504	Baghouse
	501-100	Boiler 1 Coal Storage Bunker		12 tons/hr		
	502-100	Boiler 2 Coal Storage Bunker		12 tons/hr		

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
104	Opacity	20%	LCPH ATI 6309 / PTO 6315 LCO Sec. 10-60(a) and LCO Sec. 10-62(b)(22) 567 IAC 23.1(2)"v" 40 CFR §60.254
	PM ₁₀	1.5 lb/hr	LCPH ATI 6309 / PTO 6315
	PM	0.1 gr/dscf	LCPH ATI 6309 / PTO 6315 LCO Sec. 10-62(a)(1) 567 IAC 23.3(2)"a"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device

A baghouse shall be installed to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 6309 / PTO 6315

Federal Standards

A. New Source Performance Standards (NSPS):

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCO)	Federal Reference (40 CFR)
100	A	General Conditions	--	Sec. 10-62(b)	§60.1 – §60.19
	Y	Standards of Performance for Coal Preparation Plants	--	Sec. 10-62(b)(22)	§60.250 - §60.258

Authority for Requirement: LCPH ATI 6309 / PTO 6315; 567 IAC 23.1(2)"v"; LCO Sec. 10-62(b)(22)
40 CFR 60 Subpart Y

Operating Limits

- A. The baghouse on this unit shall be maintained according to the manufacturer's specifications and good operating practices.
- B. The pressure differential across the baghouse shall be maintained between 0.5" and 7" of water column.
- C. This facility shall meet all applicable requirements of 40 CFR 60 [NSPS Subpart A] to comply with LCO Sec. 10-62(b)(22).
- D. This facility shall meet the applicable standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles of 40 CFR §60.254 [NSPS Subpart Y] to comply with LCO Sec. 10-62(b)(22).
- E. This facility shall meet the performance tests and other compliance requirements of 40 CFR §60.255 [NSPS Subpart Y] to comply with LCO Sec. 10-62(b)(22).

Authority for Requirement: LCPH ATI 6309 / PTO 6315

Operating Condition Monitoring and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. Monitor and record weekly pressure drop readings while operating.
- B. Monitor and record weekly no visible emissions readings while operating.
- C. Record all maintenance and repair completed on the control device.

Authority for Requirement: LCPH ATI 6309 / PTO 6315

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
104	96	V	18	Ambient	6,000	LCPH ATI 6309 / PTO 6315

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

Refer to Appendix D, Opacity Monitoring, for the complete requirement and summary of all emission points at the facility subject.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes ⁽¹⁾ No

⁽¹⁾ Refer to Appendix E, Facility O&M Plans, for the applicable requirements.

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 120

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
120	404-405	Boiler 3 Fly Ash Transfer	Ash	10 tons/hr	405	Baghouse
	405-406	Boiler 4 Fly Ash Transfer		10 tons/hr	406	Baghouse

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
120	Opacity	20%	LCO Sec. 10-60(a)
	PM	0.1 gr/dscf	567 IAC 23.3(2)"a" LCO Sec. 10-62(a)(1)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

Refer to Appendix D, Opacity Monitoring, for the complete requirement and summary of all emission points at the facility subject.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 121

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
121	522-521	Boilers 1 & 2 Fly Ash Transfer	Ash	8 tons/hr ¹	520	Baghouse
	523-521	Boilers 1, 2 & 3 Bottom Ash Transfer		8 tons/hr ¹	521	Cyclone
					522	Baghouse

¹ Only one emission unit can operate at a time.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
121	Opacity	20%	LCPH ATI 6906 / PTO 6843 LCO Sec. 10-60(a)
	PM	0.1 gr/dscf	LCPH ATI 6906 / PTO 6843 567 IAC 23.3(2)"a" LCO Sec. 10-62(a)(1)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Requirements with Associated Monitoring and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall maintain a record of maintenance completed on all control equipment.
- B. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

Authority for Requirement: LCPH ATI 6906 / PTO 6843

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
121	12	H	8	120	1,474	LCPH ATI 6906 / PTO 6843

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

Refer to Appendix D, Opacity Monitoring, for the complete requirement and summary of all emission points at the facility subject.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 122, 123

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
122	524-521	Boilers 1 & 2 Fly Ash Silo	Fly Ash	8 tons/hr	524	Bin Vent Filters
123	525-521	Boilers 1, 2 & 3 Bottom Ash Silo	Bottom Ash	8 tons/hr	525	Bin Vent Filters

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
122 123	Opacity	20%	LCPH ATI 6907 / PTO 6644 LCPH ATI 6881 / PTO 6630 LCO Sec. 10-60(a)
	PM	0.1 gr/dscf	LCPH ATI 6907 / PTO 6644 LCPH ATI 6881 / PTO 6630 567 IAC 23.3(2)"a" LCO Sec. 10-62(a)(1)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Requirements with Associated Monitoring and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall maintain a record of maintenance completed on all control equipment.
- B. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

Authority for Requirement: LCPH ATI 6907 / PTO 6644; LCPH ATI 6881 / PTO 6644

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
122	92	H	10 x 6	Ambient	675 ¹	LCPH ATI 6907 / PTO 6644
123	92	H	10 x 6	Ambient	340 ¹	LCPH ATI 6881 / PTO 6630

¹ Displacement

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring

Refer to Appendix D, Opacity Monitoring, for the complete requirement and summary of all emission points at the facility subject.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 331

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
331	331-331	#2 Emergency Generator	#2 Fuel Oil	74.3 gallons/hr 1000 kW	--	--

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
331	Opacity	10%	LCPH ATI 5718 / PTO 5543 LCO Sec. 10-60(a)
	PM	0.59 lb/MMBtu	LCPH ATI 5718 / PTO 5543
	PM ₁₀	0.44 lb/hr	LCPH ATI 5718 / PTO 5543
	SO ₂	1.5 lb/MMBtu	LCPH ATI 5718 / PTO 5543 LCO Sec. 10-65(a)(1)(b)

NSPS Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
331	PM (Filterable Only)	0.20 g/kw-hr	LCPH ATI 5718 / PTO 5543 40 CFR §60.4205(b)
	NMHC + NO _x	6.4 g/kw-hr	
	CO	3.5 g/kw-hr	

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits

- A. The owner or operator shall meet the applicable General Provisions requirements of 40 CFR §60 (Subpart A) as indicated in 40 CFR §60.4218 to comply with LCO Sec. 10-62(b).
- B. The owner or operator shall meet the Emission Standards for Owners and Operators requirements of 40 CFR § 60.4205 and §60.4206 (NSPS Subpart IIII) to comply with LCO Sec. 10-62(b)(77).
- C. The owner or operator shall comply with the Fuel Requirements for Owners and Operators of 40 CFR §60.4207 (NSPS Subpart IIII) to comply with LCO Sec. 10-62(b)(77).
- D. The emergency stationary internal combustion engine (ICE) shall operate no more than 500 hours per 12-month rolling period.
- E. Per 40 CFR §60.4211, owners and operators of emergency stationary ICE meeting standards under §60.4205, but not §60.4204, any operation other than emergency operation and maintenance and testing is prohibited. Maintenance testing of the emergency stationary ICE is limited to a maximum of 100 hours per rolling 12-month period.
- F. The emergency stationary ICE shall only be fired by #1 or #2 fuel oil.
- G. The sulfur content of any diesel fuel used in the emission unit shall not exceed 0.5% by weight per LCO Sec. 10-65(a)(1)(c).

Authority for Requirement: LCPH ATI 5718 / PTO 5543

Operating Condition Monitoring and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. Record the sulfur content of each fuel shipment used in this engine in percent by weight.
- B. Record the number of hours the emergency stationary internal combustion engine (ICE) is operated each month and the reason the emission unit was operated. Calculate and record 12-month rolling totals.
- C. The owner or operator shall complete all recordkeeping and monitoring as required by NSPS Subpart III as indicated below:
 - 1. The owner or operator of the emergency stationary ICE shall follow the monitoring requirements of 40 CFR §60.4209.
 - 2. The owner or operator of the emergency stationary ICE shall follow the compliance requirements of 40 CFR §60.4211.
 - 3. The owner or operator of the emergency stationary ICE shall follow the notification, reporting, and recordkeeping requirements of 40 CFR §60.4214(b).

Authority for Requirement: LCPH ATI 5718 / PTO 5543

Federal Standards

A. New Source Performance Standards (NSPS):

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCO Sec.)	Federal Reference (40 CFR)
331-331	A	General Conditions	--	Sec. 10-62(b)	§60.1 – §60.19
	III	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	New Emergency Engine	Sec. 10-62(b)(77)	§60.4200 - §60.4219

Authority for Requirement: LCPH ATI 5718 / PTO 5543; 40 CFR 60 Subpart III

B. National Emission Standards for Hazardous Air Pollutants (NESHAP):

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCO Sec.)	Federal Reference (40 CFR)
331-331	ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	New Emergency Engine @ Major Source	Sec. 10-62(d)(104)	§63.6580 - §63.6675

Authority for Requirement: LCPH ATI 5718 / PTO 5543; 40 CFR Part 63 Subpart ZZZZ

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
331	38	V	20	965	3,100	LCPH ATI 5718 / PTO 5543

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 500

Boiler 5 Table 1

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
500	500	Boiler 5	Natural Gas	278 MMBtu/hr	500	Low NO _x Burner

Boiler 5 Table 2

EP	EU	CEMS
500	500	ME500 - NO _x ME502 - O ₂

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
500	Opacity	20%	LCO Sec. 10-60(a)
		0%	LCPH ATI 3696 / PTO 3957 DNR PSD Permit 97-A-999-S1
	PM/PM ₁₀	0.01 lb/MMBtu; 2.78 lb/hr; 5.0 tpy	LCPH ATI 3696 / PTO 3957 DNR PSD Permit 97-A-999-S1
	SO ₂	0.0006 lb/MMBtu; 0.17 lb/hr; 0.3 tpy	LCPH ATI 3696 / PTO 3957 DNR PSD Permit 97-A-999-S1
		500 ppm _v	567 IAC 23.3(3)"e" LCO Sec. 10-65(a)(2)
	NO _x	0.1 lb/MMBtu; 27.8 lb/hr; 50 tpy	LCPH ATI 3696 / PTO 3957 DNR PSD Permit 97-A-999-S1
CO	0.035 lb/MMBtu; 9.73 lb/hr; 17.5 tpy	LCPH ATI 3696 / PTO 3957 DNR PSD Permit 97-A-999-S1	

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device

A Low-NO_x burner shall be installed to control NO_x emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Federal Standards

A. New Source Performance Standards (NSPS):

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCO Sec.)	Federal Reference (40 CFR)
500	A	General Conditions	--	10-62(b)	§60.1 – §60.19
	Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	Natural Gas	10-62(b)(55)	§60.40b – §60.49b

Authority for Requirement: DNR PSD Permit 97-A-999-S1; LCPH ATI 3696 / PTO 3957; 567 IAC 23.1(2)"ccc"; LCO Sec. 10-62(b)(55); 40 CFR 60 Subpart Db

- B. National Emission Standards for Hazardous Air Pollutants (NESHAP):
The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCO Sec.)	Federal Reference (40 CFR)
500	A	General Conditions	--	10-62(d)(1)	§63.1 – §63.15

This emission unit is subject to the following federal regulation: *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters* [40 CFR Part 63, Subpart DDDDD].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

Operating Limits

- A. This boiler shall be fired by natural gas only.
 - B. The amount of natural gas fired in this boiler shall not exceed 1000 x 10⁶ ft³ per rolling 12 month period.
- Authority for Requirement: DNR PSD Permit 97-A-999-S1; LCPH ATI 3696 / PTO 3957

Operating Condition Monitoring and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. The amount of natural gas fired in this boiler, in cubic feet. Calculate and record daily amounts and monthly and rolling 12 month totals.
- B. The design heat input capacity of this boiler.
- C. The NOx emissions as recorded by the CEM as required in 40 CFR §60.48b(b).
- D. Recordkeeping requirements of 40 CFR 60.49b(g) which include:
 - i. calendar date
 - ii. average hourly NOx emission rate
 - iii. 30-Day average NOx emission rate
 - iv. days NOx emission rate exceed limit
 - v. record of missing data and explanation
 - vi. documentation of reasons for excluding data, indication of when concentration exceeded span value
 - vii. description of monitoring system
 - viii. results of drift tests and quality assurance assessments

Authority for Requirement: DNR PSD Permit 97-A-999-S1; LCPH ATI 3696 / PTO 3957

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
500	106.5	V	78	470	79,640	DNR PSD Permit 97-A-999-S1 LCPH ATI 3696 / PTO 3957

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing

Refer to Appendix D, Stack Testing, for the applicable requirements.

Continuous Emissions Monitoring

Pollutant / Other Parameter:	NO _x	O ₂
Continuous Emissions Monitor ID:	ME500	ME501
Operational Specifications:	40 CFR 60, Subparts A & Db	40 CFR 60, Subparts A & Db
Ongoing System Calibration/Quality Assurance:	40 CFR 60, Subparts A & Db	40 CFR 60, Subparts A & Db
Reporting & Recordkeeping:	40 CFR 60, Subparts A & Db	40 CFR 60, Subparts A & Db
Authority for Requirement:	DNR PSD Permit 97-A-999-S1 LCPH ATI 3696 / PTO 3957 567 IAC 23.1(2)"ccc" LCO 10.9(2)"55"	LCPH ATI 6379 / PTO 6421 567 IAC 23.1(2)"ccc" LCO 10.9(2)"55"

The owner of this equipment or his authorized agent shall provide written notice to the Director and the Linn County local program office, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the tests shall be submitted in writing to the Director and the Linn County local program office in the form of a comprehensive report within 30 days of the completion of the testing. 567 IAC 25.1(7)

Opacity Monitoring:

Refer to Appendix D, Opacity Monitoring, for the complete requirement and summary of all emission points at the facility subject.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Emission Point ID Number: 600

Boiler 6 Table 1

EP	EU	EU Description	Fuel	Rated Capacity	CE ID	CE Description
600	600	Boiler 6	Natural Gas	99.9 MMBtu/hr	600	Low NOx Burner w/ FGR

Boiler 6 Table 2

EP	EU	CEMS
600	600	ME600 - NO _x ME601 - O ₂

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
600	Opacity	20%	LCPH ATI 6379 / PTO 6421 LCO Sec. 10-60(a)
	PM	0.352 lb/MMBtu	LCPH ATI 6379 / PTO 6421 LCO Sec. 10-61(b)(2)
	PM/PM ₁₀	2.00 lb/hr	LCPH ATI 6379 / PTO 6421
	SO ₂	500 ppm _v	LCPH ATI 6379 / PTO 6421 567 IAC 23.3(3)"e" LCO Sec. 10-65(a)(2)
		0.2 lb/hr	LCPH ATI 6379 / PTO 6421
	NO _x	9.99 lb/hr	LCPH ATI 6379 / PTO 6421
		0.2 lb/MMBtu	LCPH ATI 6379 / PTO 6421 40 CFR §60.42b(k)(2)
CO	19.98 lb/hr	LCPH ATI 6379 / PTO 6421	

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Federal Standards

A. New Source Performance Standards (NSPS):

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCO Sec.)	Federal Reference (40 CFR)
600	A	General Conditions	--	10-62(b)	§60.1 – §60.19
	Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	Natural Gas	10-62(b)(55)	§60.40b – §60.49b

Authority for Requirement: LCPH ATI 6379 / PTO 6421; 567 IAC 23.1(2)"ccc"; LCO Sec. 10-62(b)(55); 40 CFR 60 Subpart Db

B. National Emission Standards for Hazardous Air Pollutants (NESHAP):

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCO Sec.)	Federal Reference (40 CFR)
600	A	General Conditions	--	10-62(d)(1)	§63.1 – §63.15

This emission unit is subject to the following federal regulation: *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters* [40 CFR Part 63, Subpart DDDDD].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

Operating Limits

- A. This facility shall meet the monitoring requirements of 40 CFR 60 §§ 1-19 [NSPS Subpart A] to comply with LCO Sec. 10-62(b).
- B. This facility shall meet the standards of 40 CFR §60.42b through 40 CFR §60.44b [NSPS Subpart Db] to comply with LCO Sec. 10-62(b)(55).
- C. This boiler shall be limited to pipeline quality natural gas fuel only.
- D. This facility shall meet the testing and emission monitoring procedures of 40 CFR §60.45b through 40 CFR §60.48b [NSPS Subpart Db] to comply with LCO Sec. 10-62(b)(55).
- E. The total throughput of natural gas for this unit shall be limited to a rolling 12-month total of 745.84 MMCF.

Authority for Requirement: LCPH ATI 6379 / PTO 6421

Operating Condition Monitoring and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. Recordkeeping for NSPS Subpart Db shall be done in accordance with 40 CFR §60.7.
- B. Monitoring for NSPS Subpart Db shall be done in accordance with 40 CFR §60.47b and §60.48b.
- C. Initial notification and recordkeeping shall be performed in accordance with 40 CFR §60.7.
- D. The owner or operator shall monitor and record the monthly and rolling 12-month total amount of natural gas combusted in this unit.
- E. Maintain fuel supplier certifications of the sulfur content of all fuels burned in accordance with 40 CFR §60.49b(r).

Authority for Requirement: LCPH ATI 6379 / PTO 6421

Reporting Requirements

The following information shall be submitted to this department by the 30th of each month for the previous quarter (January 30, April 30, July 30 and October 30).

- A. In accordance with 40 CFR §60.49b(i) a quarterly report containing the information recorded under 40 CFR §60.49b(g) shall be submitted.
- B. In accordance with 40 CFR §60.45b(k) and §60.48b(j)(2), the owner or operator must provide a report containing fuel records of the sulfur content of the fuels burned, as described under §60.49b(r), which shall be submitted on a quarterly basis.

Authority for Requirement: LCPH ATI 6379 / PTO 6421

Continuous Emissions Monitoring

Emission monitoring for nitrogen oxides shall be performed in accordance with 40 CFR §60.48b. Accordingly, the facility being subject to a NO_x standard under 40 CFR §60.44b, shall demonstrate compliance in accordance with either subparagraph A or B:

- A. Install, calibrate, maintain, and operate CEMS for measuring NO_x and O₂ (or CO₂) emissions discharged to the atmosphere, and shall record the output of the system; or
- B. If the owner or operator has installed a NO_x emission rate CEMS to meet the requirements of part 75 of this chapter and is continuing to meet the ongoing requirements of part 75 of this chapter, that CEMS may be used to meet the requirements of this section, except that the owner or operator shall also meet the requirements of §60.49b. Data reported to meet the requirements of §60.49b shall not include data substituted using the missing data procedures in subpart D of part 75 of this chapter, nor shall the data have been bias adjusted according to the procedures of part 75 of this chapter.

The CEMS shall be installed, evaluated, and operated, and data recorded in accordance with 40 CFR §60.48b(c)-(f).

The system shall be designed to meet 40 CFR 60, Appendix B, Performance Specification 2 (PS2). The specifications of 40 CFR 60, Appendix F, (Quality Assurance Procedures) shall apply.

In accordance with 40 CFR §60.48b(g) the owner or operator of an affected facility that has a heat input capacity of 250 million Btu/hour or less, and which has an annual capacity factor for natural gas having a nitrogen content of greater than 10 percent (0.10) shall comply with the provisions of paragraphs (b), (c), (d), (e)(2), (e)(3), and (f) of 40 CFR §60.48b.

In accordance with 40 CFR §60.48b(j), units that burn only gaseous fuels with potential sulfur dioxide emission rates of 0.32 lb/MMBtu heat input or less are not required to conduct PM emissions monitoring if they maintain fuel supplier certifications of the sulfur content of the fuels burned.

Authority for Requirement: LCPH ATI 6379 / PTO 6421

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
600	80	V	42	333	27,967	LCPH ATI 6379 / PTO 6421

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing

Refer to Appendix D, Stack Testing, for the applicable requirements.

Continuous Emissions Monitoring

Pollutant / Other Parameter:	NO _x	O ₂
Continuous Emissions Monitor ID:	ME600	ME601
Operational Specifications:	40 CFR 60, Subparts A & Db	40 CFR 60, Subparts A & Db
Ongoing System Calibration/Quality Assurance:	40 CFR 60, Subparts A & Db	40 CFR 60, Subparts A & Db
Reporting & Recordkeeping:	40 CFR 60, Subparts A & Db	40 CFR 60, Subparts A & Db
Authority for Requirement:	LCPH ATI 6379 / PTO 6421 567 IAC 23.1(2)"ccc" LCO 10.9(2)"55"	LCPH ATI 6379 / PTO 6421 567 IAC 23.1(2)"ccc" LCO 10.9(2)"55"

The owner of this equipment or his authorized agent shall provide written notice to the Director and the Linn County local program office, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the tests shall be submitted in writing to the Director and the Linn County local program office in the form of a comprehensive report within 30 days of the completion of the testing. 567 IAC 25.1(7)

Opacity Monitoring

Refer to Appendix D, Opacity Monitoring, for the complete requirement and summary of all emission points at the facility subject.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No
Facility Maintained Operation & Maintenance Plan Required? Yes No
Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 601

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
601	601	AC Silo	Activated Carbon	2,970 ft ³	601	Bin Vent Filter

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
601	Opacity	20%	LCPH ATI 6553 / PTO 6514 LCO Sec. 10-60(a)
	PM	0.1 gr/dscf	LCPH ATI 6553 / PTO 6514 LCO Sec. 10-62(a)(1) 567 IAC 23.3(2)"a"
	PM/PM ₁₀	0.1 lb/hr	LCPH ATI 6553 / PTO 6514

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device

A bin vent filter shall be installed to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 6553 / PTO 6514

Operating Limits

Operating limits for this emission unit shall be:

A. Operate and maintain the control equipment according to the manufacturer's specifications.

Authority for Requirement: LCPH ATI 6553 / PTO 6514

Operating Condition Monitoring and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

A. The owner or operator shall record all maintenance performed on the control equipment.

Authority for Requirement: LCPH ATI 6553 / PTO 6514

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
601	48	H	8 x 10	70	1,100	LCPH ATI 6553 / PTO 6514

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 110, 401, 402, 403

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
110	110-110	Reclaim Hopper	Coal	750 tons/hr	--	--
401	401-401	Coal Unloading		600 tons/hr	401	Surfactant Based Dust Suppression
402	402-402	Coal Unloading House		750 tons/hr	402	Surfactant Based Dust Suppression
403	403-403	Coal Load Out		600 tons/hr	--	--

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
110 401 402 403	Opacity	20%	LCO Sec. 10-60(a) & LCO Sec. 10-62(b)(22) 567 IAC 23.1(2)"v" 40 CFR §60.254

Pollutant: Fugitive Dust

No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"; LCO Sec. 10-66

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Federal Standards

A. New Source Performance Standards (NSPS):

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCO Sec.)	Federal Reference (40 CFR)
110 401	A	General Conditions	--	Sec. 10-62(b)	§60.1 – §60.19
402 403	Y	Standards of Performance for Coal Preparation Plants	--	Sec. 10-62(b)(22)	§60.250 - §60.258

Authority for Requirement: 567 IAC 23.1(2)"v"; LCO Sec. 10-62(b)(22); 40 CFR 60 Subpart Y

Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 120a, 121a, 400, 501

Associated Equipment.

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
120a	406-407	Ash Loadout	Ash	60 tons/hr	--	--
121a	521-521	Ash Loadout for Units 1 & 2	Ash	120 tons/hr	--	--
400	102-100	Coal Stacker	Coal	750 tons/hr	--	--
	400-400	Coal Pile Storage	Coal	8 acres	--	--
501	501-501	Ecoston Production	Fly Ash	60 tons/hr	--	--

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust

No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"; LCO Sec. 10-66

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No :

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22 and Linn County Code of Ordinance (LCO) Chapter 10 – Environment, Article III, Sec. 10-57.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*
6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 22.108(15)"c"*

G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, Wallace State Office Building, 502 E 9th St., Des Moines, IA 50319-0034, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permitting & Standards Branch, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and Linn County Public Health Air Quality Division. *567 IAC 22.108 (15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a

responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and Linn County Public Health Air Quality Division. 567 IAC 22.108 (5)

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source 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, 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 ensuring compliance with the permit or other applicable requirements. 567 IAC 22.108 (15)"b" and LCO Sec. 10-75

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request 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 permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. 567 IAC 22.108 (9)"e" and LCO Sec. 10-71 and 10-72

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. 567 IAC 24.2(1) and LCO Sec. 10-67(b)

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
 - a. The date, place and time of sampling or measurements
 - b. The date the 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 as existing at the time of sampling or measurement.

- g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
- 2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
- 3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
 - a. Comply with all terms and conditions of this permit specific to each alternative scenario.
 - b. Maintain a log at the permitted facility of the scenario under which it is operating.
 - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

- 1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
 - a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
 - b. Compliance test methods specified in 567 Chapter 25; or
 - c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
- 2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
 - a. Any monitoring or testing methods provided in these rules; or
 - b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2) and LCO Sec. 10-69(1)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 725-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in *567 IAC 131.2(2)*. *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation

constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. **Initial Reporting of Excess Emissions.** An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

b. **Written Reporting of Excess Emissions.** A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4) and LCO Sec. 10-67*

3. **Emergency Defense for Excess Emissions.** For the purposes of this permit, an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or upset provision contained in any applicable requirement. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4) This notification must be made to Linn County Air Quality Division, in lieu of the Department, upon adoption of the NSPS or NESHAP into Chapter 10.*

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

- a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
- b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
- c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
- d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));
- e. The changes comply with all applicable requirements.
- f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.

567 IAC 22.110(1)

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule.

Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

- a. An administrative permit amendment is a permit revision that does any of the following:
 - i. Correct typographical errors
 - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
 - iii. Require more frequent monitoring or reporting by the permittee; or
 - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
- b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Title V Permit Modification.

a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:

- i. Do not violate any applicable requirement;
- ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
- iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
- iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
- v. Are not modifications under any provision of Title I of the Act; and
- vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

- i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
- ii. The permittee's suggested draft permit;
- iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
- iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.111-567 IAC 22.113*

G19. Duty to Obtain Construction Permits

Unless exempted in 567 IAC 22.1(2) or to meet the parameters established in 567 IAC 22.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, or conditional permit, or permit pursuant to rule 567 IAC 22.8, or permits required pursuant to rules 567 IAC 22.4, 567 IAC 22.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 22.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. *567 IAC 22.1(1) and LCO Sec. 10-58*

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations (*567 IAC 23.1(3)"a"*); training fires and controlled burning of a demolished building (*567 IAC 23.2*).

G21. Open Burning

The permittee is prohibited from conducting open burning, except as provided in LCO Sec. 10-63.

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
- b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
- c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
- d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
- b. 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.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
- d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
- e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
- f. Owners/operators 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.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. 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,

5. The permittee shall be allowed to switch from any ozone-depleting or greenhouse gas generating substances 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. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

- a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
- b. Reopening and revision on this ground is not 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 pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

- c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*
- 3. A permit shall be reopened and revised under any of the following circumstances:
 - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
- 4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*
- 5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

G25. Permit Shield

- 1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
 - a. Such applicable requirements are included and are specifically identified in the permit; or
 - b. The director, 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 or a concise summary thereof.
- 2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
- 3. A permit shield shall not alter or affect the following:
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
 - d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8) and LCO Sec. 1-7*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought consistent with the requirements of *567 IAC 22.111(1)*. *567 IAC 22.111 (1)"d"*

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable

requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-9526

Within Linn County, stack test notifications, reports and correspondence shall also be directed to the supervisor of the county air pollution program.

567 IAC 25.1(7)"a", 567 IAC 25.1(9) and LCO Sec. 10-70

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons. *567 IAC 26.1(1)*

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

Iowa Compliance Officer
Air Branch
Enforcement and Compliance Assurance Division
U.S. EPA Region 7
Air Permits and Compliance Branch
11201 Renner Blvd.
Lenexa, KS 66219
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau
Iowa Department of Natural Resources
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-8200

Reports or notifications to the Linn County local program shall be directed to the supervisor at the Linn County local program. The current address and phone number is:

Linn County Public Health
Air Quality Branch
1240 26th Avenue Ct SW
Cedar Rapids, IA 52404
(319) 892-6000

V. APPENDIX A – System-wide Consent Decree Requirements for IPL Facilities in Iowa

Any requirements contained in this permit that are required by and refer to "Consent Decree" [*United States of America and The State of Iowa, and The County of Linn, Iowa and Sierra Club v. Interstate Power and Light Company*, Civil Action No.: C15-0061; United States District Court for the Northern District of Iowa (September 2, 2015)] have been included in this permit solely to comply with the Consent Decree.

If and when the Consent Decree is terminated, the substantive requirements originating in and required by the Consent Decree and included in this permit, shall remain in full force and effect. As required by Consent Decree Paragraph 225, the requirements and limitations enumerated in the Consent Decree are permanently included in this federally enforceable permit and shall remain applicable requirements as that term is defined in 40 CFR §70.2.

The requirements found in permit Conditions "System-wide Consent Decree Requirements for IPL Facilities in Iowa" A. – E. were established upon the Interstate Power and Light (IPL) "system" in Iowa per the Consent Decree. "System" as used in this permit is defined as the Burlington, Dubuque, Lansing, M.L. Kapp, Ottumwa, Prairie Creek, Sixth Street, and Sutherland Generating Stations. The individual Generating Stations are defined by the Generating Station location and its units as listed in the following table:

<p>Burlington Generating Station Des Moines County</p> <ul style="list-style-type: none"> Unit 1 (212 MW, coal-fired) 	<p>Ottumwa Generating Station Wapello County</p> <ul style="list-style-type: none"> Unit 1 (726 MW, coal-fired)
<p>Dubuque Generating Station Dubuque County</p> <ul style="list-style-type: none"> Unit 1 (38 MW, fossil-fuel fired) Unit 5 (29 MW, fossil-fuel fired) Unit 6 (15 MW, fossil-fuel fired) 	<p>Sutherland Generating Station¹ Marshall County</p> <ul style="list-style-type: none"> Unit 1 (38 MW, fossil-fuel fired) Unit 2 (38 MW, fossil-fuel fired) Unit 3 (82 MW, fossil-fuel fired)
<p>Prairie Creek Generating Station Linn County</p> <ul style="list-style-type: none"> Boiler 1 (heat input of 245 MMBTU/hr, coal-fired) Boiler 2 (heat input of 304 MMBTU/hr, coal-fired) Unit 3 (50 MW, coal-fired) Unit 4 (149 MW, coal-fired) 	<p>Sixth Street Generating Station² Linn County</p> <ul style="list-style-type: none"> Unit 1 (10 MW, coal-fired) Unit 2 (18 MW, coal-fired) Unit 3 (17 MW, coal-fired) Unit 4 (17 MW, coal-fired) Unit 5 (32 MW, coal-fired)
<p>Lansing Generating Station³ Allamakee County</p> <ul style="list-style-type: none"> Unit 1 (15 MW, coal-fired) Unit 2 (12 MW, coal-fired) Unit 3 (38 MW, coal-fired) Unit 4 (275 MW, coal-fired) 	<p>Milton L. Kapp (M.L. Kapp) Generating⁴ Station Clinton County</p> <ul style="list-style-type: none"> Unit 1 (19 MW, coal-fired) Unit 2 (219 MW, coal-fired)

¹ Sutherland Unit 2 no longer operates and has been removed from the Title V operating permit.

² Sixth Street Generating Station no longer operates and its Title V permit has been rescinded.

³ Lansing Units 1, 2, and 3 no longer operate and the construction permit for each unit has been rescinded.

⁴ M.L. Kapp Unit 1 no longer operates and it has been removed from the Title V operating permit.

A. System-wide Emission Limits

- (1) As required by Consent Decree Paragraph 102, the IPL "system" in Iowa shall not exceed the following annual tonnage limits for NO_x:

Calendar Year	System-wide Annual NO _x Limit (tons/yr)
2015, 2016, and 2017	11,500
2018 and 2019	10,500

Calendar Year	System-wide Annual NO _x Limit (tons/yr)
2020	7,500
2021	7,250
2022 and continuing each calendar year thereafter	6,800

- (2) As required by Consent Decree Paragraph 126, the IPL "system" in Iowa shall not exceed the following annual tonnage limits for SO₂:

Calendar Year	System-wide Annual SO ₂ Limit (tons/yr)
2015	39,000
2016	23,500
2017 and 2018	14,100
2019 and 2020	12,000
2021	11,000
2022, 2023, 2024, and 2025	6,000
2026 and continuing each calendar year thereafter	3,250

B. Consent Decree Monitoring

- (1) As required by Consent Decree Paragraphs 103 and 104, the owner or operator shall demonstrate compliance with the Consent Decree NO_x limits using the following procedures:
- (a) For system-wide annual tonnage limits and the Prairie Creek annual tonnage limits:
 - (i) For all listed units except for Prairie Creek Generating Station Boilers 1 and 2: As required by Consent Decree Paragraph 104, the owner or operator shall use NO_x emission data obtained from a CEMS in accordance with the procedures specified in 40 CFR Part 75.
 - (ii) For Prairie Creek Generating Station Boilers 1 and 2: As required by Consent Decree Paragraph 114, the owner or operator shall calculate calendar-year NO_x mass emissions for inclusion in the system-wide annual tonnage limit [Condition 14.A.(1)] and the Prairie Creek annual tonnage limit by multiplying the NO_x rate, as determined from the last performed reference method test, by the respective heat input for each unit for that calendar year. The heat input shall be calculated by multiplying the amount of each fuel combusted by its respective gross heating value and summed for all fuels combusted in each boiler.
- (2) Per Consent Decree Paragraphs 127 and 128, the owner or operator shall demonstrate compliance with the Consent Decree SO₂ limits using the following procedures:
- (a) For system-wide annual tonnage limits the owner or operator shall use SO₂ emission data obtained from a CEMS in accordance with the procedures specified in 40 CFR Part 75. Once a unit is refueled the SO₂ emissions shall be calculated using a stack test emission factor or by using methods set forth in US EPA's AP-42 (*Compilation of Air Pollutant Emission Factors*) or by SO₂ emission data obtained from a CEMS in accordance with the procedures specified in 40 CFR Part 75.

C. Allowances

- (1) NO_x Allowances:
- (a) As required by Consent Decree Paragraph 43, "*NO_x Allowance*" is defined as an authorization to emit a specific amount of NO_x that is allocated or issued under an emission trading or marketable permit program of any kind established under the Clean Air Act (CAA) or applicable State Implementation Plan; provided, however, that with respect to any such program that first applies to emissions occurring after December 31, 2011, a "NO_x Allowance" shall include an allowance created and allocated under such program only for control periods starting on or after September 2, 2019 [the fourth anniversary of the date of entry of the Consent Decree].

- (b) As required by Consent Decree Paragraph 111, the owner or operator shall surrender or transfer to a non-profit third party selected by the owner or operator for surrender, all NO_x allowances required to be surrendered pursuant to Consent Decree Paragraph 107 by June 30 of the immediately following calendar year. If any NO_x allowances required to be surrendered are transferred directly to a non-profit third-party, the owner or operator shall include a description of such transfer in the next report submitted to EPA pursuant to Section XII (Periodic Reporting) of the Consent Decree. The report shall:
 - (i) Identify the non-profit recipient(s) of the NO_x allowances and list the serial numbers of the transferred NO_x allowances.
 - (ii) Include a certification by the third-party recipient(s) stating that the recipient(s) will not sell, trade, or otherwise exchange any of the NO_x allowances and will not use any of the NO_x allowances to meet any obligation imposed by any environmental law.
 - (iii) No later than the third periodic report due after the transfer of any NO_x allowances, the owner or operator shall include a statement that the third-party recipient(s) surrendered the NO_x allowances for permanent surrender to EPA in accordance with the provisions of Paragraph 112 of the Consent Decree within one (1) year after the owner or operator transferred the NO_x allowances to them. The owner or operator shall not have complied with the NO_x allowance surrender requirements of Consent Decree Paragraph 111 until all third-party recipient(s) have actually surrendered the transferred NO_x allowances to EPA.
 - (c) As required by Consent Decree Paragraph 112, for all allowances required to be surrendered, the owner or operator shall ensure that a NO_x allowance transfer request form is first submitted to EPA's Office of Air and Radiation's Clean Air Markets Division directing the transfer of such NO_x allowances to the EPA Enforcement Surrender Account or to any other EPA account that EPA may direct in writing. Such NO_x allowance transfer requests may be made in an electronic manner using the EPA's Clean Air Markets Division Business System or similar system provided by EPA. As part of submitting these transfer requests, the owner or operator shall ensure that the transfer of its NO_x allowances are irrevocably authorized and that the source and location of the NO_x allowances being surrendered are identified by name of account and any applicable serial or other identification numbers or station names.
 - (d) As required by Consent Decree Paragraph 105, the owner or operator shall not use NO_x allowances to comply with any requirement of the Consent Decree, including claiming compliance with any emission limitation required by the Consent Decree by using, tendering, or otherwise applying NO_x allowances to offset any excess emissions.
 - (e) As required by Consent Decree Paragraph 106, except as provided in Consent Decree Paragraphs 107 and 108, the owner or operator shall not sell, bank, trade, or transfer its interest in any NO_x allowances allocated to units in the System.
 - (f) As required by Consent Decree Paragraph 107, for each calendar year, the owner or operator shall surrender all NO_x allowances allocated to the units in the System for that calendar year that the owner or operator does not need to meet federal and/or state CAA regulatory requirements for System units.
 - (g) As required by Consent Decree Paragraph 108, the owner or operator is allowed to purchase or otherwise obtain NO_x allowances from another source for purposes of complying with federal and/or state CAA regulatory requirements to the extent otherwise allowed by law.
 - (h) As required by Consent Decree Paragraph 109, the owner or operator's use and surrender of NO_x Allowances are permanent and are not subject to any termination provision of the Consent Decree.
- (2) NO_x Super-Compliant Allowances
- (a) As required by Consent Decree Paragraph 110, notwithstanding Consent Decree Paragraphs 106 and 107, in each calendar year the owner or operator may sell, bank, use, trade, or transfer NO_x allowances allocated to the units in the System that are made available in that calendar year solely as a result of:
 - (i) The installation and operation of any NO_x air pollution control equipment that is not otherwise required under the Consent Decree and is not otherwise required by law;
 - (ii) The use of a selective catalytic reduction (SCR) prior to the date established in the Consent Decree; or

(iii) Achievement and maintenance of an emission rate below an applicable 30-day rolling average emission rate or 12-month rolling average emission rate for NO_x; provided the owner or operator is also in compliance for the calendar year with all emission limitations for NO_x set forth in the Consent Decree. The owner or operator shall timely report the generation of such Super-Compliant Allowances in accordance with Section XII (Periodic Reporting) of the Consent Decree.

(3) SO₂ Allowances:

- (a) As required by Consent Decree Paragraph 66, "*SO₂ Allowance*" is defined as an authorization to emit a specified amount of SO₂ that is allocated or issued under an emission trading or marketable permit program of any kind established under the CAA or applicable State Implementation Plan; provided, however, that with respect to any such program that first applies to emissions occurring after December 31, 2011, a "SO₂ Allowance" shall include an allowance created and allocated under such program only for control periods starting on or after September 2, 2019 [the fourth anniversary of the date of entry of the Consent Decree].
- (b) As required by Consent Decree Paragraph 135, the owner or operator shall surrender or transfer to a non-profit third party selected by the owner or operator for surrender, all SO₂ allowances required to be surrendered pursuant to Consent Decree Paragraph 131 by June 30 of the immediately following calendar year. If any SO₂ allowances required to be surrendered are transferred directly to a non-profit third-party, the owner or operator shall include a description of such transfer in the next report submitted to EPA pursuant to Section XII (Periodic Reporting) of the Consent Decree. The report shall:
- (i) Identify the non-profit recipient(s) of the SO₂ allowances and list the serial numbers of the transferred SO₂ allowances.
 - (ii) Include a certification by the third-party recipient(s) stating that the recipient(s) will not sell, trade, or otherwise exchange any of the SO₂ allowances and will not use any of the SO₂ allowances to meet any obligation imposed by any environmental law.
 - (iii) No later than the third periodic report due after the transfer of any SO₂ allowances, the owner or operator shall include a statement that the third-party recipient(s) surrendered the SO₂ allowances for permanent surrender to EPA in accordance with the provisions of Paragraph 136 of the Consent Decree within one (1) year after the owner or operator transferred the SO₂ allowances to them. The owner or operator shall not have complied with the SO₂ allowance surrender requirements of Consent Decree Paragraph 135 until all third-party recipient(s) have actually surrendered the transferred SO₂ allowances to EPA.
- (c) As required by Consent Decree Paragraph 136, for all allowances required to be surrendered, the owner or operator shall ensure that a SO₂ allowance transfer request form is first submitted to EPA's Office of Air and Radiation's Clean Air Markets Division directing the transfer of such SO₂ allowances to the EPA Enforcement Surrender Account or to any other EPA account that EPA may direct in writing. Such SO₂ allowance transfer requests may be made in an electronic manner using the EPA's Clean Air Markets Division Business System or similar system provided by EPA. As part of submitting these transfer requests, the owner or operator shall ensure that the transfer of its SO₂ allowances are irrevocably authorized and that the source and location of the SO₂ allowances being surrendered are identified by name of account and any applicable serial or other identification numbers or station names.
- (d) As required by Consent Decree Paragraph 129, the owner or operator shall not use SO₂ allowances to comply with any requirement of the Consent Decree, including claiming compliance with any emission limitation required by the Consent Decree by using, tendering, or otherwise applying SO₂ allowances to offset any excess emissions.
- (e) As required by Consent Decree Paragraph 130, except as provided in Consent Decree Paragraphs 131 and 132, the owner or operator shall not sell, bank, trade, or transfer its interest in any SO₂ allowances allocated to units in the System.
- (f) As required by Consent Decree Paragraph 131, for each calendar year, the owner or operator shall surrender all SO₂ allowances allocated to the units in the System for that calendar year that the owner or operator does not need to meet federal and/or state CAA regulatory requirements for System units.

- (g) As required by Consent Decree Paragraph 132, the owner or operator is allowed to purchase or otherwise obtain SO₂ allowances from another source for purposes of complying with federal and/or state CAA regulatory requirements to the extent otherwise allowed by law.
 - (h) As required by Consent Decree Paragraph 133, the owner or operator's use and surrender of SO₂ Allowances are permanent and are not subject to any termination provision of the Consent Decree.
- (4) SO₂ Super-Compliant Allowances
- (a) As required by Consent Decree Paragraph 134, notwithstanding Consent Decree Paragraphs 130 and 131, in each calendar year the owner or operator may sell, bank, use, trade, or transfer SO₂ allowances allocated to the units in the System that are made available in that calendar year solely as a result of:
 - (i) The installation and operation of any SO₂ air pollution control equipment that is not otherwise required under the Consent Decree and is not otherwise required by law;
 - (ii) The use of a dry flue gas desulfurization (DFGD) prior to the date established in the Consent Decree; or
 - (iii) Achievement and maintenance of an emission rate below an applicable 30-day rolling average emission rate or 12-month rolling average emission rate for SO₂;
 provided the owner or operator is also in compliance for the calendar year with all emission limitations for SO₂ set forth in the Consent Decree. The owner or operator shall timely report the generation of such Super-Compliant Allowances in accordance with Section XII (Periodic Reporting) of the Consent Decree.

D. Repowering Requirements

- (1) As defined in Paragraph 61 of the Consent Decree, "Repower" or "Repowered" means the removal and replacement of the Unit components such that the replaced unit generates electricity solely through the combustion of natural gas through the use of a combined cycle combustion turbine technology. Nothing herein shall prevent the reuse of any equipment at any existing unit or new emissions unit, provided that the owner or operator applies for, and obtains, all required permits, including, if applicable, a Prevention of Significant Deterioration (PSD) or Nonattainment New Source Review (NSR) permit.
- (2) As defined in Paragraph 62 of the Consent Decree, "Retire," "Retired," or "Retirement" means to permanently shut down a unit such that the unit cannot physically or legally burn fossil fuel, and to comply with applicable state and federal requirements for permanently ceasing operation of the unit as a fossil fuel-fired electric generating unit, including removing the unit from Iowa's air emissions inventory, and amending all applicable permits so as to reflect the permanent shutdown status of such unit. The owner or operator can choose to not retire and to continue to operate such a unit only if is "Refueled" or "Repowered" within the meaning of the Consent Decree, and the owner or operator obtains any and all required CAA permits for the "Refueled" or "Repowered" unit, including but not limited to an appropriate permit pursuant to CAA Subchapter I, Parts C and D, and pursuant to the applicable Iowa state implementation plan (SIP) provisions implementing CAA Subchapter I.
- (3) The owner or operator has ceased operations at Lansing Unit 1, Lansing Unit 2, Lansing Unit 3, M.L. Kapp Unit 1, Sutherland Unit 2, Sixth Street Unit 1, Sixth Street Unit 2, Sixth Street Unit 3, Sixth Street Unit 4, and Sixth Street Unit 5. In accordance with Paragraph 78 of the Consent Decree, the permanent "Retirement" of these units became an enforceable obligation such that the owner or operator may only operate if:
 - (i) It is "Repowered" per Condition 14.D.(1) and
 - (ii) The owner or operator obtains any and all required CAA permit(s) for the repowered unit including but not limited to an appropriate permit pursuant to CAA Subchapter I, Parts C and D, and pursuant to the applicable Iowa State Implementation Plan (SIP) provisions implementing CAA Subpart I.

E. Post Consent Decree Reporting

As required by 567 IAC 25.1(6), the owner or operator shall provide quarterly reports to the Department no later than thirty (30) calendar days following the end of the calendar quarter on forms provided by the Department for each CEMS. All periods of recorded emissions in excess of applicable standards, the results of all calibrations and zero checks and performance evaluations or source upsets and any apparent reasons for these malfunctions and upsets shall be included in the report. In addition, the owner or operator shall include in the quarterly report all periods of monitor malfunction, maintenance, and/or repair procedures performed.

Upon the termination of the Consent Decree, the owner or operator shall submit periodic reports as required by Title V to demonstrate compliance with all Consent Decree requirements contained within Conditions 1 (Emission Limits), 5 (Operating Requirements with Associated Monitoring and Recordkeeping), and 14 (System-wide Consent Decree Requirements for IPL Facilities in Iowa) of this permit. At a minimum, the information in the reports shall include:

- (1) All information necessary to determine compliance during the reporting period with:
 - (a) All applicable Prairie Creek annual tonnage limitations;
 - (b) All applicable system-wide annual tonnage limitations;
 - (c) The obligation to monitor SO₂, NO_x, and PM emissions; and
 - (d) The obligation to surrender NO_x and SO₂ allowances.
- (2) Emission reporting and allowance accounting information necessary to determine super-compliant NO_x and SO₂ allowances that the owner or operator claims to have generated in accordance with Consent Decree Paragraphs 110 and 134 through control of emissions beyond the requirements of the Consent Decree.

V. APPENDIX B – Applicable Federal Standards

[40 CFR part 60 Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units](#)

[40 CFR part 60 Subpart Y - Standards of Performance for Coal Preparation Plants](#)

[40 CFR part 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Engines](#)

A listing of all the promulgated NSPS rules, EPA Region 7 staff contact information (for questions pertaining to the rule), compliance assistance links and a link to each NSPS can be found at the link below:

<http://www.epa.gov/caa-permitting/new-source-performance-standards-region-7>

[40 CFR 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines](#)

[40 CFR 63 Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters](#)

[40 CFR 63 Subpart UUUUU – National Emission Standards for Hazardous Air Pollutants from Coal and Oil-fired Electric Utility Steam Generating Units \(EGU-MATS\)](#)

A listing of all the promulgated MACT rules, EPA Region 7 staff contact information (for questions pertaining to the rule), compliance assistance links and a link to each NSPS can be found at the link below:

<http://www.epa.gov/caa-permitting/maximum-achievable-control-technology-standards-region-7>

V. APPENDIX C – Opacity Monitoring Summary

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit listed in Opacity Monitoring Table 1 is operating with product and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity > 20% is observed from emission unit(s) listed in Opacity Monitoring Table 1, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Opacity Monitoring Table 1.

EP	EU
100	503-100
	504-100
	100-100B, C & D
104	501-100
	502-100
	100-100E
120	404-405
	405-406
121	522-521
	523-521
122	524-521
123	525-521
500	500
600	600

Authority for Requirement: 567 IAC 22.108(14)

V. APPENDIX D – Stack Testing Summary

EP	EU Description	Pollutant	Compliance Methodology	Completion Deadline	Test Method
001	Boilers 1 & 2	Filterable PM – Federal	CEMS ^{1,2}	Continuous	40 CFR 60, Appendix A, Method 5
		Opacity	COMS ^{1,2}	Continuous	40 CFR 60, Appendix A, Method 9
		SO ₂	CEMS ^{1,2}	Continuous	40 CFR 60, Appendix A, Method 6C
		NO _x	Stack Test	Every 4 Operating Quarters ³	40 CFR 60, Appendix A, Method 7E
		CO	CEMS ^{1,2}	Continuous	40 CFR 60, Appendix A, Method 10
003	Unit 3	Filterable PM – Federal	CEMS ^{1,2}	Continuous	40 CFR 60, Appendix A, Method 5
		Opacity	COMS ^{1,2}	Continuous	40 CFR 60, Appendix A, Method 9
		SO ₂	CEMS ^{1,2}	Continuous	40 CFR 60, Appendix A, Method 6C
		NO _x	CEMS ^{1,2}	Continuous	40 CFR 60, Appendix A, Method 7E
		CO	CEMS ^{1,2}	Continuous	40 CFR 60, Appendix A, Method 10
015	Unit 4	NO _x	CEMS ^{1,2}	Continuous	40 CFR 60, Appendix A, Method 7E
500	Boiler 5	NO _x	CEMS ¹	Continuous	40 CFR 60, Appendix A, Method 7E
600	Boiler 6	NO _x	CEMS ¹	Continuous	40 CFR 60, Appendix A, Method 7E

¹ CEMS = Continuous Emission Monitoring System and COMS = Continuous Opacity Monitoring System.

² See "Compliance Monitoring Systems (CMS)" conditions for all CEMS and COMS requirements.

³ As required by Consent Decree Paragraphs 113 and 114, the owner or operator shall conduct a stack test on each boiler every four (4) operating quarters. An "operating quarter" is any calendar quarter during which a boiler operates one hundred sixty-eight (168) hours or more. If testing is unable to be completed in the fourth operating quarter, due to unforeseen circumstances, it shall be completed within seven hundred twenty (720) unit operating hours once the boiler returns to service. Each stack test shall meet the following criteria:

- EPA Method 7 or alternative method approved by EPA or the Department,
- Three (3) separate runs performed under representative operating conditions, not including periods of startup, shutdown, or malfunction (SSM), and
- The results of each test shall be submitted to EPA region VII, the Department, and Linn County within sixty (60) days of the completion of each test.

Authority for Requirement: 567 IAC 22.108(3) (EP's 001, 003, 015, 500 and 600)

Authority for Requirement: DNR PSD Permit 97-A-998-P5; LCPH ATI 6838 / PTO 6561-R2 (EP 001)

Authority for Requirement: DNR PSD Permit 08-A-181-P2; LCPH ATI 6551 / PTO 6512-R2 (EP003)

Authority for Requirement: LCPH ATI 6552 / PTO 6513-R2 (EP 015)

Authority for Requirement: DNR PSD Permit 97-A-999-S1; LCPH ATI 3696 / PTO 3957 (EP 500)

Authority for Requirement: LCPH ATI 6379 / PTO 6421 (EP 600)

V. APPENDIX E – Facility O&M Plans Summary

The following emission units are subject to a facility O&M plan:

EP	EU ID	Description
100	503-100	Boiler 3 Coal Storage Bunker
	504-100	Boiler 4 Coal Storage Bunker
	100-100B	Coal Belt Dust Handling Pick-ups for Bunkers 3 & 4
	100-100C	Coal Belt Dust Handling Pick-ups for Bunkers 3 & 4
	100-100D	Coal Belt Dust Handling Pick-ups for Bunkers 3 & 4
104	501-100	#1 Coal Storage Bunker
	502-100	#2 Coal Storage Bunker
	100-100E	Dust Pick-ups for Bunkers 1 & 2

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

V. APPENDIX F - Acid Rain Phase II Permit

V. APPENDIX G - CSAPR Conditions

Transport Rule (TR) Trading Program Title V Requirements

Description of TR Monitoring Provisions

The TR subject unit(s), and the unit-specific monitoring provisions at this source, are identified in the following table(s). These unit(s) are subject to the requirements for the TR NO_x Annual Trading Program, TR NO_x Ozone Season Trading Program and TR SO₂ Group 1 Trading Program.

Unit ID: 3 (ORIS Code: 1073) Interstate Power and Light (Alliant Energy Co.) - Prairie Creek					
Parameter	Continuous emission monitoring system or systems (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 excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to 40 CFR 75.19	EPA-approved alternative monitoring system requirements pursuant to 40 CFR part 75, subpart E
SO ₂	X		-----		
NO _x	X	-----			
Heat input	X		-----		

Unit ID: 4 (ORIS Code: 1073) Interstate Power and Light (Alliant Energy Co.) - Prairie Creek					
Parameter	Continuous emission monitoring system or systems (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 excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to 40 CFR 75.19	EPA-approved alternative monitoring system requirements pursuant to 40 CFR part 75, subpart E
SO ₂		X	-----		
NO _x	X	-----			

Heat input	X		-----		

1. The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR 97.430 through 97.435 (TR NO_x Annual Trading Program), 97.530 through 97.535 (TR NO_x Ozone Season Trading Program), and 97.630 through 97.635 (TR SO₂ Group 1 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable TR trading programs.
2. Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA’s website at <http://www.epa.gov/airmarkets/emissions/monitoringplans.html>.
3. Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR part 75, subpart E and 40 CFR 75.66 and 97.435 (TR NO_x Annual Trading Program), 97.535 (TR NO_x Ozone Season Trading Program) and/or 97.635 (TR SO₂ Group 1 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, recordkeeping, or reporting requirement under 40 CFR 97.430 through 97.434 (TR NO_x Annual Trading Program), 97.530 through 97.534 (TR NO_x Ozone Season Trading Program) and/or 97.630 through 97.634 (TR SO₂ Group 1 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.435 (TR NO_x Annual Trading Program), 97.535 (TR NO_x Ozone Season Trading Program) and/or 97.635 (TR SO₂ Group 1 Trading Program). The Administrator’s response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on EPA’s website at <http://www.epa.gov/airmarkets/emissions/petitions.html>.
5. The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR 97.430 through 97.434 (TR NO_x Annual Trading Program), 97.530 through 97.534 (TR NO_x Ozone Season Trading Program) and 97.630 through 97.634 (TR SO₂ Group 1 Trading Program), and therefore minor permit modification procedures, in accordance with 40 CFR 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B), may be used to add to or change this unit’s monitoring system description.

TR NO_x Annual Trading Program requirements (40 CFR 97.406)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.413 through 97.418.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

- (1) The owners and operators, and the designated representative, of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.431 (initial monitoring system certification and recertification

procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

- (2) The emissions data determined in accordance with 40 CFR 97.430 through 97.435 shall be used to calculate allocations of TR NO_x Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the 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 shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_x emissions requirements.

- (1) TR NO_x Annual emissions limitation.

- (i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall hold, in the source's compliance account, TR NO_x Annual allowances available for deduction for such control period under 40 CFR 97.424(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.
- (ii). If 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 (c)(1)(i) above, then:
 - (A). The owners and operators of the source and each TR NO_x Annual unit at the source shall hold the TR NO_x Annual allowances required for deduction under 40 CFR 97.424(d); and
 - (B). The owners and operators of the source and each TR NO_x Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other 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 shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.

- (2) TR NO_x Annual assurance provisions.

- (i). 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 exceed the state assurance level, then the owners and operators of such sources and units 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, shall 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 97.425(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 97.425(b), of multiplying— (A) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated

- representative's share of such 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 for such control period exceed the state assurance level.
- (ii). The owners and operators shall hold the TR NO_x Annual allowances required under paragraph (c)(2)(i) above, as of midnight of 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.
 - (iii). Total NO_x emissions from all TR NO_x Annual units at TR NO_x Annual sources in the 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 97.410(a) and the state's variability limit under 40 CFR 97.410(b).
 - (iv). 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 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 during a control period exceeds the common designated representative's assurance level.
 - (v). To the extent the owners and operators fail to hold TR NO_x Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
 - (A). The owners and operators shall 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 owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.
- (3) Compliance periods.
- (i). A TR NO_x Annual unit shall be subject to the requirements under paragraph (c)(1) 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 97.430(b) and for each control period thereafter.
 - (ii). A TR NO_x Annual unit shall be subject to the requirements under paragraph (c)(2) 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 97.430(b) and for each control period thereafter.
- (4) Vintage of allowances held for compliance.
- (i). A TR NO_x Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) 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.
 - (ii). A TR NO_x Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) 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.
- (5) 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.

- (6) 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:
- (i). Such authorization shall only be used in accordance with the TR NO_x Annual Trading Program; and
 - (ii). 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.
- (7) Property right. A TR NO_x Annual allowance does not constitute a property right.

(d) Title V permit revision requirements.

- (1) 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.
- (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 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 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units 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 97.406(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

- (1) Unless otherwise provided, the owners and operators of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall 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.
 - (i). The certificate of representation under 40 CFR 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 97.416 changing the designated representative.
 - (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart AAAAA.
 - (iii). 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.
- (2) The designated representative of a TR NO_x Annual source and each TR NO_x Annual unit at the source shall make all submissions required under the TR NO_x Annual Trading Program, except as provided in 40 CFR 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.

- (1) 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.
- (2) 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.

No provision of the TR NO_x Annual Trading Program or exemption under 40 CFR 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NO_x Annual source or TR NO_x Annual unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

TR NO_x Ozone Season Trading Program Requirements (40 CFR 97.506)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.513 through 97.518.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

- (1) The owners and operators, and the designated representative, of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.530 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.531 (initial monitoring system certification and recertification procedures), 97.532 (monitoring system out-of-control periods), 97.533 (notifications concerning monitoring), 97.534 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.535 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
- (2) The emissions data determined in accordance with 40 CFR 97.530 through 97.535 shall be used to calculate allocations of TR NO_x Ozone Season allowances under 40 CFR 97.511(a)(2) and (b) and 97.512 and to determine compliance with the TR NO_x Ozone Season 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 shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.530 through 97.535 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_x emissions requirements.

- (1) TR NO_x Ozone Season emissions limitation.
 - (i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, TR NO_x Ozone Season allowances available for deduction for such control period under 40 CFR 97.524(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Ozone Season units at the source.

- (ii). If total NO_x emissions during a control period in a given year from the TR NO_x Ozone Season units at a TR NO_x Ozone Season source are in excess of the TR NO_x Ozone Season emissions limitation set forth in paragraph (c)(1)(i) above, then:
 - (A). The owners and operators of the source and each TR NO_x Ozone Season unit at the source shall hold the TR NO_x Ozone Season allowances required for deduction under 40 CFR 97.524(d); and
 - (B). The owners and operators of the source and each TR NO_x Ozone Season unit at the source shall pay any fine, penalty, or assessment or comply with any other 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 shall constitute a separate violation of 40 CFR part 97, subpart BBBBBB and the Clean Air Act.
- (2) TR NO_x Ozone Season assurance provisions.
 - (i). If total NO_x emissions during a control period in a given year from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state exceed the state assurance level, then the owners and operators of such sources and units 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, shall hold (in the assurance account established for the owners and operators of such group) TR NO_x Ozone Season allowances available for deduction for such control period under 40 CFR 97.525(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 97.525(b), of multiplying—
 - (A). The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such 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 Ozone Season units at TR NO_x Ozone Season sources in the state for such control period exceed the state assurance level.
 - (ii). The owners and operators shall hold the TR NO_x Ozone Season allowances required under paragraph (c)(2)(i) above, as of midnight of 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.
 - (iii). Total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the 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 Ozone Season trading budget under 40 CFR 97.510(a) and the state's variability limit under 40 CFR 97.510(b).
 - (iv). It shall not be a violation of 40 CFR part 97, subpart BBBBBB or of the Clean Air Act if total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the 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

Ozone Season units at TR NO_x Ozone Season sources in the state during a control period exceeds the common designated representative's assurance level.

- (v). To the extent the owners and operators fail to hold TR NO_x Ozone Season allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
 - (A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
 - (B). Each TR NO_x Ozone Season allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBB and the Clean Air Act.

(3) Compliance periods.

- (i). A TR NO_x Ozone Season unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of May 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.
- (ii). A TR NO_x Ozone Season unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

- (i). A TR NO_x Ozone Season allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR NO_x Ozone Season allowance that was allocated for such control period or a control period in a prior year.
- (ii). A TR NO_x Ozone Season allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NO_x Ozone Season 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.

(5) Allowance Management System requirements. Each TR NO_x Ozone Season 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 BBBBB.

(6) Limited authorization. A TR NO_x Ozone Season 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:

- (i). Such authorization shall only be used in accordance with the TR NO_x Ozone Season Trading Program; and
- (ii). Notwithstanding any other provision of 40 CFR part 97, subpart BBBBB, 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.

(7) Property right. A TR NO_x Ozone Season allowance does not constitute a property right.

(d) Title V permit revision requirements.

- (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_x Ozone Season allowances in accordance with 40 CFR part 97, subpart BBBBB.
- (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.530 through 97.535, 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 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units 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 97.506(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

- (1) Unless otherwise provided, the owners and operators of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall 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.
 - (i). The certificate of representation under 40 CFR 97.516 for the designated representative for the source and each TR NO_x Ozone Season 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 97.516 changing the designated representative.
 - (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart BBBB.
 - (iii). 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 Ozone Season Trading Program.
- (2) The designated representative of a TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall make all submissions required under the TR NO_x Ozone Season Trading Program, except as provided in 40 CFR 97.518. 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.

- (1) Any provision of the TR NO_x Ozone Season Trading Program that applies to a TR NO_x Ozone Season source or the designated representative of a TR NO_x Ozone Season source shall also apply to the owners and operators of such source and of the TR NO_x Ozone Season units at the source.
- (2) Any provision of the TR NO_x Ozone Season Trading Program that applies to a TR NO_x Ozone Season unit or the designated representative of a TR NO_x Ozone Season unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR NO_x Ozone Season Trading Program or exemption under 40 CFR 97.505 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NO_x Ozone Season source or TR NO_x Ozone Season unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

TR SO₂ Group 1 Trading Program requirements (40 CFR 97.606)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.613 through 97.618.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

- (1) The owners and operators, and the designated representative, of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.630 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.631 (initial monitoring system certification and recertification procedures), 97.632 (monitoring system out-of-control periods), 97.633 (notifications concerning monitoring), 97.634 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.635 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
- (2) The emissions data determined in accordance with 40 CFR 97.630 through 97.635 shall be used to calculate allocations of TR SO₂ Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the TR SO₂ Group 1 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 shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) SO₂ emissions requirements.

- (1) TR SO₂ Group 1 emissions limitation.
 - (i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall hold, in the source's compliance account, TR SO₂ Group 1 allowances available for deduction for such control period under 40 CFR 97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all TR SO₂ Group 1 units at the source.
 - (ii). If total SO₂ emissions during a control period in a given year from the TR SO₂ Group 1 units at a TR SO₂ Group 1 source are in excess of the TR SO₂ Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:
 - (A). The owners and operators of the source and each TR SO₂ Group 1 unit at the source shall hold the TR SO₂ Group 1 allowances required for deduction under 40 CFR 97.624(d); and
 - (B). The owners and operators of the source and each TR SO₂ Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other 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 shall constitute a separate violation 40 CFR part 97, subpart CCCCC and the Clean Air Act.
- (2) TR SO₂ Group 1 assurance provisions.
 - (i). If total SO₂ emissions during a control period in a given year from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state exceed the state assurance level, then the owners and operators of such sources and units 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 SO₂ emissions during such control period exceeds the common designated representative's assurance level for the state

and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR SO₂ Group 1 allowances available for deduction for such control period under 40 CFR 97.625(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 97.625(b), of multiplying—

- (A). The quotient of the amount by which the common designated representative's share of such SO₂ emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such SO₂ emissions exceeds the respective common designated representative's assurance level; and
 - (B). The amount by which total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state for such control period exceed the state assurance level.
- (ii). The owners and operators shall hold the TR SO₂ Group 1 allowances required under paragraph (c)(2)(i) above, as of midnight of 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.
 - (iii). Total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state during a control period in a given year exceed the state assurance level if such total SO₂ emissions exceed the sum, for such control period, of the state SO₂ Group 1 trading budget under 40 CFR 97.610(a) and the state's variability limit under 40 CFR 97.610(b).
 - (iv). It shall not be a violation of 40 CFR part 97, subpart CCCCC or of the Clean Air Act if total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total SO₂ emissions from the TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state during a control period exceeds the common designated representative's assurance level.
 - (v). To the extent the owners and operators fail to hold TR SO₂ Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
 - (A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
 - (B). Each TR SO₂ Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart CCCCC and the Clean Air Act.
- (3) Compliance periods.
- (i). A TR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(1) 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 97.630(b) and for each control period thereafter.
 - (ii). A TR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(2) 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 97.630(b) and for each control period thereafter.

- (4) Vintage of allowances held for compliance.
 - (i). A TR SO₂ Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR SO₂ Group 1 allowance that was allocated for such control period or a control period in a prior year.
 - (ii). A TR SO₂ Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR SO₂ Group 1 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.
- (5) Allowance Management System requirements. Each TR SO₂ Group 1 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 CCCCC.
- (6) Limited authorization. A TR SO₂ Group 1 allowance is a limited authorization to emit one ton of SO₂ during the control period in one year. Such authorization is limited in its use and duration as follows:
 - (i). Such authorization shall only be used in accordance with the TR SO₂ Group 1 Trading Program; and
 - (ii). Notwithstanding any other provision of 40 CFR part 97, subpart CCCCC, 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.
- (7) Property right. A TR SO₂ Group 1 allowance does not constitute a property right.

(d) Title V permit revision requirements.

- (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR SO₂ Group 1 allowances in accordance with 40 CFR part 97, subpart CCCCC.
- (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.630 through 97.635, 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 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units 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 97.606(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

- (1) Unless otherwise provided, the owners and operators of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall 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.
 - (i). The certificate of representation under 40 CFR 97.616 for the designated representative for the source and each TR SO₂ Group 1 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 97.616 changing the designated representative.

- (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart CCCCC.
 - (iii). 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 SO₂ Group 1 Trading Program.
- (2) The designated representative of a TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall make all submissions required under the TR SO₂ Group 1 Trading Program, except as provided in 40 CFR 97.618. 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.

- (1) Any provision of the TR SO₂ Group 1 Trading Program that applies to a TR SO₂ Group 1 source or the designated representative of a TR SO₂ Group 1 source shall also apply to the owners and operators of such source and of the TR SO₂ Group 1 units at the source.
- (2) Any provision of the TR SO₂ Group 1 Trading Program that applies to a TR SO₂ Group 1 unit or the designated representative of a TR SO₂ Group 1 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR SO₂ Group 1 Trading Program or exemption under 40 CFR 97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR SO₂ Group 1 source or TR SO₂ Group 1 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

V. APPENDIX H - DNR Administrative Consent Order 97-AQ-20

V. APPENDIX I - Consent Decree United States of America and The State of Iowa, and The County of Linn, Iowa and Sierra Club v. Interstate Power and Light Company, Civil Action No.: C15-0061; United States District Court for the Northern District of Iowa (September 2, 2015)]