Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: IPL –Marshalltown Generating Station
Facility Location: 2115 East Nevada Street, Marshalltown, IA 50158
Air Quality Operating Permit Number: 98-TV-010R3
Expiration Date: May 8, 2023
Permit Renewal Application Deadline: November 8, 2022

EIQ Number: 92-6250
Facility File Number: 64-01-012

Responsible Official
Name: Craig Crawford
Title: Plant Manger
Mailing Address: 2115 East Nevada Street, Marshalltown, IA 50158
Phone #: 563-587-4560

Permit Contact Person for the Facility
Name: George Kueny
Title: Senior Environment and Safety Specialist
Mailing Address:
2115 East Nevada Street, Marshalltown, IA 50158
Phone #: 641-844-2603

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

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Lori Hanson, Supervisor of Operating Permits Section Date

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Abbreviations

acfm.....actual cubic feet per minute
CFR.....Code of Federal Regulation
CE .....control equipment
CEM.....continuous emission monitor
°F.....degrees Fahrenheit
EIQ.....emissions inventory questionnaire
EP.....emission point
EU .....emission unit
gr./dscf .....grains per dry standard cubic foot
gr./100 cf.....grains per one hundred cubic feet
IAC.....Iowa Administrative Code
IDNR.....Iowa Department of Natural Resources
MVAC.....motor vehicle air conditioner
NAICS.....North American Industry Classification system
NSPS.....new source performance standard
ppmv .....parts per million by volume
lb./hr.....pounds per hour
lb./MMBtu .....pounds per million British thermal units
SCC.....Source Classification Codes
scfm.....standard cubic feet per minute
SIC .....Standard Industrial Classification
TPY.....tons per year
USEPA.....United States Environmental Protection Agency

<u>Pollutants</u>
PM.....particulate matter
PM_{10}.....particulate matter ten microns or less in diameter
SO_2.....sulfur dioxide
NO_x .....nitrogen oxides
VOC.....volatile organic compound
CO.....carbon monoxide
HAP.....hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: IPL - Marshalltown Generating Station
Permit Number: 98-TV-010R3

Facility Description: Electric Services (SIC 4911)

Equipment List

A. Combustion Turbines

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP023	EU011	Combustion Turbine 1A	77-A-229-S5
EP024	EU012	Combustion Turbine 1B	99-A-327-S3
EP025	EU013	Combustion Turbine 2A	77-A-230-S4
EP026	EU014	Combustion Turbine 2B	99-A-328-S3
EP027	EU015	Combustion Turbine 3A	77-A-231-S4
EP028	EU016	Combustion Turbine 3B	99-A-329-S3
EP 401	EU 401	Combustion Turbine #1	13-A-499-P3
EP 402	EU 402	Combustion Turbine #2	13-A-500-P3

B. Fugitive Sources

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP001	EU004	Coal and Petroleum Coke Pile	N/A
EP247	EU247	Ecostone Pile	N/A

C. Miscellaneous Sources

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP 403	EU 403	Auxiliary Boiler (52 MMBtu/hr)	13-A-501-P1
EP 404a	EU 404	MGS Dew Point Heater #1 (13.32 MMBtu/hr)	13-A-502-P1
EP 404b			15-A-463-P
EP 404c			15-A-464-P
EP 405	EU 405	Gas Distribution Dew Point Heater #2 (3 MMBtu/hr)	13-A-503-P2
EP 406	EU 406	Cooling Tower	13-A-504-P1
EP 407	EU 407	Emergency Diesel Generator (2000 kW)	13-A-505-P1
EP 408	EU 408	Fire Pump Engine (305 HP)	13-A-506-P2

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP 409	EU 409	Circuit Breakers (3-161 kV and 2-18 kV)	13-A-507-P1
EP 410	EU 410	Marshalltown CT Dew Point Heater #3 (4.5 MMBtu/hr)	13-A-508-P2
EP 411	EU 411	Fire Pump Fuel Oil Tank #1 (350 gallons)	13-A-509-P2
EP 412	EU 412	EDG Fuel Oil Tank #2 (3500 gallons)	13-A-510-P1

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU036A	Waste Oil Tank (90 gallons)
EU036B	Waste Oil Tank (90 gallons)
EU037A	Waste Oil Tank (90 gallons)
EU037B	Waste Oil Tank (90 gallons)
EU038A	Waste Oil Tank (90 gallons)
EU038B	Waste Oil Tank (90 gallons)
EU074	Space Heater – Reddy/Portable/Kerosene (0.055 MMBtu/hr)
EU250	Space Heater – Portable Kerosene (0.35 MMBtu/hr)
EU251	Space Heater – Portable Kerosene (0.35 MMBtu/hr)
SHtrA-01	Natural Gas Space Heater (0.105 MMBtu/hr)
SHtrA-02	Natural Gas Space Heater (0.105 MMBtu/hr)
SHtrA-03	Natural Gas Space Heater (0.105 MMBtu/hr)
SHtrA-04	Natural Gas Space Heater (0.105 MMBtu/hr)
SHtrA-05	Natural Gas Space Heater (0.105 MMBtu/hr)
SHtrA-06	Natural Gas Space Heater (0.105 MMBtu/hr)
SHtrA-07	Natural Gas Space Heater (0.105 MMBtu/hr)
SHtrA-08	Natural Gas Space Heater (0.105 MMBtu/hr)
SHtrA-09	Natural Gas Space Heater (0.105 MMBtu/hr)
SHtrA-10	Natural Gas Space Heater (0.105 MMBtu/hr)
SHtrA-11	Natural Gas Space Heater (0.105 MMBtu/hr)
SHtrA-12	Natural Gas Space Heater (0.105 MMBtu/hr)
SHtrA-13	Natural Gas Space Heater (0.105 MMBtu/hr)
SHtrA-14	Natural Gas Space Heater (0.105 MMBtu/hr)
SHtrB-01	Natural Gas Space Heater (0.350 MMBtu/hr)
SHtrB-02	Natural Gas Space Heater (0.350 MMBtu/hr)
SHtrB-03	Natural Gas Space Heater (0.350 MMBtu/hr)
SHtrB-04	Natural Gas Space Heater (0.350 MMBtu/hr)
SHtrB-05	Natural Gas Space Heater (0.350 MMBtu/hr)
SHtrB-06	Natural Gas Space Heater (0.350 MMBtu/hr)
SHtrB-07	Natural Gas Space Heater (0.350 MMBtu/hr)
SHtrB-08	Natural Gas Space Heater (0.350 MMBtu/hr)
SHtrB-09	Natural Gas Space Heater (0.350 MMBtu/hr)
SHtrB-10	Natural Gas Space Heater (0.350 MMBtu/hr)

SHtrB-11	Natural Gas Space Heater (0.350 MMBtu/hr)
SHtrG-01	Natural Gas Space Heater (0.060 MMBtu/hr)
SHtrG-02	Natural Gas Space Heater (0.060 MMBtu/hr)
SHtrG-03	Natural Gas Space Heater (0.060 MMBtu/hr)
SHtrG-04	Natural Gas Space Heater (0.060 MMBtu/hr)
SHmau-01	Natural Gas Space Heater (4.474 MMBtu/hr)
SHmau-02	Natural Gas Space Heater (4.474 MMBtu/hr)
SHmau-03	Natural Gas Space Heater (4.474 MMBtu/hr)
SHmau-04	Natural Gas Space Heater (4.474 MMBtu/hr)
SHmau-05	Natural Gas Space Heater (0.539 MMBtu/hr)
SHtrTA-01	Natural Gas Space Heater (2.0 MMBtu/hr)
EU 413	MGS Gasoline Tank (500 gal)
EU 414	MGS Diesel Fuel Tank (500 gal)

II. Plant-Wide Conditions

Facility Name: IPL – Marshalltown Generating Station
Permit Number: 98-TV-010R3

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

Permit Duration

The term of this permit is: 5 years
Commencing on: May 9, 2018
Ending on: May 8, 2023

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): 40% opacity
Authority for Requirement: 567 IAC 23.3(2)"d"

Sulfur Dioxide (SO_2): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

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"

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, fertilizer 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"

System-wide Consent Decree Requirements

Interstate Power and Light Company (IPL) entered into a 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] on September 15, 2015. The permittee shall comply with all applicable system-wide requirements in Appendix B – System-wide Consent Decree Requirements for IPL Facilities in Iowa.

Authority for Requirement: Iowa DNR Construction Permit 75-A-014-P12 (Issued to IPL – Lansing Generating Station and which contains the system-wide requirements. Lansing Generating Station is part of the "system" as defined in the construction permit)
567 IAC 22.108(1)

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40 CFR Part 60 Subpart A Requirements
This facility is an affected source and these General Provisions apply to the facility. The affected units are EU403, EU404, EU011 - EU016, EU407, EU408, EU401, and EU402.
See Appendix for a link to the Standard.
Authority for Requirements: 40 CFR 60 Subpart A
567 IAC 23.1(2)

40 CFR Part 60 Subpart Dc Requirements
This facility is subject to Standards of Performance for Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. The affected units are 403 and 404.
See Appendix for a link to the Standard.
Authority for Requirement: 40 CFR 60 Subpart Dc
567 IAC 23.1(2)"lll"

40 CFR Part 60 Subpart GG Requirements
This facility is subject to Standards of Performance for Stationary Gas Turbines – 40 CFR 60 subpart GG and the affected units are EU011 through EU016 (Combustion Turbines 1A, 1B, 2A, 2B, 3A, and 3B). Applicable subpart GG requirements are incorporated into the Emission-Point Specific Conditions Section.
See Appendix for a link to the Standard.
Authority for Requirement: 40 CFR 60 Subpart GG
567 IAC 23.1(2)"aa"

40 CFR Part 60 Subpart IIII
This facility is subject to Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, NSPS Subpart IIII. The affected units are 407 and 408.
See Appendix for a link to the Standard.
Authority for Requirement: 40 CFR 60 Subpart IIII
567 IAC 23.1(2)"yyy"

40 CFR Part 60 Subpart KKKK Requirements
This facility is subject to NSPS subpart KKKK, New Source Performance Standards for Stationary Combustion Turbines, 40 CFR 60.4300. The affected units are 401 and 402.
See Appendix for a link to the Standard.
Authority for Requirement: 40 CFR 60 Subpart KKKK
567 IAC 23.1(2)"aaaa"

40 CFR Part 60 Subpart TTTT Requirements
This facility is subject to NSPS subpart TTTT, New Source Performance Standards for Greenhouse Gas Emissions for Electric Generating Units, 40 CFR 60.5508. The affected units are 401 and 402.
See Appendix for a link to the Standard.
Authority for Requirement: 40 CFR 60 Subpart TTTT

40 CFR Part 63 Subpart A Requirements
This facility is an affected source and these *General Provisions* apply to the facility. The affected units are EU407 and EU408.
See Appendix A for a link to the Standard.
Authority for Requirements: 40 CFR 63 Subpart A
567 IAC 23.1(4)

40 CFR Part 63 Subpart ZZZZ
Emission unit 407, Emergency Diesel Generator and 408, Fire Pump Engine are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart ZZZZ - Stationary Reciprocating Internal Combustion Engines (40 CFR §63.6580 through 40 CFR §63.6675).
See Appendix for a link to the Standard.
Authority for Requirement: 40 CFR 63 Subpart ZZZZ
567 IAC 23.1(4)"cz”

III. Emission Point-Specific Conditions

Facility Name: IPL – Marshalltown Generating Station
Permit Number: 98-TV-010R3

Emission Point ID Number: See Table: Combustion Turbines

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Combustion Turbines

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Table: Combustion Turbines

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Fuel	Rated Capacity (MMBtu/hr)	Construction Permit Number
EP023	EU011	Combustion Turbine 1A Equipped with Inlet Air Foggers	Natural Gas	402	77-A-229-S5
EP024	EU012	Combustion Turbine 1B Equipped with Inlet Air Foggers	Natural Gas	402	99-A-327-S3
EP025	EU013	Combustion Turbine 2A Equipped with Inlet Air Foggers	Natural Gas	402	77-A-230-S4
EP026	EU014	Combustion Turbine 2B Equipped with Inlet Air Foggers	Natural Gas	402	99-A-328-S3
EP027	EU015	Combustion Turbine 3A Equipped with Inlet Air Foggers	Natural Gas	402	77-A-231-S4
EP028	EU016	Combustion Turbine 3B Equipped with Inlet Air Foggers	Natural Gas	402	99-A-329-S3

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from each of these emission points shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%[(1)]
Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permits listed in Table: Combustion Turbines

(1) An exceedence of the indicator opacity of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limit(s): 2.65 lb/hr
Authority for Requirement: DNR Construction Permits listed in Table: Combustion Turbines

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 2.65 lb/hr
Authority for Requirement: DNR Construction Permits listed in Table: Combustion Turbines

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 2.65 lb/hr; 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permits listed in Table: Combustion Turbines

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 1.28 lb/hr; 0.015% by volume (2)
Authority for Requirement: 567 IAC 23.1(2)"aa"
DNR Construction Permits listed in Table: Combustion Turbines

(2) At 15% oxygen on a dry basis

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit: 128.64 lb/hr; 1290.0 tons/yr (3); 0.32 lb/MMBtu
Authority for Requirement: DNR Construction Permits listed in Table: Combustion Turbines

(3) Emission limit established for all units combined: Boiler 1 (EP 007 (retired)), Boiler 3 (EP 009 (retired)) and combustion turbines (EP 023 to EP 028) based on "netting" to demonstrate Project Number 14-282 does not have a "significant net emissions increase" for PSD as defined in 567 IAC 33.3 It includes the increase of 39.4 TPY NOx emissions. Facility-wide fuel usage restriction details listed in Operating Limits and Requirements section below.

Operational Limits & Requirements

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

NSPS Requirements

These combustion turbines are subject to Subpart A (General Provisions) and Subpart GG (Standards of Performance for Stationary Gas Turbines) of the New Source Performance Standards (NSPS) with respect to sulfur dioxide standards in 40 CFR 60.333 and the testing of fuels for sulfur content as required by 40 CFR 60.334 and 60.335.

Authority for Requirement: 40 CFR 60 subpart GG
567 IAC 23.1(2)"aa"

Operating Limits:

Operating limits for this emission unit shall be:

A. The owner/operator shall use natural gas only, as fuel in the turbines.
B. The owner/operator shall not use more than 7,672 MMcf of natural gas per rolling 12-month period for all units combined: Boiler 1 (EP 007 (retired)), Boiler 3 (EP 009 (retired)) and combustion turbines (EP 023 to EP 028).
C. The owner/operator shall follow the requirements of CSAPR as listed in the Title V permit.
D. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of the project (Project Number 14-282) the owner or operator shall document:
   (1) A description of the project (Project Number 14-282),
   (2) Identification of the emission unit(s) whose emissions of a regulated NSR pollutant as defined at the beginning of actual construction that could be affected by the project (Project Number 14-282), and
   (3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant subject to this review, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of *"projected actual emissions"* in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.
E. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall:
   (1) Monitor the emission of any regulated NSR pollutant subject to this review that could increase as a result of the project that is emitted by any emissions unit identified in subparagraph (1).
   (2) Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of five (5) years following resumption of regular operations and maintain a record of regular operations after the change.

Reporting & Record keeping:
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 DNR. Records shall be legible and maintained in an orderly manner. These records shall show compliance with the following requirements:

A. The owner/operator shall keep records of type of fuel combusted in these emission units.
B. The owner/operator shall keep monthly records of the amount of natural gas used in Boiler 1 (EP 007 (retired)), Boiler 3 (EP 009 (retired)) and combustion turbines (EP 023 to EP 028). Calculate and record the rolling 12-month totals.
C. The owner/operator shall follow keep records of the requirements per CSAPR as listed in the Title V permit.
D. Per 567 IAC 33.3(18)"f"(1), the owner or operator shall maintain a record of the information required in Condition D in the Operating Limits section above.
E. Per 567 IAC 33.3(18)"f"(4) and 567 IAC 33.3(18)"f"(5), the owner or operator shall maintain a record containing the information required in Condition E of the Operating Limits section above and that record shall be retained by the owner or operator for a period of five (5) years

after the project (Project Number 14-282) is completed.

F. Per 567 IAC 33.3(18)"f"(6), the owner or operator shall submit a report to the Department within sixty (60) days after the end of each year during which records must be generated under Condition E directly above setting out the unit's annual emissions during the calendar year that preceded submission of the report.

Authority for Requirement: DNR Construction Permits listed in Table: Combustion Turbines

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Stack Height (ft, from the ground): 31
Stack Opening (inches, equivalent circumference): 108
Exhaust Temperature (^{o}F): 850
Exhaust Flowrate (scfm): 236,182
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permits listed in Table: Combustion Turbines

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request 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.

Continuous:

Pollutant – Nitrogen Oxides (NO_x) [(1)]
Monitoring Method – Continuous using Correlation Curve
Authority for Requirement – DNR Construction Permits listed in Table: Combustion Turbines

(1) The facility shall use the accepted CAIR program NOx Rate/Heat Rate Correlation Curve Method per 40 CFR Part 75 Appendix E for turbines to demonstrate compliance with the emission limit.

Stack Testing:

Pollutant – Nitrogen Oxides (NO_x)
Stack Test to be Completed by (date) – [(2) (3)]
Test Method – 40 CFR 60, Appendix A, Method 7E
Authority for Requirement – DNR Construction Permits listed in Table: Combustion Turbines

(2) The facility shall demonstrate compliance with the NOx emission limit in the Emission Limits section.

- The facility shall test any one of the six turbines: EU 1A, EU 1B, EU 2A, EU 2B, EU 3A, EU 3B. Representative testing is allowed.
- After the turbines are modified to burn natural gas, first test shall be conducted within 30 months of the first NOx Rate/Heat Rate Correlation Curve test.
- Thereafter, testing shall be conducted within 30 months after every NOx Rate/Heat Rate Correlation Curve test required by 40 CFR Part 75.

(3) The first test was conducted 03/08/2017 and was accepted by the Department.

The owner of this equipment or his 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: EP 401, EP 402

Associated Equipment

Associated Emission Unit ID Number	Emissions Control Equipment ID Number	Emissions Control Equipment Description	Continuous Emissions Monitors ID Numbers
EU 401	CE OXCAT1	CO Catalyst	CEMS CT1
	CE SCR1	SCR	
	CE LNB1	Low-NO_x Burner	
EU 402	CE OXCAT2	CO Catalyst	CEMS CT2
	CE SCR2	SCR	
	CE LNB2	Low-NO_x Burner	

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Fuel	Rated Capacity (MMBtu/hr)	Construction Permit Number
EP 401	EU 401	Combustion Turbine #1	Natural Gas	2413	13-A-499-P3
EP 402	EU 402	Combustion Turbine #2	Natural Gas	2413	13-A-500-P3

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from each of these emission points shall not exceed the levels specified below.

BACT Emission Limits

Pollutant: Opacity
Emission Limit(s): No Visible Emissions
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3

Pollutant: Particulate Matter ($PM/PM_{10}/PM_{2.5}$)
Emission Limit(s): 77.1 tons/yr [(1) (2)]; 0.01 lb/MMBtu [(3)]
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit: 114.5 tons/yr [(1) (2)]; 2 ppm [(4)]
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit: 93.7 tons/yr [(1) (2)]; 1 ppm [(3)]
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3

Pollutant: Carbon Monoxide (CO)
Emission Limit: 747.5 tons/yr [(1) (2)]; 2 ppm [(4)]
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3

Pollutant: Sulfuric Acid Mist (H_2SO_4)
Emission Limit: 31.3 tons/yr [(1) (2)]; 0.0032 lb/MMBtu [(3)]
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3

Pollutant: Carbon Dioxide (CO_2)
Emission Limit: 951 lb CO_2/MW-hr (gross) [(2) (5)]
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3

Pollutant: Greenhouse Gas (CO_2e)
Emission Limit: 1,318,647 tons/yr [(1) (2)]
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3

(1) Standard is a 12-month rolling total.
(2) Standard includes all emissions, including startup, shutdown and malfunction.
(3) Standard is the average of three test runs not including startup, shutdown and malfunction. Corrected to 15% O_2.
(4) Standard is a 30-day rolling average not including startup, shutdown and malfunction. Corrected to 15% O_2.
(5) Standard is a 12-month rolling average.

NSPS Emission Limits

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit: 15 ppm [(6)]
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3
40 CFR Part 60 Subpart KKKK
567 IAC 23.1(2)"aaaa"

(6) Limit of 15 ppm corrected to 15% O_2. Limit is a 30-day rolling average.

Other Emission Limits

Pollutant: Opacity
Emission Limit(s): 40% [(7)]
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3
567 IAC 23.3(2)"d"

(7) An exceedance of the indicator opacity of no visible emissions 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).

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limit(s): 17.6 lb/hr
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 17.6 lb/hr
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3
567 IAC 23.3(2)"a"(1)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 4.29 lb/hr; 500 ppmv
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit: 30.0 lb/hr [(8) (9)]; 174.3 lb/hr [(10)]
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3

Pollutant: Carbon Monoxide (CO)
Emission Limit: 11.6 lb/hr [(8) (9)]; 3126.1 lb/hr [(10)]
Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3

(8) Standard is monitored by CEMs.
(9) Limit used in NAAQS modeling for normal operation. The NO_x limit is for a three-hour rolling average basis, CO is a 30-day rolling average.
(10) Limit used in NAAQS modeling for start-up and shutdown. The NO_x limit is for a three-hour rolling average basis, CO is a 30-day rolling average.

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: Sulfur Dioxide Allowances
Authority for Requirement: 567 IAC 22.108(7) (See Appendix A Phase II Acid Rain Permit)

Pollutant: Nitrogen Oxide (NO_x)
Emission Limits: See attached Phase II Permit
Authority for Requirement: 567 IAC 22.125(4) (See Appendix A Phase II Acid Rain Permit)
40 CFR Part 76

Pollutant: Nitrogen Oxides (NO_x) Annual, Nitrogen Oxides (NO_x) Ozone Season, Sulfur Dioxide (SO_2) Group 1
Emission Limits: Nitrogen Oxides and Sulfur Dioxide Allowances
Authority for Requirement: 40 CFR Part 97 (See Appendix A for CSAPR requirements)

Operating Requirements with Associated Monitoring and Recordkeeping

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner. These records shall show compliance with the following requirements:

A. The owner or operator shall use natural gas, in these turbines, with a sulfur content not exceeding 20 grains per 100 standard cubic feet.
B. The owner or operator shall maintain a record of the sulfur content of any fuel used in the turbines.
C. The owner or operator shall operate the SCR at all times during steady state operation.
D. The owner or operator shall maintain a record of catalyst replacement.
E. The owner or operator shall operate all existing turbines (EU011, EU012, EU013, EU014, EU015, and EU016) and boilers at this facility (64-01-012) using natural gas only.
F. The owner or operator shall only operate these turbines (EU401 and EU402) using natural gas.
G. The owner or operator shall maintain a record of gross electricity generated, in MW-hr. Calculate the 12-month rolling CO_2/MW-hr gross ratio.
H. The owner or operator shall calculate total CO_2e emissions on a 12-month rolling basis based on unit specific emission factors and fuel usage.
I. The owner or operator shall submit reports as required by 40 CFR 60.4375.

Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3

NSPS Requirements

These units are subject to NSPS subpart KKKK, New Source Performance Standards for Stationary Combustion Turbines, 40 CFR 60.4300. This unit is also subject to NSPS subpart A, General Requirements.

Authority for Requirement: 40 CFR 60 Subpart KKKK
567 IAC 23.1(2)"aaaa"
DNR Construction Permits 13-A-499-P3 and 13-A-500-P3

These units are subject to NSPS subpart TTTT, New Source Performance Standards for Greenhouse Gas Emissions for Electric Generating Units, 40 CFR 60.5508.

Authority for Requirement: 40 CFR 60 Subpart TTTT

Emission Point Characteristics
These emission points shall conform to the specifications listed below.

Emission Point	Stack Height (ft, from the ground)	Stack Opening (inches)	Exhaust Temperature (ºF)	Exhaust Flowrate (scfm)	Discharge Style
401	199	242	180	947,000	Vertical Unobstructed
402	199	242	182	954,000	Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3
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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request 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.

Continuous Emissions Monitoring:

The owner or operator shall demonstrate compliance with the nitrogen oxide emission limits (both NSPS and non-NSPS) through the use of a continuous emission monitoring system (CEMS). The owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring nitrogen oxides emissions discharged from the emission point to the atmosphere. The CEM shall be installed, evaluated, operated and data collected to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 2 (PS2). 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.

Each NO_X diluent CEMS must be installed and certified according to Performance Specification 2 (PS 2) in appendix B to this part, except the 7-day calibration drift is based on unit operating days, not calendar days. With state approval, Procedure 1 in appendix F to this part is not required. Alternatively, a NO_X diluent CEMS that is installed and certified according to appendix A of part 75 of this chapter is acceptable for use under this subpart. The relative accuracy test audit (RATA) of the CEMS shall be performed on a lb/MMBtu basis.

As specified in §60.13(e)(2), during each full unit operating hour, both the NO_X monitor and the diluent monitor must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each 15-minute quadrant of the hour, to validate the hour. For partial unit operating hours, at least one valid data point must be obtained with each monitor for each quadrant of the hour in which the unit operates. For unit operating hours in which required

quality assurance and maintenance activities are performed on the CEMS, a minimum of two valid data points (one in each of two quadrants) are required for each monitor to validate the NO_X emission rate for the hour.

Each fuel flowmeter shall be installed, calibrated, maintained, and operated according to the manufacturer's instructions. Alternatively, fuel flowmeters that meet the installation, certification, and quality assurance requirements of appendix D to part 75 of this chapter are acceptable for use under this subpart.

Each watt meter, steam flow meter, and each pressure or temperature measurement device used to calculate emission rates shall be installed, calibrated, maintained, and operated according to the QA plan described below.

The owner or operator shall develop and keep on-site a quality assurance (QA) plan for all of the continuous monitoring equipment described in paragraphs (a), (c), and (d) of this section. For the CEMS and fuel flow meters, the owner or operator may, satisfy the requirements of this paragraph by implementing the QA program and plan described in section 1 of appendix B to part 75 of this chapter.

The owner or operator shall demonstrate compliance with the carbon monoxide emission limits through the use of a continuous emission monitoring system (CEMS). The owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring carbon monoxide emissions discharged from the emission point to the atmosphere. The CEM shall be installed, evaluated, operated and data collected to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 4 (PS4). 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.

The owner or operator shall demonstrate compliance with the NO_X and CO pound per hour emission limits through the use of a continuous flow monitoring system (flowmeter). The owner or operator shall install, calibrate, maintain, and operate a flowmeter for calculating the lb/hr emission rates of NO_X and CO discharged from the emission point to the atmosphere. The flowmeter shall be installed, evaluated, operated and data collected to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 6 (PS6). Alternatively, as stated above, each fuel flowmeter can be installed, calibrated, maintained and operated according to the requirements of appendix D to part 75.

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.

The procedures under 40 CFR §60.13 shall be followed for installation, evaluation, and operation of the CEMS.

Authority for Requirement: DNR Construction Permits 13-A-499-P3 and 13-A-500-P3

The owner of this equipment or his 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: See Table: Fugitive Sources

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Fugitive Sources

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Table: Fugitive Sources

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material/Fuel	Rated Capacity
EP001	EU004	Coal and Petroleum Coke Pile	Coal and Petroleum Coke	6.43 Acres
EP247	EU247	Ecostone Pile	Fly Ash	2.42 Acres

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from these emission points shall not exceed the levels specified below.

Pollutant: Fugitive Dust
Emission Limit: 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 a nuisance. All persons 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"

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: EP 403

Associated Equipment

Associated Emission Unit ID Numbers: EU 403
Emissions Control Equipment ID Number: CE OXCAT3
Emissions Control Equipment Description: CO Oxidation Catalyst

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Emission Unit vented through this Emission Point: EU 403
Emission Unit Description: Auxiliary Boiler
Raw Material/Fuel: Natural Gas
Rated Capacity: 52 MMBtu/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.

BACT Emission Limits

Pollutant: Opacity
Emission Limits: No Visible Emissions
Authority for Requirement: DNR Construction Permit 13-A-501-P1

Pollutant: Particulate Matter ($PM_{2.5}$, PM_{10}, PM)
Emission Limits: 0.008 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-501-P1

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 0.013 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-501-P1

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.005 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-501-P1

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 0.0164 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-501-P1

Pollutant: Sulfuric Acid Mist
Emission Limit(s): 0.0055 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-501-P1

Pollutant: Greenhouse Gas (CO_2e)
Emission Limit(s): 14,979 tons/yr [1]
Authority for Requirement: DNR Construction Permit 13-A-501-P1

[1] Standard is a 12-month rolling total.

Other Emission Limits

Pollutant: Opacity
Emission Limits: 40% [2]
Authority for Requirement: DNR Construction Permit 13-A-501-P1
567 IAC 23.3(2)"d"

[2] An exceedance of the indicator opacity of no visible emissions will require the owner/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 DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limits: 0.42 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-501-P1

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 0.42 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-501-P1

Pollutant: Particulate Matter (PM)
Emission Limits: 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-501-P1
567 IAC 23.3(2)"b"(3)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 0.03 lb/hr; 500 ppm
Authority for Requirement: DNR Construction Permit 13-A-501-P1
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 0.68 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-501-P1

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 2.13 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-501-P1

Operational Limits & Requirements

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

NSPS

This emission unit is subject to Subparts A (*General Provisions*; 40 CFR §60.1 – 40 CFR §60.19) and Dc (*Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units*; 40 CFR §60.40c – 40 CFR §60.48c) of the New Source Performance Standards (NSPS).

Authority for Requirement: DNR Construction Permit 13-A-501-P1
40 CFR Part 60 Subpart A
567 IAC 23.1(2)
40 CFR Part 60 Subpart Dc
567 IAC 23.1(2)"lll"

Operating Limits

Operating limits for this emission unit shall be:

A. This boiler shall be fired by natural gas only.
B. The amount of fuel fired in this boiler shall not exceed 288.7 million cubic feet per 12-month rolling period.

Reporting & Record keeping:

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. These records shall show the following:

A. Per 40 CFR §60.49c(d)(1), the owner or operator shall record and maintain records of the amount of each fuel combusted during each operating day.
B. Record the amount of fuel fired in this boiler, in cubic feet. Calculate and record monthly and 12-month rolling totals.
C. Maintain a record of catalyst replacement.
D. Calculate total CO_{2e} emissions on a 12-month rolling basis based on unit specific emission factors and fuel usage.

Authority for Requirement: DNR Construction Permit 13-A-501-P1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 43
Stack Opening (inches): 38
Exhaust Temperature (^oF): 300
Exhaust Flowrate (scfm): 14,134
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 13-A-501-P1

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request 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** ☒

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 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)

Emission Point ID Numbers: EP 404a, EP 404b, EP 404c

Associated Equipment

Associated Emission Unit ID Numbers: EU 404

Emission Unit vented through this Emission Point: EU 404
Emission Unit Description: MGS Dew Point Heater #1
Raw Material/Fuel: Natural Gas
Rated Capacity: 13.32 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from each emission point shall not exceed the levels specified below.

BACT Emission Limits

Pollutant: Opacity
Emission Limits: No Visible Emissions
Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P

Pollutant: Particulate Matter ($PM_{2.5}$, PM_{10}, PM)
Emission Limits: 0.008 lb/MMBtu
Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 0.013 lb/MMBtu
Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.005 lb/MMBtu
Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 0.041 lb/MMBtu
Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P

Pollutant: Sulfuric Acid Mist (H_2SO_4)
Emission Limit(s): 0.0007 lb/hr [(3)]
Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P

Pollutant: Greenhouse Gas (CO_2e)
Emission Limit(s): 6860 tons/yr [(1) (2) (3)]
Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P

[(1)]Total emissions for EP404a, 404b and 404c combined.
[(2)] Standard is a 12-month rolling total.
[(3)] Global warming potential for N_2O shall be 298 and for CH_4 shall be 25.

Other Emission Limits

Pollutant: Opacity
Emission Limits: 40%
Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limits: 0.11 lb/hr [(4)]
Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 0.11 lb/hr [(4)]
Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P

Pollutant: Particulate Matter (PM)
Emission Limits: 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P
567 IAC 23.3(2)"b"(3)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 0.008 lb/hr [(4)]; 500 ppm
Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 0.17 lb/hr [(4)]
Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 0.55 lb/hr [(4)]
Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P

[(4)] Total emissions for EP404a, 404b and 404c combined.

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

NSPS

This emission unit is subject to Subparts A (*General Provisions*; 40 CFR §60.1 – 40 CFR §60.19) and Dc (*Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units*; 40 CFR §60.40c – 40 CFR §60.48c) of the New Source Performance Standards (NSPS).

Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P
40 CFR Part 60 Subpart A
567 IAC 23.1(2)
40 CFR Part 60 Subpart Dc
567 IAC 23.1(2)"lll"

Operating Limits

Operating limits for this emission unit shall be:

A. This unit shall be fired by natural gas only.

Reporting & Record keeping:
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. These records shall show the following:

A. Maintain a record of the sulfur content of any fuel used in this unit.

Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P

Emission Point Characteristics
Each emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 23.4
Stack Opening (inches): 12
Exhaust Temperature (^{o}F): 500
Exhaust Flowrate (scfm): 676
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permits 13-A-502-P1, 15-A-463-P, 15-A-464-P

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall

submit a request 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: EP 405

Associated Equipment

Associated Emission Unit ID Numbers: EU 405

Emission Unit vented through this Emission Point: EU 405
Emission Unit Description: Gas Distribution Dew Point Heater #2
Raw Material/Fuel: Natural Gas
Rated Capacity: 3 MMBtu/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.

BACT Emission Limits

Pollutant: Opacity
Emission Limits: No Visible Emissions
Authority for Requirement: DNR Construction Permit 13-A-503-P2

Pollutant: Particulate Matter ($PM_{2.5}$, PM_{10}, PM)
Emission Limits: 0.008 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-503-P2

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 0.013 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-503-P2

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.005 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-503-P2

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 0.041 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-503-P2

Pollutant: Sulfuric Acid Mist
Emission Limit(s): 0.0003 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-503-P2

Pollutant: Greenhouse Gas (CO_2e)
Emission Limit(s): 1545 tons/yr [(1)]
Authority for Requirement: DNR Construction Permit 13-A-503-P2

(1) Global warming potential for N_2O shall be 298 and for CH_4 shall be 25.

Other Emission Limits

Pollutant: Opacity
Emission Limits: 40%
Authority for Requirement: DNR Construction Permit 13-A-503-P2
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limits: 0.02 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-503-P2

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 0.02 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-503-P2

Pollutant: Particulate Matter (PM)
Emission Limits: 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-503-P2
567 IAC 23.3(2)"b"(3)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 0.0018 lb/hr; 500 ppm
Authority for Requirement: DNR Construction Permit 13-A-503-P2
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 0.04 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-503-P2

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 0.12 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-503-P2

Operating Requirements with Associated Monitoring and Recordkeeping
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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.

A. The owner or operator shall use only natural gas to fire this emission unit.
B. The owner or operator shall maintain a record of the sulfur content of any fuel used in this emission unit.

Authority for Requirement: DNR Construction Permit 13-A-503-P2

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 19.5
Stack Opening (inches): 12.0, diameter
Exhaust Temperature (^oF): 600
Exhaust Flowrate (scfm): 535
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 13-A-503-P2

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request 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: EP 406

Associated Equipment

Associated Emission Unit ID Numbers: EU 406
Emissions Control Equipment ID Number: N/A
Emissions Control Equipment Description: Mist Eliminator, 0.0005%

Emission Unit vented through this Emission Point: EU 406
Emission Unit Description: Cooling Tower (8 Cells)
Raw Material/Fuel: Water
Rated Capacity: 160,000 gals/min

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.

BACT Emission Limits

Pollutant: Opacity
Emission Limits: No Visible Emissions
Authority for Requirement: DNR Construction Permit 13-A-504-P1

Pollutant: Particulate Matter ($PM_{2.5}$, PM_{10}, PM)
Emission Limits: 1.2 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-504-P1

Other Emission Limits

Pollutant: Opacity
Emission Limits: 40%
Authority for Requirement: DNR Construction Permit 13-A-504-P1
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limits: 1.2 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-504-P1

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 1.2 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-504-P1

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 13-A-504-P1
567 IAC 23.3(2)"b"(3)

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

Operating Limits

Operating limits for this emission unit shall be:

A. This unit shall not use chromium based water treatment chemicals.
B. The total dissolved solids (TDS) content of the water in this cooling tower shall not exceed 3000 ppm.

Reporting & Record keeping:
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. These records shall show the following:

A. Maintain a record of any water treatment chemicals used in this unit.
B. Monitor the TDS content by sampling at least once per calendar quarter.

Authority for Requirement: DNR Construction Permit 13-A-504-P1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 45
Stack Opening (inches): 396 (each cell)
Exhaust Temperature (^{o}F): 105.5
Exhaust Flowrate (scfm): 10,004,044 (total)
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 13-A-504-P1

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request 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: EP 407

Associated Equipment

Associated Emission Unit ID Numbers: EU 407

Emission Unit vented through this Emission Point: EU 407
Emission Unit Description: Emergency Generator
Raw Material/Fuel: Diesel
Rated Capacity: 2000 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.

BACT Emission Limits

Pollutant: Opacity
Emission Limits: 20% – Acceleration Mode
15% - Lugging Mode
50% - Peaks in Acceleration or Lugging Mode
Authority for Requirement: DNR Construction Permit 13-A-505-P1
40 CFR Part 60 Subpart IIII

Pollutant: Particulate Matter ($PM_{2.5}$, PM_{10}, PM)
Emission Limits: 0.20 grams/kW-hr
Authority for Requirement: DNR Construction Permit 13-A-505-P1
40 CFR Part 60 Subpart IIII

Pollutant: Non-Methane Hydrocarbon (NMHC) + Nitrogen Oxides (NO_x)
Emission Limit(s): 6.4 grams/kW-hr
Authority for Requirement: DNR Construction Permit 13-A-505-P1
40 CFR Part 60 Subpart IIII

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.32 g/hp-hr
Authority for Requirement: DNR Construction Permit 13-A-505-P1

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 3.5 grams/kW-hr
Authority for Requirement: DNR Construction Permit 13-A-505-P1
40 CFR Part 60 Subpart IIII

Pollutant: Sulfuric Acid Mist
Emission Limit(s): 0.0003 tpy
Authority for Requirement: DNR Construction Permit 13-A-505-P1

Pollutant: Greenhouse Gas (CO_2e)
Emission Limit(s): 127 tons/yr [(1)]
Authority for Requirement: DNR Construction Permit 13-A-505-P1

[(1)] Global warming potential for N_2O shall be 298 and for CH_4 shall be 25.

Other Emission Limits

Pollutant: Opacity
Emission Limits: 40%
Authority for Requirement: DNR Construction Permit 13-A-505-P1
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limits: 0.97 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-505-P1

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 0.97 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-505-P1

Pollutant: Particulate Matter (PM)
Emission Limits: 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-505-P1
567 IAC 23.3(2)"b"(3)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 0.04 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-505-P1
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 30.9 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-505-P1

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 16.9 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-505-P1

Operational Limits & Requirements

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

NESHAP Subpart ZZZZ Requirements

This emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(2)(iii) this emergency engine, located at an area source, is a new stationary RICE as it was constructed on or after June 12, 2006.

According to 40 CFR 63.6590(c)(1), a new stationary RICE located at an area source of HAP emissions must meet the requirements of Part 63 by meeting the requirements of 40 CFR part 60 subpart IIII for compression ignition engines. No further requirements apply for this engine under Part 63.

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

NSPS Subpart IIII Requirements

A. This engine is subject to 40 CFR Part 60 NSPS Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (IAC 23.1(2)"yyy"). The engine is an emergency stationary internal combustion engine that is not a fire pump engine.

   i. In accordance with §60.4211(c), the engine must be certified by its manufacturer to comply with the emissions standards from §60.4205 (b) and §60.4202 (a)(2). The emission standards that the engine must be certified by the manufacturer to meet are:

Pollutant	**Emission Standard**	**Basis**
Particulate Matter (PM)	0.20 grams/kW-hr	§ 89.112 Table 1
NMHC[1] + NOx	6.4 grams/kW-hr	§ 89.112 Table 1
Carbon Monoxide (CO)	3.5 grams/kW-hr	§ 89.112 Table 1
Opacity – acceleration mode	20%	§ 89.113 (a)(1)
Opacity – lugging mode	15%	§ 89.113 (a)(2)
Opacity – peaks in	50%	§ 89.113 (a)(3)

Pollutant	Emission Standard	Basis
acceleration or lugging modes		

[1] Non-methane hydrocarbon

ii. In accordance with §60.4211(c), the owner or operator must comply with the required NSPS emissions standards by purchasing an engine certified by its manufacturer to meet the applicable emission standards for the same model year and engine power. The engine must be installed and configured to the manufacturer's specifications. Provided these requirements are satisfied, no further demonstration of compliance with the emission standards from §60.4205 (b) and §60.4202 (a)(2) is required.

Authority for Requirements: DNR Construction Permit 13-A-505-P1
40 CFR Part 60 Subpart IIII
567 IAC 23.1(2)"yyy"

Operating Limits

Operating limits for this emission unit shall be:

A. This unit shall be fired by diesel fuel only.
B. The number of hours this unit is operated for maintenance and testing shall not exceed 100 hours per 12-month rolling period.
C. The sulfur content of any fuel used in this unit shall not exceed 15 ppm.
D. The cetane index of any fuel used in this unit shall not be less than 40.
E. The aromatic content of any fuel used in this unit shall not exceed 35% by volume.

Reporting & Record keeping:
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. These records shall show the following:

A. Record the number of hours this unit is operated. Calculate and record monthly and 12-month rolling totals.
B. Maintain a record of the sulfur content of any fuel used in this unit.
C. Maintain a record of the cetane index and aromatic content of any fuel used in this unit.

Authority for Requirement: DNR Construction Permit 13-A-505-P1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 119.3
Stack Opening (inches): 24
Exhaust Temperature (^oF): 800
Exhaust Flowrate (scfm): 6581
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 13-A-505-P1

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request 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: EP 408

Associated Equipment

Associated Emission Unit ID Numbers: EU 408

Emission Unit vented through this Emission Point: EU 408
Emission Unit Description: Fire Pump Engine
Raw Material/Fuel: Diesel
Rated Capacity: 305 HP

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.

BACT Emission Limits

Pollutant: Opacity
Emission Limits: 20% – Acceleration Mode
15% - Lugging Mode
50% - Peaks in Acceleration or Lugging Mode
Authority for Requirement: DNR Construction Permit 13-A-506-P2
40 CFR Part 60 Subpart IIII

Pollutant: Particulate Matter ($PM_{2.5}$, PM_{10}, PM)
Emission Limits: 0.20 grams/kW-hr
Authority for Requirement: DNR Construction Permit 13-A-506-P2
40 CFR Part 60 Subpart IIII

Pollutant: Non-Methane Hydrocarbon (NMHC) + Nitrogen Oxides (NO_x)
Emission Limit(s): 4.0 grams/kW-hr
Authority for Requirement: DNR Construction Permit 13-A-506-P2
40 CFR Part 60 Subpart IIII

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 1.14 g/hp-hr
Authority for Requirement: DNR Construction Permit 13-A-506-P2

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 3.5 grams/kW-hr
Authority for Requirement: DNR Construction Permit 13-A-506-P2
40 CFR Part 60 Subpart IIII

Pollutant: Sulfuric Acid Mist
Emission Limit(s): 0.001 tpy
Authority for Requirement: DNR Construction Permit 13-A-506-P2

Pollutant: Greenhouse Gas (CO_2e)
Emission Limit(s): 19 tons/yr [(1)]
Authority for Requirement: DNR Construction Permit 13-A-506-P2

[(1)] Global warming potential for N_2O shall be 298 and for CH_4 shall be 25.

Other Emission Limits

Pollutant: Opacity
Emission Limits: 40%
Authority for Requirement: DNR Construction Permit 13-A-506-P2
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limits: 0.10 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-506-P2

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 0.10 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-506-P2

Pollutant: Particulate Matter (PM)
Emission Limits: 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-506-P2
567 IAC 23.3(2)"b"(3)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 0.18 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-506-P2
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 2.01 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-506-P2

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 1.75 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-506-P2

Operating Requirements with Associated Monitoring and Recordkeeping

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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. These records shall show the following:

A. The owner or operator shall fire this emission unit with only diesel fuel.
B. The owner or operator shall not use any fuel with an aromatic content exceeding 35% by volume in this unit.
C. The owner or operator shall not exceed 100 hours per 12-month rolling period for the number of hours this unit is operated for maintenance and testing.
D. The owner or operator shall record the number of hours this unit is operated. Calculate and record monthly and 12-month rolling totals.
E. The owner or operator shall not exceed 15 ppm sulfur content of any fuel used in this unit.
F. The owner or operator shall maintain a record of the sulfur content of any fuel used in this unit.
G. The owner or operator shall not use any fuel with a cetane index less than 40 in this unit.
H. The owner or operator shall maintain a record of the cetane index and aromatic content of any fuel used in this unit.

Authority for Requirement: DNR Construction Permit 13-A-506-P2

NESHAP Subpart ZZZZ Requirements

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(2)(iii) this emergency engine, located at an area source, is a new stationary RICE as it was constructed on or after June 12, 2006.

According to 40 CFR 63.6590(c)(1), a new stationary RICE located at an area source of HAP emissions must meet the requirements of Part 63 by meeting the requirements of 40 CFR part 60 subpart IIII for compression ignition engines. No further requirements apply for this engine under Part 63.

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

NSPS Requirements

The emergency engine is subject to 40 CFR 60 Subpart IIII – New Source Performance Standards for National Compression Ignition Internal Combustion Engines, and 40 CFR 60 Subpart A – General Provisions.

Authority for Requirements: DNR Construction Permit 13-A-506-P2
40 CFR Part 60 Subpart IIII
567 IAC 23.1(2)"yyy"

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 16.6
Stack Opening (inches): 6.0, diameter
Exhaust Temperature (^{o}F): 961
Exhaust Flowrate (scfm): 518
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 13-A-506-P2

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request 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: EP 409

Associated Equipment

Associated Emission Unit ID Numbers: EU 409

Emission Unit vented through this Emission Point: EU 409
Emission Unit Description: Circuit Breakers
Raw Material/Fuel: Sulfur Hexafluoride
Rated Capacity: Three 161 kV, two 18 kV

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.

BACT Emission Limits

Pollutant: Sulfur Hexafluoride (SF_6)
Emission Limits: 0.5% loss per year [(1)]
Authority for Requirement: DNR Construction Permit 13-A-507-P1

[(1)] Standard is based on a calendar year.

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

Operating Limits

Operating limits for this emission unit shall be:

A. Operate and maintain these units to minimize emissions of SF_6.
B. Develop and implement a written leak detection and repair (LDAR) program for switches containing SF_6 that are owned by Interstate Power and Light and are part of this project.

Reporting & Record keeping:
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. These records shall show the following:

A. Maintain a record of any SF_6 replenished in these units. Calculate and record the percentage of SF_6 replenished on an annual basis.
B. Record the results of the LDAR program.

Authority for Requirement: DNR Construction Permit 13-A-507-P1

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: EP 410

Associated Equipment

Associated Emission Unit ID Numbers: EU 410

Emission Unit vented through this Emission Point: EU 410
Emission Unit Description: Marshalltown CT Dew Point Heater #3
Raw Material/Fuel: Natural Gas
Rated Capacity: 4.5 MMBtu/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.

BACT Emission Limits

Pollutant: Opacity
Emission Limits: No Visible Emissions
Authority for Requirement: DNR Construction Permit 13-A-508-P2

Pollutant: Particulate Matter ($PM_{2.5}$, PM_{10}, PM)
Emission Limits: 0.008 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-508-P2

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 0.013 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-508-P2

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.005 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-508-P2

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 0.041 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-508-P2

Pollutant: Sulfuric Acid Mist
Emission Limit(s): 0.0004 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-508-P2

Pollutant: Greenhouse Gas (CO_2e)
Emission Limit(s): 2317 tons/yr
Authority for Requirement: DNR Construction Permit 13-A-508-P2

Other Emission Limits

Pollutant: Opacity
Emission Limits: 40%
Authority for Requirement: DNR Construction Permit 13-A-508-P2
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limits: 0.04 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-508-P2

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 0.04 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-508-P2

Pollutant: Particulate Matter (PM)
Emission Limits: 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 13-A-508-P2
567 IAC 23.3(2)"b"(3)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 0.003 lb/hr; 500 ppm
Authority for Requirement: DNR Construction Permit 13-A-508-P2
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 0.06 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-508-P2

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 0.18 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-508-P2

Operating Requirements with Associated Monitoring and Recordkeeping

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

A. The owner or operator shall use only natural gas to fire this emission unit.
B. The owner or operator shall maintain a record of the sulfur content of any fuel used in this emission unit.

Authority for Requirement: DNR Construction Permit 13-A-508-P2

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 19.8
Stack Opening (inches): 12.0, diameter
Exhaust Temperature (^{o}F): 600
Exhaust Flowrate (scfm): 820
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 13-A-508-P2

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request 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: EP 411

Associated Equipment

Associated Emission Unit ID Numbers: EU 411

Emission Unit vented through this Emission Point: EU 411
Emission Unit Description: Fire Pump Fuel Oil Tank #1
Raw Material/Fuel: Diesel
Rated Capacity: 350 gallons

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.

BACT Emission Limits

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 2.5×10^{-5} tons/yr
Authority for Requirement: DNR Construction Permit 13-A-509-P2

Operating Requirements with Associated Monitoring and Recordkeeping
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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.

A. The owner or operator shall use this tank to store fuel oil #1 or fuel oil #2 only.
B. The owner or operator shall maintain a record of fuel stored in this fuel tank.

Authority for Requirement: DNR Construction Permit 13-A-509-P2

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 22 (east), 23 (west)
Stack Opening (inches): NA
Exhaust Temperature (^{o}F): NA
Exhaust Flowrate (scfm): Breathing losses
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 13-A-509-P2

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request 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: EP 412

Associated Equipment

Associated Emission Unit ID Numbers: EU 412

Emission Unit vented through this Emission Point: EU 412
Emission Unit Description: EDG Fuel Oil Tank #2
Raw Material/Fuel: Diesel
Rated Capacity: 3500 gallons

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.

BACT Emission Limits

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 4.9×10^{-4} tons/yr
Authority for Requirement: DNR Construction Permit 13-A-510-P1

Operating Requirements with Associated Monitoring and Recordkeeping
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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.

A. The owner or operator shall use this tank to store fuel oil #1 or fuel oil #2 only.
B. The owner or operator shall maintain a record of fuel stored in this fuel tank.

Authority for Requirement: DNR Construction Permit 13-A-510-P1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 14 (dual vents)
Stack Opening (inches): NA
Exhaust Temperature (^{o}F): NA
Exhaust Flowrate (scfm): Breathing losses
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 13-A-510-P1

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request 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)

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.

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, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, 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 Permits, 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 Pfor 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 the appropriate DNR Field office. *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 the appropriate DNR Field office. *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 following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
    a. Form 1.0 "Facility Identification";
    b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
    c. Form 5.0 "Title V annual emissions summary/fee"; and
    d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
    a. Form 1.0 "Facility Identification";
    b. Form 5.0 "Title V annual emissions summary/fee";
    c. Part 3 "Application certification."
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"*

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"*

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)*

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)*

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)*

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)*

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)*

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 567 IAC 23.2. *567 IAC 23.2 except 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only*
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 substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *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)*

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
502 East 9th Street
Des Moines, IA 50319
(515) 725-9545

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.
567 IAC 25.1(7)"a", 567 IAC 25.1(9)

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:

Chief of Air Permits
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
502 East 9th Street
Des Moines, IA 50319
(515) 725-9500

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

Field Office 1
909 West Main – Suite 4
Manchester, IA 52057
(563) 927-2640

Field Office 2
2300-15th St., SW
Mason City, IA 50401
(641) 424-4073

Field Office 3
1900 N. Grand Ave.
Spencer, IA 51301
(712) 262-4177

Field Office 4
1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

Field Office 5
7900 Hickman Road, Suite #200
Windsor Heights, IA 50324
(515) 725-0268

Field Office 6
1023 West Madison Street
Washington, IA 52353-1623
(319) 653-2135

Polk County Public Works Dept.
Air Quality Division
5885 NE 14th St.
Des Moines, IA 50313
(515) 286-3351

Linn County Public Health
Air Quality Branch
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000

AIR QUALITY BUREAU
7900 Hickman Rd., Suite 1
Windsor Heights, IA 50324

Phase II Acid Rain Permit

Issued to: Marshalltown Combustion Turbines
Operated by: IPL/Alliant Energy Corp.
ORIS code: 58236
Effective: From May 9, 2018 through May 8, 2023

For the Director of the Department of Natural Resources

_____

Lori Hanson, Supervisor of Operating Permits Section Date

Acid Rain Permit comprises the following:

1) Statement of Basis.

2) SO_2 allowances allocated under this permit and NO_x requirements for each affected unit.

3) Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.

4) The permit application submitted for this source, as corrected by the Iowa Department of Natural Resources (IDNR), Air Quality Bureau, Operating Permit Section. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

1) Statement of Basis

Statutory and Regulatory Authorities: In accordance with Iowa Code paragraph 455B.133[8"a"], and Titles IV and V of the Clean Air Act, the Iowa Department of Natural Resources (IDNR), Air Quality Bureau, Operating Permit Section issues this permit pursuant to 567 Iowa Administrative Code (IAC) 22.135(455B) to 22.145(455B) and 567 IAC 22.100(455B) to 22.116(455B). The compliance options are approved as proposed in the attached application.

2) SO_2 Allowance Allocations and NO_x Requirements for each affected unit

		2018	2019	2020	2021	2022	2023
Unit CT1	SO_2 allowances, under Table 2 of 40 CFR part 73.	0*	0*	0*	0*	0*	0*

		2018	2019	2020	2021	2022	2023
Unit CT2	SO_2 allowances, under Table 2 of 40 CFR part 73.	0*	0*	0*	0*	0*	0*

* The number of allowances allocated to Phase II affected units by U.S. EPA in 40 CFR part 73 Table 2 (Revised May 12, 2005). In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. Neither of the aforementioned conditions necessitate a revision to the unit SO_2 allowance allocations identified in this permit (See 40 CFR 72.84).

3) Comments, Notes and Justifications:

Initial Phase II SO_2 permit**.**

4) Permit Application: Attached.

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 11/30/2012

Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ☒ **new** ☐ **revised** ☐ **for Acid Rain permit renewal**

STEP 1

Identify the facility name, State, and plant (ORIS) code.

Facility (Source) Name	State	Plant Code
Marshalltown Generating Station	Iowa	58236

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
CT1	Yes
CT2	Yes

EPA Form 7610-16 (Revised 12-2009)

Marshalltown Generating Station
Facility (Source) Name (from STEP 1)

STEP 3

Read the standard requirements.

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:

(i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:

(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and

(ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:

(i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and

(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:

(i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or

(ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

Sulfur Dioxide Requirements, Cont'd.

STEP 3, Cont'd.

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;

Recordkeeping and Reporting Requirements, Cont'd.

STEP 3, Cont'd.

(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:
(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating

Marshalltown Generating Station
Facility (Source) Name (from STEP 1)

Effect on Other Authorities, Cont'd.

to applicable National Ambient Air Quality Standards or State Implementation Plans;

STEP 3, Cont'd.

(2) Limiting the number of allowances a source can hold; *provided,* that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification

STEP 4
Read the certification statement, sign, and date.

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name **Douglas R. Kopp**	
Signature D.R. Kopp	Date 3/5/2014

Instructions for the Acid Rain Program Permit Application

The Acid Rain Program requires the designated representative to submit an Acid Rain permit application for each source with an affected unit. A complete Certificate of Representation must be received by EPA before the permit application is submitted to the title V permitting authority. A complete Acid Rain permit application, once submitted, is binding on the owners and operators of the affected source and is enforceable in the absence of a permit until the title V permitting authority either issues a permit to the source or disapproves the application.

Please type or print. If assistance is needed, contact the title V permitting authority.

STEP 1 A Plant Code is a 4 or 5 digit number assigned by the Department of Energy=s (DOE) Energy Information Administration (EIA) to facilities that generate electricity. For older facilities, "Plant Code" is synonymous with "ORISPL" and "Facility" codes. If the facility generates electricity but no Plant Code has been assigned, or if there is uncertainty regarding what the Plant Code is, send an email to the EIA. The email address is EIA-860@eia.gov.

STEP 2 In column "a," identify each unit at the facility by providing the appropriate unit identification number, consistent with the identifiers used in the Certificate of Representation and with submissions made to DOE and/or EIA. Do not list duct burners. For new units without identification numbers, owners and operators must assign identifiers consistent with EIA and DOE requirements. Each Acid Rain Program submission that includes the unit identification number(s) (e.g., Acid Rain permit applications, monitoring plans, quarterly reports, etc.) should reference those unit identification numbers in exactly the same way that they are referenced on the Certificate of Representation.

Submission Deadlines

For new units, an initial Acid Rain permit application must be submitted to the title V permitting authority 24 months before the date the unit commences operation. Acid Rain permit renewal applications must be submitted at least 6 months in advance of the expiration of the acid rain portion of a title V permit, or such longer time as provided for under the title V permitting authority=s operating permits regulation.

Submission Instructions

Submit this form to the appropriate title V permitting authority. If you have questions regarding this form, contact your local, State, or EPA Regional Acid Rain contact, or call EPA's Acid Rain Hotline at (202) 343-9620.

Paperwork Burden Estimate

The public reporting and record keeping burden for this collection of information is estimated to average 8 hours per response. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW., Washington, D.C. 20460. Include the OMB control number in any correspondence. **Do not send the completed form to this address.**

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 SO_2 Group 1 Trading Program.

Unit ID: CT 1 (ORIS Code: 58236) Marshalltown Combustion Turbines - Interstate Power and Light (Alliant Energy)					
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: CT 2 (ORIS Code: 58236) Marshalltown Combustion Turbines - Interstate Power and Light (Alliant Energy)					
Parameter	Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR part 75, subpart B (for	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 monitoring) and 40 CFR part 75, subpart H (for NO_X monitoring)				
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 SO_2 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 SO_2 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 SO_2 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 SO_2 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 SO_2 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.

<u>TR NO_X Ozone Season Trading Program Requirements (40 CFR 97.506)</u>

(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 BBBBB 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 BBBBB 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 BBBBB.

(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.

<u>TR SO_2 Group 1 Trading Program requirements (40 CFR 97.606)</u>

(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 SO_2 Group 1 source and each TR SO_2 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 SO_2 Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the TR SO_2 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) SO_2 emissions requirements.

(1) TR SO_2 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 SO_2 Group 1 source and each TR SO2 Group 1 unit at the source shall hold, in the source's compliance account, TR SO_2 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 SO_2 emissions for such control period from all TR SO_2 Group 1 units at the source.

(ii). If total SO_2 emissions during a control period in a given year from the TR SO_2 Group 1 units at a TR SO_2 Group 1 source are in excess of the TR SO_2 Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The owners and operators of the source and each TR SO_2 Group 1 unit at the source shall hold the TR SO_2 Group 1 allowances required for deduction under 40 CFR 97.624(d); and

(B). The owners and operators of the source and each TR SO_2 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 SO_2 Group 1 assurance provisions.

(i). If total SO_2 emissions during a control period in a given year from all TR SO_2 Group 1 units at TR SO_2 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 SO_2 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 SO_2 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 SO_2 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 SO_2 emissions exceeds the respective common designated representative's assurance level; and

(B). The amount by which total SO_2 emissions from all TR SO_2 Group 1 units at TR SO_2 Group 1 sources in the state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the TR SO_2 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 SO_2 emissions from all TR SO_2 Group 1 units at TR SO_2 Group 1 sources in the state during a control period in a given year exceed the state assurance level if such total SO_2 emissions exceed the sum, for such control period, of the state SO_2 Group 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 SO_2 emissions from all TR SO_2 Group 1 units at TR SO_2 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 SO_2 emissions from the TR SO_2 Group 1 units at TR SO_2 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 SO_2 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 SO_2 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 SO_2 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 SO_2 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 SO_2 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 SO_2

Group 1 allowance that was allocated for such control period or a control period in a prior year.

(ii). A TR SO_2 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 SO_2 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 SO_2 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 SO_2 Group 1 allowance is a limited authorization to emit one ton of SO_2 during the control period in one year. Such authorization is limited in its use and duration as follows:

(i). Such authorization shall only be used in accordance with the TR SO_2 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 SO_2 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 SO_2 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 SO_2 Group 1 source and each TR SO_2 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 SO_2 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 SO_2 Group 1 Trading Program.

(2) The designated representative of a TR SO_2 Group 1 source and each TR SO_2 Group 1 unit at the source shall make all submissions required under the TR SO_2 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 SO_2 Group 1 Trading Program that applies to a TR SO_2 Group 1 source or the designated representative of a TR SO_2 Group 1 source shall also apply to the owners and operators of such source and of the TR SO_2 Group 1 units at the source.

(2) Any provision of the TR SO_2 Group 1 Trading Program that applies to a TR SO_2 Group 1 unit or the designated representative of a TR SO_2 Group 1 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR SO_2 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 SO_2 Group 1 source or TR SO_2 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.

Appendix B: 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 Conditions A – E below 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:

Burlington Generating Station Des Moines County • Unit 1 (212 MW, coal-fired)	**Ottumwa Generating Station** Wapello County • Unit 1 (726 MW, coal-fired)
Dubuque Generating Station[5] Dubuque County • Unit 1 (38 MW, fossil-fuel fired) • Unit 5 (29 MW, fossil-fuel fired) • Unit 6 (15 MW, fossil-fuel fired)	**Sutherland Generating Station[1]** Marshall County • Unit 1 (38 MW, fossil-fuel fired) • Unit 2 (38 MW, fossil-fuel fired) • Unit 3 (82 MW, fossil-fuel fired)
Prairie Creek Generating Station Linn County • 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)	**Sixth Street Generating Station[2]** Linn County • 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)
Lansing Generating Station[3] Allamakee County • Unit 1 (15 MW, coal-fired) • Unit 2 (12 MW, coal-fired) • Unit 3 (38 MW, coal-fired) • Unit 4 (275 MW, coal-fired)	**Milton L. Kapp (M.L. Kapp) Generating[4] Station** Clinton County • Unit 1 (19 MW, coal-fired) • Unit 2 (219 MW, coal-fired)

[1] Sutherland Units 1, 2, and 3 no longer operate and have 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.
[5] Dubuque Generating Station no longer operates and its Title V permit has been rescinded.

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
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 SO_2:

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) <u>For all listed units except for Prairie Creek Generating Station Units 1 and 2:</u> 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 Units 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 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 SO_2 limits using the following procedures:

(a) For system-wide annual tonnage limits the owner or operator shall use SO_2 emission data obtained from a CEMS in accordance with the procedures specified in 40 CFR Part 75. Once a unit is refueled the SO_2 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*).

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) SO_2 Allowances:

(a) As required by Consent Decree Paragraph 66, "*SO_2 Allowance*" is defined as an authorization to emit a specified amount of SO_2 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 "SO_2 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 SO_2 allowances required to be surrendered pursuant to Consent Decree Paragraph 131 by June 30 of the immediately following calendar year. If any SO_2 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 SO_2 allowances and list the serial numbers of the transferred SO_2 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 SO_2 allowances and will not use any of the SO_2 allowances to meet any obligation imposed by any environmental law.

(iii) No later than the third periodic report due after the transfer of any SO_2 allowances, the owner or operator shall include a statement that the third-party recipient(s) surrendered the SO_2 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 SO_2 allowances to them. The owner or operator shall not have complied with the SO_2 allowance surrender requirements of Consent Decree Paragraph 135 until all third-party recipient(s) have actually surrendered the transferred SO_2 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 SO_2 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 SO_2 allowances to the EPA Enforcement Surrender Account or to any other EPA account that EPA may direct in writing. Such SO_2 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 SO_2 allowances are irrevocably authorized and that the source and location of the SO_2 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 SO_2 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 SO_2 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 SO_2 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 SO_2 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 SO_2 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 SO_2 Allowances are permanent and are not subject to any termination provision of the Consent Decree.

(4) SO_2 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 SO_2 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 SO_2 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 SO_2;

provided the owner or operator is also in compliance for the calendar year with all emission limitations for SO_2 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" within the meaning of the Consent Decree 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 the Emission Limits, Operating Requirements with Associated Monitoring and Recordkeeping, and the System-wide Consent Decree Requirements for IPL Facilities in Iowa sections 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 system-wide annual tonnage limitations;
   (b) The obligation to monitor SO_2, NO_x, and PM emissions; and
   (c) The obligation to surrender NO_x and SO_2 allowances.

(2) Emission reporting and allowance accounting information necessary to determine super-compliant NO_x and SO_2 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.

Authority for Requirement: DNR Construction Permit 75-A-014-P12 (Issued to IPL – Lansing Generating Station and which contains the system-wide requirements. Lansing Generating Station is part of the "system" as defined in the construction permit)

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 15, 2015]

Appendix C: Link to Standards

A. 40 CFR Part 60 Subpart A- General Provisions
http://www.ecfr.gov/cgi-bin/text-idx?SID=143a70b4d7d8bb80b33fa65c6f4c5c37&node=sp40.7.60.a&rgn=div6

B. 40 CFR Part 60 Subpart Dc- Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.d_0c

C. 40 CFR Part 60 Subpart GG - Standards of Performance for Stationary Gas Turbines
https://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&SID=&mc=true&r=PART&n=pt40.7.60#sp40.7.60.gg

D. 40 CFR Part 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
https://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&SID=&mc=true&r=PART&n=pt40.8.60#sp40.8.60.iiii

E. 40 CFR Part 60 Subpart KKKK - New Source Performance Standards for Stationary Combustion Turbines
https://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&SID=&mc=true&r=PART&n=pt40.8.60#sp40.8.60.kkkk

F. 40 CFR Part 60 Subpart TTTT—Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units
https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.tttt

G. 40 CFR Part 63 Subpart A- General Provisions
http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.10.63.a

H. 40 CFR Part 63 Subpart ZZZZ- Standards of Performance for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.
http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.14.63.zzzz