

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

**Name of Permitted Facility: Interstate Power and Light Company-
Emery Generating Station**

Facility Location: 11295 230th Street, Clear Lake, IA 50428

Air Quality Operating Permit Number: 07-TV-011R3

Expiration Date: 3/16/2027

Permit Renewal Application Deadline: 9/16/2026

EIQ Number: 92-6915

Facility File Number: 17-02-016

Responsible Official

Name: James Fleming

Title: Senior Manager Customer Operation

Mailing Address: 11295 230th Street, Clear Lake, IA 50428

Phone #: (641) 355-7534

Permit Contact Person for the Facility

Name: Michael Li

Title: Senior Environmental Specialist

Mailing Address: 200 First Street SE

Phone #: (319) 786-4635

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

Marnie Stein

03/17/2022

Marnie Stein, Supervisor of Air 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
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

Pollutants

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: Interstate Power & Light Company-Emery Generating Station
 Permit Number: 07-TV-011R3

Facility Description: Electrical Power Plant (SIC 4911)

Equipment List

A. Combustion Turbines-Combined Cycle

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
CC1	EU1	Combustion Turbine-Combined Cycle Process	02-A-634-P2
CC2	EU2	Combustion Turbine-Combined Cycle Process	02-A-636-P2

B. Combustion Turbines-Simple Cycle

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
SC1	EU-1SC	Combustion Turbine-Simple Cycle Process	02-A-633-P3
SC2	EU-2SC	Combustion Turbine-Simple Cycle Process	02-A-635-P3

C. Gas Heaters

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
GH1	EU3	Gas Heater A	02-A-637-P2
	EU4	Gas Heater B	

D. Black Start Generators

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
BSG1	EU8	Black Start Generator	02-A-644-P2
BSG2	EU9	Black Start Generator	02-A-645-P2
BSG3	EU10	Black Start Generator	02-A-646-P2
BSG4	EU11	Black Start Generator	02-A-647-P2
BSG5	EU12	Black Start Generator	02-A-648-P2
BSG6	EU15	Black Start Generator	03-A-1372-P1

E. Dew Point Heater

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
DPH1	EU14	Dew Point Heater	03-A-281-P
DPH2	EU14	Dew Point Heater	03-A-282-P

F. Miscellaneous Sources

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
AB1	EU5	Auxiliary Boiler	02-A-641-P1
CT1	EU6	Cooling Tower	02-A-642-P1
FP1	EU7	Fire Pump	02-A-643-P1
FT1	EU13	Fuel Oil Tank	02-A-649-P
FT2	EU99	Gasoline Tank 300 Gallons	NA

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
AST18	Sodium Hypochlorite Tank (1,550 gal.)
AST60	Sodium Hypochlorite Tank (6,550 gal.)
AST29	Sulfuric Acid Tank (6,000 gal)
AST30	ST13 Lube Oil Reservoir (4,000 gal.)
AST32	CT11 Lube Oil Reservoir (6,200 gal.)
AST33	CT12 Lube Oil Reservoir (6,200 gal.)
AST40	CHO Common Expansion Tank (800 gal.)
AST54	Oil/Water Separator Drain Tank (4,000 gal.)
AST56	CTS Waste Fuel & Wash Drain Tank (6,000 gal.)
ENG01	Portable Air Compressor (5.5 HP Gasoline)
PV01	Battery Compartment Vent
PV02	Battery Compartment Vent
PV03	Battery Compartment Vent
PV04	Battery Compartment Vent
PV05	Hydrogen Vents
PV06	Hydrogen Vents
PV07	Hydrogen Vents
SH08	16 Natural Gas Spaceheaters (Main Bldg, ST Mezzanine) < 10MMBtu
SH51	44 Natural Gas Spaceheaters (Main Bldg, Gnd. Level) < 10MMBtu
SH54	6 Natural Gas Spaceheaters (BS Gen Bldg,/Roof, UPS Roof, ST MCC Roof) < 10MMBtu
Tank 1	Fire Pump Diesel Tank 320 Gallons
Tank 2	Fuel Oil Tank 450 Gallons

II. Plant-Wide Conditions

Facility Name: Interstate Power & Light Company-Emery Generating Station

Permit Number: 07-TV-011R3

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

Permit Duration

The term of this permit is: Five (5) Years

Commencing on: 3/17/2022

Ending on: 3/16/2027

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 (SO₂): 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 - 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, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. 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 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 limited to, the following procedures.

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

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

40 CFR 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 EU1 and EU2 (Combustion Turbines 1 and 2). Applicable subpart GG requirements are incorporated into the Emission-Point Specific Conditions Section.

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

40 CFR 60 Subpart Dc Requirements

EU5, the Auxiliary Boiler is subject to NSPS Subpart Dc – Standards of Performance for Small Industrial-Commercial Institutional Steam Generating Units.

Authority for Requirement: 40 CFR 60 Subpart Dc
567 IAC 23.1(2)"III"

40 CFR 60 Subpart Da Requirements

The duct burners of Combustion Turbines 1 and 2 are subject to NSPS Subpart Da – Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978.

Authority for Requirement: 40 CFR 60 Subpart Da
567 IAC 23.1(2)"z"

40 CFR 63 Subpart ZZZZ Requirements

The Black Start Generator engines and the fire pump engine are subject to the following federal regulation for air toxic emissions: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63, Subpart ZZZZ].

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

40 CFR 63 Subpart CCCCCC Requirements

The 300-gallon gasoline tank (Tank 3) is subject to the following federal regulation for air toxic emissions: National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities [40 CFR Part 63, Subpart CCCCCC].

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

III. Emission Point-Specific Conditions

Facility Name: Interstate Power & Light Company-Emery Generating Station
 Permit Number: **07-TV-011R3**

Emission Point ID Number: See Table: Combustion Turbines-Combined Cycle

Associated Equipment

See Table Below

Table: Combustion Turbines-Combined Cycle

Emission Point: EP, Emission Unit: EU, Control Equipment: CE, Continuous Emission Monitoring System: CEMS

EP	EU	EU Description	CE ID	CE Description	CEMS ID	Raw Material	Rated Capacity (MMBtu/hr)
CC1	EU1	Combustion Turbine-Combined Cycle Combustion Turbine and Heat Recovery Steam Generator with Duct Burner	CE1	Dry-Low NOx Combustors	ME1 ME2	Natural Gas	2,451.2
			CE3	Selective Catalytic Reduction			2,046 (Turbine) and 405.2 (Duct Burner)
			CE4	Oxidation Catalyst			

DNR Construction Permit Number: 02-A-634-P2

EP	EU	EU Description	CE ID	CE Description	CEMS ID	Raw Material	Rated Capacity (MMBtu/hr)
CC2	EU2	Combustion Turbine-Combined Cycle Combustion Turbine and Heat Recovery Steam Generator with Duct Burner	CE5	Dry-Low NOx Combustors	ME3 ME4	Natural Gas	2,451.2
			CE7	Selective Catalytic Reduction			2,046 (Turbine) and 405.2 (Duct Burner)
			CE8	Oxidation Catalyst			

DNR Construction Permit Number: 02-A-636-P2

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: Opacity

BACT Emission Limit(s): 0%

Authority for Requirement: DNR Construction Permits 02-A-634-P2, 02-A-636-P2
 567 IAC 23.3(2)"d"

Pollutant: PM₁₀

BACT Emission Limit(s): 0.0072⁽¹⁾ lb/MMBtu, 77.1 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 02-A-634-P2, 02-A-636-P2

Pollutant: Particulate Matter (PM)

BACT Emission Limit(s): 0.0072⁽¹⁾ lb/MMBtu, 77.1 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 02-A-634-P2, 02-A-636-P2
567 IAC 23.3(2)"a"

Pollutant: Sulfur Oxides (SO₂)

BACT Emission Limit(s): 0.0022⁽¹⁾ lb/MMBtu, 23.7 tons/yr⁽²⁾ and 0.8 gr/100 scf

Authority for Requirement: Iowa DNR Construction Permits 02-A-634-P2, 02-A-636-P2
567 IAC 23.3(3)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limits: Sulfur Dioxide Allowances

Authority for Requirement: 567 IAC 22.108(7) (Attached Phase II Acid Rain Permit)

Pollutant: Nitrogen Oxides (NO_x)

BACT Emission Limit(s): 0.0114⁽¹⁾⁽³⁾ lb/MMBtu, 122.6 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 02-A-634-P2, 02-A-636-P2

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

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

Emission Limits: Nitrogen Oxides and Sulfur Dioxide Allowances

Authority for Requirement: 40 CFR Part 97 (See Appendix B for requirements)

Pollutant: Volatile Organic Compounds (VOC)

BACT Emission Limit(s): 0.0028⁽¹⁾ lb/MMBtu, 29.8 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 02-A-634-P2, 02-A-636-P2

Pollutant: Carbon Monoxide (CO)

BACT Emission Limit(s): 0.0116⁽¹⁾⁽³⁾ lb/MMBtu, 124.4 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 02-A-634-P2, 02-A-636-P2

Pollutant: Sulfuric Acid (H₂SO₄)

BACT Emission Limit(s): 0.0003⁽¹⁾ lb/MMBtu and 3.07 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 02-A-634-P2, 02-A-636-P2

⁽¹⁾ Heat input used shall be the higher heating value of the natural gas used.

⁽²⁾ Standard is a twelve-month rolling total.

⁽³⁾ Emission rate is a 3-hour rolling average.

NSPS Applicability

The combustion turbine is subject to Subparts A (General Provisions, 40 CFR §60.1 – 40 CFR §60.19) and GG (Standards of Performance for Stationary Gas Turbines, 40 CFR §60.330 – 40 CFR §60.335) of the New Source Performance Standards (NSPS).

The duct burners are subject to Subparts A (General Provisions, 40 CFR §60.1 – 40 CFR §60.19) and Da (Standards of Performance Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978, 40 CFR §60.40a – 40 CFR §60.49a) of the New Source Performance Standards (NSPS).

Operational Limits & Requirements

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

Operating Limits:

1. Operation of the turbines in combined cycle mode shall be limited to natural gas*
2. During combined cycle operation the turbine shall operate with the Dry-low NO_x combustors, SCR and Oxidation Catalyst while combusting natural gas.
3. The maximum sulfur content of the natural gas shall not exceed 0.8 gr/100 scf.

Reporting & Recordkeeping:

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

The owner/operator shall maintain the following records:

1. A fuel analysis shall be kept on file for the natural gas used in these units. The sulfur and nitrogen content of the fuel used in these units shall be determined and recorded as allowed per NSPS Subpart GG – Standards of Performance for Stationary Gas Turbines (40 CFR 60.334). The analyses shall be performed at least annually.⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permits 02-A-634-P2 (CC1) and
02-A-636-P2 (CC2)
*567 IAC 22.108(13)
40 CFR 60 Subpart GG
567 IAC 23.1(2)"aa"

⁽¹⁾ As stated in Appendix A of the letter of June 08, 2004 from JoAnn M. Heiman, Acting Chief, Air Permitting and Compliance Branch, USEPA Region VII, as long as IPL-Emery agrees to accept a value of zero (0) for the fuel bound nitrogen credit, no nitrogen sampling and analysis of the fuel is required (also as allowed by 40 CFR 60.332(a)(3)).

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 200

Stack Opening, (inches, dia.): 240

Exhaust Flow Rate (scfm): 489,300

Exhaust Temperature (°F): 160

Discharge Style: Unobstructed vertical

Authority for Requirement: Iowa DNR Construction Permits 02-A-634-P2, 02-A-636-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.

1. Method 9 opacity testing shall be completed on a monthly basis. Provided "no visible emissions" are observed on a daily basis during a calendar month, Method 9 testing shall be waived for that month. Records of "no visible emissions" shall be maintained on a daily basis for a minimum of five years.

Authority for Requirement: Iowa DNR Construction Permits 02-A-634-P2, 02-A-636-P2

Continuous Emissions Monitoring:

Compliance with the nitrogen oxide emission limit of this permit shall be continuously demonstrated by the owner/operator through the use of a CEMS. Therefore, a CEMS shall be installed, calibrated, maintained, and operated for measuring nitrogen oxides emissions in units of the standards discharged to the atmosphere from this unit and the output of the system shall be recorded. The system shall be designed to meet the 40 CFR 75, Appendix A, and Appendix C requirements. The specifications of 40 CFR 75 Appendix B (Quality Assurance/Quality Control) shall apply.

Compliance with the carbon monoxide emission limit of this permit shall be continuously demonstrated by the owner/operator through the use of a CEMS. Therefore, a CEMS shall be installed, calibrated, maintained, and operated for measuring carbon monoxide emissions in units of the standards discharged to the atmosphere from this unit and the output of the system shall be recorded. The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 3 (PS3), Performance Specification 4 (PS4) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60 Appendix F (Quality Assurance/Quality Control) shall apply. If PS3 is equivalent to 40 CFR 75 Appendix A, then 40 CFR 75 Appendix A may be used in place of PS3.

Missing data for both nitrogen oxides and carbon monoxide shall be treated according to 40 CFR 75 Appendix C (2).

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

Authority for Requirement: DNR Construction Permits 02-A-634-P2, 02-A-636-P2

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test 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: Combustion Turbines-Simple Cycle

Associated Equipment

See Table Below

Table: Combustion Turbines-Simple Cycle

Emission Point: EP, Emission Unit: EU, Control Equipment: CE

EP	EU	EU Description	CE ID	CE Description	Raw Material	Rated Capacity (MMBtu/hr)	Construction Permit Number
SC1	EU-1SC	Combustion Turbine-Simple Cycle	CE1	Dry-Low NOx Combustors	Natural Gas	2,046	02-A-633-P3
SC2	EU-2SC	Combustion Turbine-Simple Cycle	CE5	Dry-Low NOx Combustors	Natural Gas	2,046	02-A-635-P3

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: Opacity

BACT Emission Limit(s): 0%

Authority for Requirement: DNR Construction Permits 02-A-633-P3, 02-A-635-P3
567 IAC 23.3(2)"d"

Pollutant: PM₁₀

BACT Emission Limit(s): 0.0066⁽¹⁾ lb/MMBtu and 2.7 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 02-A-633-P3, 02-A-635-P3

Pollutant: Particulate Matter (PM)

BACT Emission Limit(s): 0.0066⁽¹⁾ lb/MMBtu and 2.7 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 02-A-633-P3, 02-A-635-P3
567 IAC 23.3(2)"a"

Pollutant: Sulfur Oxides (SO_x)

BACT Emission Limit(s): 0.0022⁽¹⁾ lb/MMBtu , 0.9 tons/yr⁽²⁾ and 0.8 gr/100 scf

Authority for Requirement: DNR Construction Permits 02-A-633-P3, 02-A-635-P3
567 IAC 23.3(3)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limits: Sulfur Dioxide Allowances

Authority for Requirement: 567 IAC 22.108(7) (Attached Phase II Acid Rain Permit)

Pollutant: Nitrogen Oxides (NO_x)

BACT Emission Limit(s): 0.0342⁽¹⁾⁽³⁾ lb/MMBtu and 14.0 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 02-A-633-P3, 02-A-635-P3

Pollutant: Volatile Organic Compounds (VOC)

BACT Emission Limit(s): 0.0016⁽¹⁾ lb/MMBtu and 0.64 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 02-A-633-P3, 02-A-635-P3

Pollutant: Carbon Monoxide (CO)

BACT Emission Limit(s): 0.0161⁽¹⁾⁽³⁾ lb/MMBtu and 6.6 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 02-A-633-P3, 02-A-635-P3

⁽¹⁾ Heat input used shall be the higher heating value of the natural gas used.

⁽²⁾ Standard is a twelve-month rolling total.

⁽³⁾ Emission rate is a 3-hour rolling average.

NSPS Applicability

The combustion turbine is subject to Subparts A (General Provisions, 40 CFR §60.1 – 40 CFR §60.19) and GG (Standards of Performance for Stationary Gas Turbines, 40 CFR §60.330 – 40 CFR §60.335) of the New Source Performance Standards (NSPS).

Operational Limits & Requirements

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

Operating Limits

1. Operation of the turbines in simple cycle mode shall be limited to natural gas*
2. Operation of each turbine in simple cycle mode using natural gas shall be limited to 400 hours per twelve (12) month rolling period. Usage shall be limited to energy accreditation activities, periods of forced outage of the Heat Recovery Steam Generator (HRSG), or during periods of forced outage of the steam turbine. Operation of the turbines to meet the Continuous Emission Monitoring requirements of 40 CFR Part 75 & Relative Accuracy Test Audits (RATA) are allowed.
3. During simple cycle operation the turbines shall operate with the Dry-Low NO_x combustors while combusting natural gas.
4. The maximum sulfur content of the natural gas shall not exceed 0.8 gr/100 scf.

Reporting & Recordkeeping

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

The owner/operator shall maintain the following records:

1. Determine the cumulative number of hours that each turbine operates in simple cycle mode using natural gas on a rolling 12-month basis for each month.
2. A record of the circumstances pertaining to the forced outage of the HRSG or the steam turbine.

3. A record of the circumstances pertaining to the energy accreditation activities or outage of the gas pipeline.
4. A fuel analysis shall be kept on file for the natural gas used in these units. The sulfur and nitrogen content of the fuel used in these units shall be determined and recorded as allowed per NSPS Subpart GG – Standards of Performance for Stationary Gas Turbines (40 CFR 60.334). The analyses shall be performed at least annually.⁽¹⁾

Authority for Requirement: DNR Construction Permits 02-A-633-P3, 02-A-635-P3
*567 IAC 22.108(13)
40 CFR 60 Subpart GG
567 IAC 23.1(2)"aa"

⁽¹⁾ As stated in Appendix A of the letter of June 08, 2004 from JoAnn M. Heiman, Acting Chief, Air Permitting and Compliance Branch, USEPA Region VII, as long as IPL-Emery agrees to accept a value of zero (0) for the fuel bound nitrogen credit, no nitrogen sampling and analysis of the fuel is required (also as allowed by 40 CFR 60.332(a)(3)).

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 150

Stack Opening, (inches, dia.): 216

Exhaust Flow Rate (scfm): 489,300

Exhaust Temperature (°F): 1,025

Discharge Style: Unobstructed vertical

Authority for Requirement: DNR Construction Permits 02-A-633-P3, 02-A-635-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.

1. Method 9 opacity testing shall be completed on a monthly basis. Provided "no visible emissions" are observed on a daily basis during a calendar month, Method 9 testing shall be waived for that month. Records of "no visible emissions" shall be maintained on a daily basis for a minimum of five years.

Authority for Requirement: DNR Construction Permits 02-A-633-P3, 02-A-635-P3

Continuous Emissions Monitoring:

Compliance with the nitrogen oxide emission limit of this permit shall be continuously demonstrated by the owner/operator through the use of a CEMS. Therefore, a CEMS shall be installed, calibrated, maintained, and operated for measuring nitrogen oxides emissions in units of the standards discharged to the atmosphere from this unit and the output of the system shall be

recorded. The system shall be designed to meet the 40 CFR 75, Appendix A, and Appendix C requirements. The specifications of 40 CFR 75 Appendix B (Quality Assurance/Quality Control) shall apply. In lieu of a CEMS, IPL may propose parametric monitoring protocol, which is subject to review & acceptance by the Department. The protocol shall be required to undergo a 30-day public comment period. In lieu of a CEMS, IPL may also utilize the unit's maximum emission rate for nitrogen dioxide, as measured in performance testing required by IDNR Construction Permits 02-A-633-P3 and 02-A-635-P3, and following 40 CFR 75.17(d)(2) requirements.

Compliance with the carbon monoxide emission limit of this permit shall be continuously demonstrated by the owner/operator through the use of a CEMS. Therefore, a CEMS shall be installed, calibrated, maintained, and operated for measuring carbon monoxide emissions in units of the standards discharged to the atmosphere from this unit and the output of the system shall be recorded. The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 3 (PS3), Performance Specification 4 (PS4) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60 Appendix F (Quality Assurance/Quality Control) shall apply. If PS3 is equivalent to 40 CFR 75 Appendix A, then 40 CFR 75 Appendix A may be used in place of PS3. In lieu of a CEMS, IPL may propose parametric monitoring protocol, which is subject to review & acceptance by the Department. The protocol shall be required to undergo a 30-day public comment period. In lieu of a CEMS, IPL may also utilize the unit's maximum emission rate for carbon monoxide, as measured in performance testing required by IDNR Construction Permits 02-A-633-P3 and 02-A-635-P3, and following 40 CFR 75.17(d)(2) requirements.

Missing data for both nitrogen oxides and carbon monoxide shall be treated according to 40 CFR 75 Appendix C (2).

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

Authority for Requirement: DNR Construction Permits 02-A-633-P3, 02-A-635-P3

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test 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: Gas Heaters

Associated Equipment
See Table Below

Table: Gas Heaters

Emission Point: EP, Emission Unit: EU, Control Equipment: CE

EP	EU	EU Description	CE	CE Description	Raw Material	Rated Capacity (MMBtu/Hr.)	Construction Permit Number
GH1	EU3	Gas Heater A	CE9	Dry-Low NOx Burner	Natural Gas	16.4	02-A-637-P2
	EU4	Gas Heater B			Natural Gas	16.4	

Applicable Requirements

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

The emissions from each emission unit shall not exceed the levels specified below.

Pollutant: Opacity

BACT Emission Limit(s): 0%

Authority for Requirement: DNR Construction Permit 02-A-637-P2
567 IAC 23.3(2)"d"

Pollutant: PM₁₀

BACT Emission Limit(s): 0.0075⁽¹⁾ lb/MMBtu and 0.37 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permit 02-A-637-P2

Pollutant: Particulate Matter (PM)

BACT Emission Limit(s): 0.0075⁽¹⁾ lb/MMBtu and 0.37 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permit 02-A-637-P2

Pollutant: Sulfur Dioxide (SO₂)

BACT Emission Limit(s): 0.0006⁽¹⁾ lb/MMBtu , 0.03 tons/yr⁽²⁾ and 0.8 gr/100 scf

Authority for Requirement: DNR Construction Permit 02-A-637-P2

Pollutant: Nitrogen Oxides (NO_x)

BACT Emission Limit(s): 0.049⁽¹⁾ lb/MMBtu and 2.41 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permit 02-A-637-P2

Pollutant: Volatile Organic Compounds (VOC)

BACT Emission Limit(s): 0.0054⁽¹⁾ lb/MMBtu and 0.27 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permit 02-A-637-P2

Pollutant: Carbon Monoxide (CO)

BACT Emission Limit(s): 0.082⁽¹⁾ lb/MMBtu and 4.03 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permit 02-A-637-P2

⁽¹⁾ Heat input used should be the higher heating value of the natural gas used.

⁽²⁾ Standard is a twelve-month rolling total.

Operational Limits & Requirements

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

Operating Limit

1. These units shall be fired with natural gas only.
2. The maximum sulfur content of the natural gas shall not exceed 0.8 gr/100 scf.
3. Natural gas usage for Gas Heater A (GHA) shall not exceed 96,470,588 scf per twelve-month rolling period.
4. Natural gas usage for Gas Heater B (GHB) shall not exceed 96,470,588 scf per twelve-month rolling period.

Reporting & Recordkeeping

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

The owner/operator shall maintain the following records:

1. A fuel analysis shall be kept on file for each fuel used in these units. The analyses performed on the natural gas for the combustion turbines (as required by 40 CFR 60.334(h)) shall be sufficient to satisfy this requirement. The analyses shall be performed at least annually.⁽¹⁾
2. Determine the cumulative natural gas usages for Gas Heater A (GHA) and Gas Heater B (GHB) on a rolling 12-month basis for each month for each heater.

Authority for Requirement: DNR Construction Permit 02-A-637-P2

⁽¹⁾ As stated in Appendix A of the letter of June 08, 2004 from JoAnn M. Heiman, Acting Chief, Air Permitting and Compliance Branch, USEPA Region VII, as long as IPL-Emery agrees to accept a value of zero (0) for the fuel bound nitrogen credit, no nitrogen sampling and analysis of the fuel is required. The only natural gas used is pipeline grade, and the fuel sample collected for the combustion turbines is representative of the fuel used for these units, so no additional sampling is required.

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 150

Stack Opening, (inches, dia.): 24.4

Exhaust Flow Rate (scfm): 9,750 (for one heater operating), 19,500 (for two heaters operating)

Exhaust Temperature (°F): 540

Discharge Style: Unobstructed vertical

Authority for Requirement: DNR Construction Permits 02-A-637-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: See Table: Black Start Generators

Associated Equipment
See Table Below

Table: Black Start Generators

Emission Point: EP, Emission Unit: EU

EP	EU	EU Description	Raw Material	Rated Capacity (MMBtu/Hr.)	Construction Permit Number
BSG1	EU8	Black Start Generator	Fuel Oil	20.5	02-A-644-P2
BSG2	EU9	Black Start Generator	Fuel Oil	20.5	02-A-645-P2
BSG3	EU10	Black Start Generator	Fuel Oil	20.5	02-A-646-P2
BSG4	EU11	Black Start Generator	Fuel Oil	20.5	02-A-647-P2
BSG5	EU12	Black Start Generator	Fuel Oil	20.5	02-A-648-P2
BSG6	EU15	Black Start Generator	Fuel Oil	20.5	03-A-1372-P1

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

BACT Emission Limit(s): 20%

Authority for Requirement: DNR Construction Permits specified in Table: Black Start Generators
567 IAC 23.3(2)"d"

Pollutant: PM₁₀

BACT Emission Limit(s): 0.25 tons/yr and 0.1 lb/MMBtu

Authority for Requirement: DNR Construction Permits specified in Table: Black Start Generators

Pollutant: Particulate Matter (PM)

BACT Emission Limit(s): 0.25 tons/yr and 0.1 lb/MMBtu

Authority for Requirement: DNR Construction Permits specified in Table: Black Start Generators

Pollutant: Sulfur Dioxide (SO₂)

BACT Emission Limit(s): 0.1 tons/yr and 0.051 lb/MMBtu

Authority for Requirement: DNR Construction Permits specified in Table: Black Start Generators

Pollutant: Nitrogen Oxides (NO_x)
BACT Emission Limit(s): 3.90 tons/yr and 1.9 lb/MMBtu
Authority for Requirement: DNR Construction Permits specified in Table: Black Start Generators

Pollutant: Volatile Organic Compounds (VOC)
BACT Emission Limit(s): 0.18 tons/yr and 0.09 lb/MMBtu
Authority for Requirement: DNR Construction Permits specified in Table: Black Start Generators

Pollutant: Carbon Monoxide (CO)
BACT Emission Limit(s): 1.74tons/yr and 0.85 lb/MMBtu
Authority for Requirement: DNR Construction Permits specified in Table: Black Start Generators

Other Emission Limits

Pollutant: PM₁₀
Emission Limit(s): 2.05 lb/hr
Authority for Requirement: DNR Construction Permits specified in Table: Black Start Generators

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 1.04 lb/hr and 2.5 lb/MMBtu
Authority for Requirement: DNR Construction Permits specified in Table: Black Start Generators
567 IAC 23.3(3)"b"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 38.95 lb/hr
Authority for Requirement: DNR Construction Permits specified in Table: Black Start Generators

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 17.43 lb/hr
Authority for Requirement: DNR Construction Permits specified in Table: Black Start Generators

Operational Limits & Requirements

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

Operating Limits

1. These emission units shall be fired with fuel oil only.
2. The maximum sulfur content of the fuel used shall not exceed 0.05% by weight.
3. Each emission unit shall not operate more than 200 hours twelve-month rolling total each.

Reporting & Recordkeeping

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

The owner/operator shall maintain the following records:

1. A fuel certificate shall be kept for each delivery received showing for these units showing the type of fuel delivered along with the sulfur content of the fuel.
2. Determine the annual hours of operation for each emission unit on a rolling twelve-month basis for each month.

Authority for Requirement: DNR Construction Permits specified in Table: Black Start Generators

NESHAP:

These black start engines are 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)(1)(iii) this black start engine, located at an area source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

Operation and Maintenance Requirements 40 CFR 63.6603, 63.6625, and Tables 2d and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

5. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Notification and Reporting Requirements 40 CFR 63.6645 and 6650

1. An initial notification is not required per 40 CFR 63.6645(a)(5).
2. Comply with applicable notification requirements in 40 CFR 63.6645 and reporting requirements in 40 CFR 63.6650.

Recordkeeping Requirements 40 CFR 63.6655

1. Keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan.
2. Comply with applicable recordkeeping requirements in 40 CFR 63.6655.

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

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 60

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 6,500

Exhaust Temperature (°F): 700

Discharge Style: Unobstructed vertical

Authority for Requirement: DNR Construction Permits specified in Table: Black Start
Generators

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: See Table: Dew Point Heater

Associated Equipment

Associated Emission Unit ID Numbers: EU14
Emissions Control Equipment ID Number: CE14
Emissions Control Equipment Description: Dry-Low NOx Burner

Table: Dew Point Heater

Emission Point Number	Associated Emission Unit Number	<u>Emission Unit Description</u>	Raw Material	Rated Capacity (MMBtu/Hr.)	Construction Permit Number
DPH1	EU14	Dew Point Heater	Natural Gas	9	03-A-281-P
DPH2					03-A-282-P

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.

Pollutant: Opacity

BACT Emission Limit(s): 0%

Authority for Requirement: DNR Construction Permits 03-A-281-P, 03-A-282-P
567 IAC 23.3(2)"d"

Pollutant: PM₁₀

BACT Emission Limit(s): 0.0075⁽¹⁾ lb/MMBtu and 0.29 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 03-A-281-P, 03-A-282-P

Pollutant: Particulate Matter (PM)

BACT Emission Limit(s): 0.0075⁽¹⁾ lb/MMBtu and 0.29 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 03-A-281-P, 03-A-282-P

Pollutant: Sulfur Dioxide (SO₂)

BACT Emission Limit(s): 0.0006⁽¹⁾ lb/MMBtu , 0.02 tons/yr⁽²⁾ and 0.8 gr/100 scf

Authority for Requirement: DNR Construction Permits 03-A-281-P, 03-A-282-P

Pollutant: Nitrogen Oxides (NO_x)

BACT Emission Limit(s): 0.049⁽¹⁾ lb/MMBtu and 1.93 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 03-A-281-P, 03-A-282-P

Pollutant: Volatile Organic Compounds (VOC)

BACT Emission Limit(s): 0.0054⁽¹⁾ lb/MMBtu and 0.21 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 03-A-281-P, 03-A-282-P

Pollutant: Carbon Monoxide (CO)

BACT Emission Limit(s): 0.082⁽¹⁾ lb/MMBtu and 3.25 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permits 03-A-281-P, 03-A-282-P

⁽¹⁾ Heat input used should be the higher heating value of the natural gas used.

⁽²⁾ Standard is a twelve-month rolling total.

Operational Limits & Requirements

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

Operating Limits

1. The Dew Point Gas Heater shall be fired with natural gas only.
2. The maximum sulfur content of the natural gas shall not exceed 0.8 gr/100 scf.
3. Natural gas usage for the Dew Point Gas Heater shall not exceed 78,840,000 scf per twelve-month rolling period.

Reporting & Recordkeeping

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

The owner/operator shall maintain the following records:

1. A fuel analysis shall be kept on file for each fuel used in these units. The analyses performed on the natural gas for the combustion turbines (as required by 40 CFR 60.334(h)) shall be sufficient to satisfy this requirement. The analyses shall be performed at least annually.⁽¹⁾
2. Record the amount of natural gas used for the Dew Point Gas Heaters per 12-month rolling period.

Authority for Requirement: DNR Construction Permits 03-A-281-P, 03-A-282-P

⁽¹⁾ As stated in Appendix A of the letter of June 08, 2004 from JoAnn M. Heiman, Acting Chief, Air Permitting and Compliance Branch, USEPA Region VII, as long as IPL-Emery agrees to accept a value of zero (0) for the fuel bound nitrogen credit, no nitrogen sampling and analysis of the fuel is required. The only natural gas used is pipeline grade, and the fuel sample collected for the combustion turbines is representative of the fuel used for these units, so no additional sampling is required.

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 25

Stack Opening, (inches, dia.): 17

Exhaust Flow Rate (scfm): 979

Exhaust Temperature (°F): 650

Discharge Style: Vertical w/o rain cap or w/unobstructing rain cap

Authority for Requirement: DNR Construction Permits 03-A-281-P, 03-A-282-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: AB1

Associated Equipment

Associated Emission Unit ID Number: EU5

Emissions Control Equipment ID Number: CE11, CE12

Emissions Control Equipment Description: Dry-Low NOx Burner, Catalytic Oxidation

Emission Unit vented through this Emission Point: EU5

Emission Unit Description: Auxiliary Boiler

Raw Material/Fuel: Natural Gas

Rated Capacity: 68 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.

Pollutant: Opacity

BACT Emission Limit(s): 0%

Authority for Requirement: DNR Construction Permit 02-A-641-P1
567 IAC 23.3(2)"d"

Pollutant: PM₁₀

BACT Emission Limit(s): 0.0075⁽¹⁾ lb/MMBtu and 1.52⁽²⁾ tons/yr

Authority for Requirement: DNR Construction Permit 02-A-641-P1

Pollutant: Particulate Matter (PM)

BACT Emission Limit(s): 0.0075⁽¹⁾ lb/MMBtu and 1.52⁽²⁾ tons/yr

Authority for Requirement: DNR Construction Permit 02-A-641-P1

Pollutant: Sulfur Dioxide (SO₂)

BACT Emission Limit(s): 0.0006⁽¹⁾ lb/MMBtu and 0.12⁽²⁾ tons/yr

Authority for Requirement: DNR Construction Permit 02-A-641-P1

Pollutant: Nitrogen Oxides (NO_x)

BACT Emission Limit(s): 0.049⁽¹⁾ lb/MMBtu and 10.0⁽²⁾ tons/yr

Authority for Requirement: DNR Construction Permit 02-A-641-P1

Pollutant: Volatile Organic Compounds (VOC)

BACT Emission Limit(s): 0.0054⁽¹⁾ lb/MMBtu and 1.10⁽²⁾ tons/yr

Authority for Requirement: DNR Construction Permit 02-A-641-P1

⁽¹⁾ Heat input used should be the higher heating value of the natural gas used.

⁽²⁾ Standard is a twelve-month rolling total.

Pollutant: Carbon Monoxide (CO)

BACT Emission Limit(s): 0.0164⁽¹⁾ lb/MMBtu and 3.35⁽²⁾ tons/yr

Authority for Requirement: DNR Construction Permit 02-A-641-P

⁽¹⁾ Heat input used shall be the higher heating value of the natural gas used.

⁽²⁾ Standard is a twelve-month rolling total.

NSPS Applicability

The Auxiliary Boiler is subject to NSPS Subpart Dc – Standards of Performance for Small Industrial-Commercial Institutional Steam Generating Units (beginning of 40 CFR §60.40c). Subject to the General Provisions of Subpart A.

Operational Limits & Requirements

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

Operating Limits

1. The Auxiliary Boiler shall be fired with natural gas only.
2. The Auxiliary Boiler shall operate no more than 6,000 hours per twelve-month rolling period.
3. The maximum sulfur content of the natural gas shall not exceed 0.8 gr/100 scf.

Reporting & Recordkeeping

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

The owner/operator shall maintain the following records:

1. A fuel analysis shall be kept on file for each fuel used in this unit. The analyses performed on the natural gas for the combustion turbines (as required by 40 CFR 60.334(b)) shall be sufficient to satisfy this requirement. The analyses shall be performed at least annually.⁽¹⁾
2. A record of the number of hours the Auxiliary Boiler is operated per twelve-month rolling period.

Authority for Requirement: DNR Construction Permit 02-A-641-P1

⁽¹⁾ As stated in Appendix A of the letter of June 08, 2004 from JoAnn M. Heiman, Acting Chief, Air Permitting and Compliance Branch, USEPA Region VII, as long as IPL-Emery agrees to accept a value of zero (0) for the fuel bound nitrogen credit, no nitrogen sampling and analysis of the fuel is required. The only natural gas used is pipeline grade, and the fuel sample collected for the combustion turbines is representative of the fuel used for these units, so no additional sampling is required.

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 150
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (scfm): 15,261
Exhaust Temperature (°F): 300
Discharge Style: Vertical w/o rain cap or w/ unobstructing rain cap
Authority for Requirement: DNR Construction Permit 02-A-641-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: CT1

Associated Equipment

Associated Emission Unit ID Number: EU6

Emissions Control Equipment ID Number: CE13

Emissions Control Equipment Description: High Efficiency Drift Eliminators

Emission Unit vented through this Emission Point: EU6

Emission Unit Description: Mechanical Draft Cooling Tower

Raw Material/Fuel: Process Water

Rated Capacity: 8,400,000 Gal/hr

Applicable Requirements

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

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

Pollutant: Opacity

BACT Emission Limit(s): 0%

Authority for Requirement: DNR Construction Permit 02-A-642-P1
567 IAC 23.3(2)"d"

Pollutant: PM₁₀

BACT Emission Limit(s): 1.224 lb/hr and 5.36⁽¹⁾ tons/yr

Authority for Requirement: DNR Construction Permit 02-A-642-P1

Pollutant: Particulate Matter (PM)

BACT Emission Limit(s): 1.224 lb/hr and 5.36⁽¹⁾ tons/yr

Authority for Requirement: DNR Construction Permit 02-A-642-P1

⁽¹⁾ Standard is a twelve-month rolling total.

Operational Limits & Requirements

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

Operating Limits

1. The circulating water in the cooling tower shall not exceed 4800 parts per million (ppm) total dissolved solids (TDS). Monitoring of the TDS shall be conducted on a monthly schedule.
2. The cooling tower shall be operated and maintained per the manufacturer's specifications and instructions.

Reporting & Recordkeeping

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

The owner/operator shall maintain the following records:

1. Maintain records on-site of the TDS concentration in the cooling tower circulating water. Records shall also be kept of the dates of measurement and the methods used to determine the concentration of the TDS in the cooling water.
2. Maintain records of all maintenance and repair to the cooling tower.

Authority for Requirement: DNR Construction Permit 02-A-642-P1

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 48

Stack Opening, (inches, dia.): 404

Exhaust Flow Rate (scfm): 1,573,188

Exhaust Temperature (°F): 101

Discharge Style: Vertical w/o rain cap or w/ unobstructing rain cap

Authority for Requirement: Iowa DNR Construction Permit 02-A-642-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: FP1

Associated Equipment

Associated Emission Unit ID Number: EU7

Emission Unit vented through this Emission Point: EU7
Emission Unit Description: Emergency Fire Pump
Raw Material/Fuel: Distillate Oil
Rated Capacity: 2.59 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.

Pollutant: Opacity

BACT Emission Limit(s): 20%

Authority for Requirement: DNR Construction Permit 02-A-643-P1
567 IAC 23.3(2)"d"

Pollutant: PM₁₀

BACT Emission Limit(s): 0.31 lb/MMBtu and 0.04 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 02-A-643-P1

Pollutant: Particulate Matter (PM)

BACT Emission Limit(s): 0.31 lb/MMBtu and 0.04 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 02-A-643-P1

Pollutant: Sulfur Dioxides (SO₂)

BACT Emission Limit(s): 0.29 lb/MMBtu, 0.04 tons/yr⁽¹⁾ and 0.05% by wt.

Authority for Requirement: DNR Construction Permit 02-A-643-P1
567 IAC 23.3(3)

Pollutant: Nitrogen Oxide (NO_x)

BACT Emission Limit(s): 4.41 lb/MMBtu and 0.59 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 02-A-643-P1

Pollutant: Volatile Organic Compounds (VOC)

BACT Emission Limit(s): 0.36 lb/MMBtu and 0.05 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 02-A-643-P1

Pollutant: Carbon Monoxide (CO)

BACT Emission Limit(s): 0.95 lb/MMBtu and 0.13 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 02-A-643-P1

⁽¹⁾ Standard is a twelve-month rolling total.

Operational Limits & Requirements

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

Operating Limits

1. This unit shall be fired with No. 2 distillate oil only.
2. The maximum sulfur content of the No. 2 distillate oil shall not exceed 0.05% by weight.
3. The fire pump shall not operate more than 104 hours per twelve-month rolling total period.
4. The use of this pump shall be limited to periods of testing and exercising of the engine and emergency use only. The testing and exercising of the engine shall be limited to the time recommended by the manufacturer of the engine.
5. The fire pump shall be operated and maintained per the manufacturer's instructions and specifications.

Reporting & Recordkeeping

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

The owner/operator shall maintain the following records:

1. A fuel certification shall be kept for each fuel delivery received for this unit. This certification shall show the type of fuel delivered along with the sulfur content of the fuel.
2. A record of the number of hours the Fire Pump has operated per twelve-month rolling total period.
3. A copy of the manufacturer's documentation for the unit shall be maintained on site for review. This documentation shall specifically cover the recommendation for testing and exercising the unit.
4. Maintain a record of all maintenance and repair to the fire pump.

Authority for Requirement: DNR Construction Permit 02-A-643-P1

NESHAP:

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)(1)(iii) this compression ignition emergency engine, located at an area source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

Operation and Maintenance Requirements 40 CFR 63.6603, 63.6625, 63.6640 and Tables 2d and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

1. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
2. There is no time limit on the use of emergency stationary RICE in emergency situations.
3. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
4. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing. Except as provided in 40 CFR 63.6640(f)(4)(i) and (ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Recordkeeping Requirements 40 CFR 63.6655

3. Keep records of the maintenance conducted on the stationary RICE.
4. Keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. See 40 CFR 63.6655(f) for additional information.

Notification and Reporting Requirements 40 CFR 63.6645, 63.6650 and Table 2d to Subpart ZZZZ

3. An initial notification is not required per 40 CFR 63.6645(a)(5)
4. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2d. (See Footnote 2 of Table 2d for more information.)

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

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 8
Stack Opening, (inches, dia.): 8
Exhaust Flow Rate (scfm): 1,031
Exhaust Temperature (°F): 752
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 02-A-643-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: FT1

Associated Equipment

Associated Emission Unit ID Number: EU13

Emission Unit vented through this Emission Point: EU13

Emission Unit Description: Fuel Oil Storage Tank

Raw Material/Fuel: Fuel Oil

Rated Capacity: 300,000 gal., 749.2 gal/hr

Applicable Requirements

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

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.0114 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 02-A-649-P

Operational Limits & Requirements

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

Operating Limit

1. The vapor pressure for any material stored shall not exceed 5.2 kilopascals (kPa).

Reporting & Recordkeeping

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

The owner/operator shall maintain the following records:

1. Records demonstrating the dimensions of the storage vessel and the capacity.
2. A record of the volatile organic liquid stored, the period of storage and the maximum vapor pressure of the liquid.

Authority for Requirement: Iowa DNR Construction Permit 02-A-649-P

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: FT2

Associated Equipment

Associated Emission Unit ID Number: EU99

Emission Unit vented through this Emission Point: EU99

Emission Unit Description: 300 Gallon Gasoline Tank

Raw Material/Fuel: Gasoline

Rated Capacity: 300 gal

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.

There are no emission limits at this time.

Operational Limits & Requirements

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

NESHAP:

This emission unit is subject to the requirements of 40 CFR 63 Subpart CCCCCC – National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities. The facility shall comply with the applicable requirements listed in this subpart.

Authority of Requirement: 40 CFR 63 CCCCCC
567 IAC 23.1(4)"ec"

§ 63.11116 Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline.

1. You must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
 - A. Minimize gasoline spills;
 - B. Clean up spills as expeditiously as practicable;
 - C. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
 - D. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.
2. You are not required to submit notifications or reports as specified in § 63.11125, § 63.11126, or subpart A of this part, but you must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.
3. You must comply with the requirements of this subpart by the applicable dates specified in § 63.11113.

4. Portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable for compliance with paragraph (a)(3) of this section.

Authority of Requirement: 40 CFR 63 CCCCCC
567 IAC 23.1(4)"ec"

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, Wallace State Office Building, 502 E 9th St., Des Moines, IA 50319-0034, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permitting & Standards Branch, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and 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 emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

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.
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 or greenhouse gas generating substances to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

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

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

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

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

b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.

3. A permit shield shall not alter or affect the following:

a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

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

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-9545

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:

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

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

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

Reports or notifications to the 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

1101 Commercial Court, Suite 10
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

Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(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
1020 6th Street SE
Cedar Rapids, IA 52401
(319) 892-6000

V. Appendix

Appendix A: Links to Standards

40 CFR Part 60 Subpart A-General Provisions

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-A>

40 CFR Part 60 Subpart GG – Standard Performance for Stationary Gas Turbines

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-GG>

40 CFR Part 60 Subpart Da – Standards of Performance for Electric Utility Steam Generating Units

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Da>

40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial- Commercial Institutional Steam Generating Units

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Dc>

40 CFR Part 63 Subpart A – General Provisions

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-A>

40 CFR Part 63 Subpart ZZZZ – Standard Performance for Stationary Reciprocating Internal Combustion Engines

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ>

40 CFR Part 63 Subpart CCCCCC – National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-CCCCCC>

Appendix B: Acid Rain Phase II Permit



AIR QUALITY BUREAU
Wallace State Office Bldg.
502 E 9th St.
Des Moines, IA 50319-0034

Phase II Acid Rain Permit

Issued to: Emery Station
Operated by: Interstate Power and Light (Alliant Energy)
ORIS code: 8031
Effective: March 17, 2022 through March 16, 2027

For the Director of the Department of Natural Resources

A handwritten signature in blue ink that reads "Marnie Stein".

03/17/2022

Marnie Stein, Supervisor of Operating Permits Section

Date

Acid Rain Permit comprises the following:

- 1) Statement of Basis.
- 2) SO₂ 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) SO₂ Allowance Allocations and NO_x Requirements for each affected unit

		2022	2023	2024	2025	2026	2027
Unit 11	SO ₂ allowances, under Table 2 40 CFR part 73.	255*	255*	255*	255*	255*	255*

		2022	2023	2024	2025	2026	2027
Unit 12	SO ₂ allowances, under Table 2 40 CFR part 73.	255*	255*	255*	255*	255*	255*

*The number of allowances allocated to Phase II affected units by U.S. EPA may change in 40 CFR part 73 Tables 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 SO₂ allowance allocations identified in this permit (See 40 CFR 72.84).

3) Comments, Notes and Justifications: Renewal #4 of the Phase II SO₂ permit.

4) Permit Application: Attached.

IPL/Emery Generating Station

STEP 3**Permit Requirements****Read the standard 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).
- (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.

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STEP 3, Cont'd.**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;
 - (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.

IPL/Emery Generating Station

STEP 3, Cont'd.**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 to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (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.

STEP 4**Certification**

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 Jeffrey C Hanson	
Signature 	Date June 23, 2021



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.**

Appendix C: CSAPR Conditions

Transport Rule (TR) Trading Program Title V Requirements

Description of TR Monitoring Provisions

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

Unit ID: 11 (ORIS Code: 8031) (TV EU1) Emery Station - 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: 12 (ORIS Code: 8031) (TV EU 2)

Emery Station - 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	-----		

1. The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR 97.430 through 97.435 (TR NO_x Annual Trading Program), 97.530 through 97.535 (TR NO_x Ozone Season Trading Program), and 97.630 through 97.635 (TR SO₂ Group 1 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable TR trading programs.

2. Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA’s website at <https://www.epa.gov/airmarkets/monitoring-plans-part-75-sources#monMethod>.

3. Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR part 75, subpart E and 40 CFR 75.66 and 97.435 (TR NO_x Annual Trading Program), 97.535 (TR NO_x Ozone Season Trading Program) and/or 97.635 (TR SO₂ Group 1 Trading Program). The Administrator’s response approving or disapproving any petition for an alternative monitoring system is available on the EPA’s website at <http://www.epa.gov/airmarkets/part-75-petition-responses>.

4. Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR 97.430 through 97.434 (TR NO_x Annual Trading Program), 97.530 through 97.534 (TR NO_x Ozone Season Trading Program) and/or 97.630 through 97.634

(TR SO₂ Group 1 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.435 (TR NO_x Annual Trading Program), 97.535 (TR NO_x Ozone Season Trading Program) and/or 97.635 (TR SO₂ Group 1 Trading Program). The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on EPA's website at <http://www.epa.gov/airmarkets/part-75-petition-responses>.

5. The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR 97.430 through 97.434 (TR NO_x Annual Trading Program), 97.530 through 97.534 (TR NO_x Ozone Season Trading Program) and 97.630 through 97.634 (TR SO₂ Group 1 Trading Program), and therefore minor permit modification procedures, in accordance with 40 CFR 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B), may be used to add to or change this unit's monitoring system description.

TR NO_x Annual Trading Program requirements (40 CFR 97.406)

(a) Designated representative requirements.

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

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

- (1) The owners and operators, and the designated representative, of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.431 (initial monitoring system certification and recertification procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
- (2) The emissions data determined in accordance with 40 CFR 97.430 through 97.435 shall be used to calculate allocations of TR NO_x Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the TR NO_x Annual emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_x emissions requirements.

- (1) TR NO_x Annual emissions limitation.
 - (i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall hold, in the source's compliance account, TR NO_x Annual allowances available for deduction for such control period under 40 CFR 97.424(a)

in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Annual units at the source.

- (ii). If total NO_x emissions during a control period in a given year from the TR NO_x Annual units at a TR NO_x Annual source are in excess of the TR NO_x Annual emissions limitation set forth in paragraph (c)(1)(i) above, then:
 - (A). The owners and operators of the source and each TR NO_x Annual unit at the source shall hold the TR NO_x Annual allowances required for deduction under 40 CFR 97.424(d); and
 - (B). The owners and operators of the source and each TR NO_x Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.

(2) TR NO_x Annual assurance provisions.

- (i). If total NO_x emissions during a control period in a given year from all TR NO_x Annual units at TR NO_x Annual sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO_x Annual allowances available for deduction for such control period under 40 CFR 97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.425(b), of multiplying— (A) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NO_x emissions from all TR NO_x Annual units at TR NO_x Annual sources in the state for such control period exceed the state assurance level.
- (ii). The owners and operators shall hold the TR NO_x Annual allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
- (iii). Total NO_x emissions from all TR NO_x Annual units at TR NO_x Annual sources in the State during a control period in a given year exceed the state assurance level if such total NO_x emissions exceed the sum, for such control period, of the state NO_x Annual trading budget under 40 CFR 97.410(a) and the state's variability limit under 40 CFR 97.410(b).
- (iv). It shall not be a violation of 40 CFR part 97, subpart AAAAA or of the Clean Air Act if total NO_x emissions from all TR NO_x Annual units at TR NO_x Annual

- sources in the State during a control period exceed the state assurance level or if a common designated representative's share of total NO_x emissions from the TR NO_x Annual units at TR NO_x Annual sources in the state during a control period exceeds the common designated representative's assurance level.
- (v). To the extent the owners and operators fail to hold TR NO_x Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
 - (A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
 - (B). Each TR NO_x Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.
- (3) Compliance periods.
- (i). A TR NO_x Annual unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.
 - (ii). A TR NO_x Annual unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.
- (4) Vintage of allowances held for compliance.
- (i). A TR NO_x Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR NO_x Annual allowance that was allocated for such control period or a control period in a prior year.
 - (ii). A TR NO_x Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NO_x Annual allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
- (5) Allowance Management System requirements. Each TR NO_x Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart AAAAA.
- (6) Limited authorization. A TR NO_x Annual allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:
- (i). Such authorization shall only be used in accordance with the TR NO_x Annual Trading Program; and
 - (ii). Notwithstanding any other provision of 40 CFR part 97, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
- (7) Property right. A TR NO_x Annual allowance does not constitute a property right.

(d) Title V permit revision requirements.

- (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_x Annual allowances in accordance with 40 CFR part 97, subpart AAAAA.
- (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.430 through 97.435, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.406(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

- (1) Unless otherwise provided, the owners and operators of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
 - (i). The certificate of representation under 40 CFR 97.416 for the designated representative for the source and each TR NO_x Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.416 changing the designated representative.
 - (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart AAAAA.
 - (iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NO_x Annual Trading Program.
- (2) The designated representative of a TR NO_x Annual source and each TR NO_x Annual unit at the source shall make all submissions required under the TR NO_x Annual Trading Program, except as provided in 40 CFR 97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.

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

(g) Effect on other authorities.

No provision of the TR NO_x Annual Trading Program or exemption under 40 CFR 97.405 shall be construed as exempting or excluding the owners and operators, and the designated

representative, of a TR NO_x Annual source or TR NO_x Annual unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

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

(a) Designated representative requirements.

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

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

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

(c) NO_x emissions requirements.

- (1) TR NO_x Ozone Season emissions limitation.
 - (i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, TR NO_x Ozone Season allowances available for deduction for such control period under 40 CFR 97.524(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Ozone Season units at the source.
 - (ii). If total NO_x emissions during a control period in a given year from the TR NO_x Ozone Season units at a TR NO_x Ozone Season source are in excess of the TR NO_x Ozone Season emissions limitation set forth in paragraph (c)(1)(i) above, then:
 - (A). The owners and operators of the source and each TR NO_x Ozone Season unit at the source shall hold the TR NO_x Ozone Season allowances required for deduction under 40 CFR 97.524(d); and
 - (B). The owners and operators of the source and each TR NO_x Ozone Season unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and

each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBBB and the Clean Air Act.

(2) TR NO_x Ozone Season assurance provisions.

- (i). If total NO_x emissions during a control period in a given year from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO_x Ozone Season allowances available for deduction for such control period under 40 CFR 97.525(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.525(b), of multiplying—
 - (A). The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and
 - (B). The amount by which total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state for such control period exceed the state assurance level.
- (ii). The owners and operators shall hold the TR NO_x Ozone Season allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
- (iii). Total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state during a control period in a given year exceed the state assurance level if such total NO_x emissions exceed the sum, for such control period, of the State NO_x Ozone Season trading budget under 40 CFR 97.510(a) and the state's variability limit under 40 CFR 97.510(b).
- (iv). It shall not be a violation of 40 CFR part 97, subpart BBBBBB or of the Clean Air Act if total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total NO_x emissions from the TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state during a control period exceeds the common designated representative's assurance level.
- (v). To the extent the owners and operators fail to hold TR NO_x Ozone Season allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
 - (A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

- (B). Each TR NO_x Ozone Season allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBB and the Clean Air Act.
- (3) Compliance periods.
- (i). A TR NO_x Ozone Season unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of May 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.
 - (ii). A TR NO_x Ozone Season unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.
- (4) Vintage of allowances held for compliance.
- (i). A TR NO_x Ozone Season allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR NO_x Ozone Season allowance that was allocated for such control period or a control period in a prior year.
 - (ii). A TR NO_x Ozone Season allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NO_x Ozone Season allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
- (5) Allowance Management System requirements. Each TR NO_x Ozone Season allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart BBBBB.
- (6) Limited authorization. A TR NO_x Ozone Season allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:
- (i). Such authorization shall only be used in accordance with the TR NO_x Ozone Season Trading Program; and
 - (ii). Notwithstanding any other provision of 40 CFR part 97, subpart BBBBB, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
- (7) Property right. A TR NO_x Ozone Season allowance does not constitute a property right.
- (d) Title V permit revision requirements.**
- (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_x Ozone Season allowances in accordance with 40 CFR part 97, subpart BBBBB.
 - (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.530 through 97.535, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the

Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.506(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

- (1) Unless otherwise provided, the owners and operators of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
 - (i). The certificate of representation under 40 CFR 97.516 for the designated representative for the source and each TR NO_x Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.516 changing the designated representative.
 - (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart 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.

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

(a) Designated representative requirements.

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

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

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

(c) SO₂ emissions requirements.

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

- (i). If total SO₂ emissions during a control period in a given year from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO₂ emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR SO₂ Group 1 allowances available for deduction for such control period under 40 CFR 97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.625(b), of multiplying—
 - (A). The quotient of the amount by which the common designated representative's share of such SO₂ emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such SO₂ emissions exceeds the respective common designated representative's assurance level; and
 - (B). The amount by which total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state for such control period exceed the state assurance level.
- (ii). The owners and operators shall hold the TR SO₂ Group 1 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
- (iii). Total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state during a control period in a given year exceed the state assurance level if such total SO₂ emissions exceed the sum, for such control period, of the state SO₂ Group 1 trading budget under 40 CFR 97.610(a) and the state's variability limit under 40 CFR 97.610(b).
- (iv). It shall not be a violation of 40 CFR part 97, subpart CCCCC or of the Clean Air Act if total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total SO₂ emissions from the TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state during a control period exceeds the common designated representative's assurance level.
- (v). To the extent the owners and operators fail to hold TR SO₂ Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
 - (A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
 - (B). Each TR SO₂ Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart CCCCC and the Clean Air Act.

- (3) Compliance periods.
- (i). A TR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.
 - (ii). A TR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.
- (4) Vintage of allowances held for compliance.
- (i). A TR SO₂ Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR SO₂ Group 1 allowance that was allocated for such control period or a control period in a prior year.
 - (ii). A TR SO₂ Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR SO₂ Group 1 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
- (5) Allowance Management System requirements. Each TR SO₂ Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart CCCCC.
- (6) Limited authorization. A TR SO₂ Group 1 allowance is a limited authorization to emit one ton of SO₂ during the control period in one year. Such authorization is limited in its use and duration as follows:
- (i). Such authorization shall only be used in accordance with the TR SO₂ Group 1 Trading Program; and
 - (ii). Notwithstanding any other provision of 40 CFR part 97, subpart CCCCC, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
- (7) Property right. A TR SO₂ Group 1 allowance does not constitute a property right.
- (d) Title V permit revision requirements.**
- (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR SO₂ Group 1 allowances in accordance with 40 CFR part 97, subpart CCCCC.
 - (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.630 through 97.635, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR part 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.606(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

- (1) Unless otherwise provided, the owners and operators of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
 - (i). The certificate of representation under 40 CFR 97.616 for the designated representative for the source and each TR SO₂ Group 1 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.616 changing the designated representative.
 - (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart CCCCC.
 - (iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR SO₂ Group 1 Trading Program.
- (2) The designated representative of a TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall make all submissions required under the TR SO₂ Group 1 Trading Program, except as provided in 40 CFR 97.618. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.

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

(g) Effect on other authorities.

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

Appendix D: 2004 EPA Letter



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII
901 NORTH 5TH STREET
KANSAS CITY, KANSAS 66101

JUN 08 2004

Daniel Bell
CEM Compliance Specialist
Alliant Energy
200 First Street SE
P.O. Box 351
Cedar Rapids, IA 52406-0351

Dear Mr. Bell:

On April 23, 2004, EPA Region 7 issued an alternative monitoring and test waiver approval for Alliant Energy's Emery Generating Station (EGS). This approval, in part, allowed the substitution of data collected by a NO_x CEMS for the initial Reference Method 20 test while operating the turbines in simple cycle mode. On April 28, 2004, as a follow-up to the EPA approval, Alliant clarified that under the acid rain rules they are not required to install a NO_x CEMS on the simple cycle bypass stacks and therefore data from the NO_x CEMS would not be available to substitute for the initial or ongoing NSPS Subpart GG compliance demonstration. Alliant further noted that the turbines, while operating in simple cycle mode, are restricted by the state-issued PSD permit to less than 200 and 50 hours in any 12 month rolling period while combusting natural gas and fuel oil, respectively. Instead of verifying initial compliance with the NSPS Subpart GG standard using Reference Method 20 on the simple cycle bypass stack, Alliant seeks to use the data collected with instrumental reference methods 3A and 7E to determine the NO_x "maximum emission rate" (NO_x-MER), at full load, under the acid rain program.

After evaluating the procedures required under 40 CFR Part 75, Appendix A §2.1.2.1(d) for determining the maximum potential concentration (NO_x-MPC) from turbines, which is then used to calculate the NO_x-MER, EPA agrees that the data collected in this instance can serve as an acceptable surrogate for NSPS Subpart GG compliance, pursuant to 40 CFR §60.8(b)(4). We note, however, that the Part 75 procedures outlined below require brief testing at each of three loads to characterize emissions over the entire range of the turbine operation.

Part 75, App. A §2.1.2.1(d) For units with add-on NO_x controls (whether or not the unit is equipped with low-NO_x burner technology), or for units equipped with dry low-NO_x (DLN) technology, NO_x emission testing may only be used to determine the MPC if testing can be performed either upstream of the add-on controls or during a time or season when the add-on controls are not in operation or when the DLN controls are not in the premixed (low-NO_x) mode. If NO_x emission testing is performed, use the following guidelines. Use Method 7E from appendix A to part 60 of this chapter to measure total NO_x concentration. (Note: Method 20 from appendix A to part 60 may be used for gas turbines, instead of Method 7E.) Operate the unit, or group of units sharing a common stack, at the minimum safe and stable load, the normal load, and the maximum load. If the normal load and maximum load are identical, an intermediate level need not be tested. Operate at the highest excess O₂ level expected under normal operating conditions. Make at least three runs of 20 minutes (minimum) duration with three traverse points per-run at each operating condition. Select the highest point NO_x concentration from all test runs as the MPC for NO_x.



As long as Alliant performs the testing consistent with 40 CFR Part 75, Appendix A §2.1.2.1(d) when developing its NO_x-MPC, EPA will allow the use of this data to demonstrate initial compliance with the NSPS Subpart GG requirements while operating in simple cycle mode. The approval of this abbreviated compliance demonstration reflects a balance of collecting sufficient information to demonstrate compliance over the range of the turbine operation while acknowledging that full Reference Method 20 testing could consume the bulk of hours the turbines are allowed to operate in simple cycle mode.

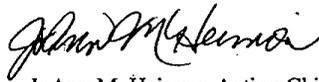
Appendix A has been revised to reflect this approved alternative.

General Disclaimer

The test waiver and alternative monitoring approval described herein does not change or otherwise supercede any conditions prescribed in any permit issued by the Iowa Department of Natural Resources (IDNR), if applicable. If the flexibility provided for by this approval conflicts with the permit, you should work with the permitting agency to either modify the permit accordingly or seek assurance that this agreement is an acceptable alternative to the testing and monitoring conditions found in the permit.

If you have any questions concerning the details of this approval, please contact Jon Knodel at (913) 551-7622.

Sincerely,



JoAnn M. Heiman, Acting Chief
Air Permitting and Compliance Branch

cc: Gary Smith
Iowa Department of Natural Resources

Nitrogen

Pursuant to 40 CFR §60.13(i), EGS shall sample the nitrogen content of the fuel as follows:

- 1) Pursuant to the letter from Alan Arnold to JoAnn Heiman, dated March 4, 2004, EGS agrees to accept a value of zero ("0") for the fuel-bound nitrogen credit. As a result, no nitrogen sampling and analysis of the fuel is required.
- 2) If EGS seeks credit for fuel-bound nitrogen, then they shall sample and analyze the nitrogen concentration in the fuel each day. This approval in no way limits EGS's opportunity to pursue EPA approval of a custom fuel schedule for a reduced nitrogen sampling and analysis frequency under 40 CFR §60.334(b)(2).
- 3) For your protection and as a courtesy to the agency responsible for reviewing the excess emission reports, we suggest that EGS add a statement to each report reaffirming that no nitrogen sampling was performed pursuant to the agreement described herein.

Initial Demonstration of Compliance with NSPS Subpart GG

Pursuant to 40 CFR §60.8(b)(4) and subject to the following conditions, Region 7 hereby waives the Reference Method 20 test required by NSPS Subpart GG. In its place, Alliant Energy, EGS may substitute the data collected pursuant to 40 CFR Part 75, Appendix A §2.1.2.1(d) for the purpose of demonstrating initial compliance with NSPS Subparts GG.

- 1) Reference method data collected to determine the Part 75 NO_x-MEC may be used to demonstrate initial compliance with the Subpart GG NO_x emission limitation. These data shall be ISO-corrected for the purpose of demonstrating initial compliance.
- 2) The PSD permit restricts Alliant Energy, EGS to only pipeline grade natural gas and limited use of very low sulfur distillate fuel oil (S,0.05%w). As a result, the SO₂ measurement requirements under 40 CFR Part 60, Appendix A, Reference Method 20, Section 6.3 are waived pursuant to 40 CFR §60.8(b)(4).
- 3) Initial compliance with NSPS Subpart GG shall be demonstrated for each turbine in accordance with the deadlines described in 40 CFR §60.8(a). Each turbine and associated fuel type will have its own demonstration period (e.g. CT1-gas, CT1-oil), each period commencing when the primary or backup fuel is first fired.

Appendix A

Approval of Alternative Monitoring and Test Waiver for Alliant Energy, Interstate Power and Light Company's Emery Generating Station (EGS) While Operating in Simple Cycle Mode

Custom Fuel Monitoring Schedule

Sulfur

Pursuant to 40 CFR 60.13(i), EPA Region 7 approves the sampling and analysis procedures found in 40 CFR Part 75, Appendix D, Sections 2.3.1.4 and 2.3.3.1 as an alternative to the fuel monitoring and sulfur fuel sampling and analysis requirements of NSPS Subpart GG, subject to the following conditions:

- 1) Alliant Energy, EGS shall submit an excess emissions report to the Iowa Department of Natural Resources consistent with the format and schedule described in 40 CFR §60.7(d).

Consistent with prior custom fuel monitoring schedule approvals found on EPA's Applicability Determinations Index [see <http://cfpub.epa.gov/adi/>], Alliant Energy, EGS may also use the length of stain tube method (GPA Standard 2377-86) for the purpose of demonstrating that the sulfur content of the fuel is below the NSPS Subpart GG limit of 0.8%.

Sulfur Monitoring... while operating the simple cycle turbine on fuel oil

Pursuant to 40 CFR §60.13(i), EPA Region 7 approves any of the sampling and analysis procedures found in 40 CFR Part 75, Appendix D, Section 2.2 as an alternative to the fuel oil monitoring and sulfur fuel sampling and analysis requirements of NSPS Subpart GG.

Sulfur... Excess Emission Reporting

EGS shall submit an excess emissions report to the Iowa Department of Natural Resources consistent with the format and schedule described in 40 CFR §60.7(d). Since sulfur emissions from both the pipeline grade natural gas and distillate fuel oil are expected to be at least an order of magnitude less than the NSPS Subpart GG fuel sulfur standards, EGS may submit the streamlined excess emission report provided for in §60.7(c)(4) and §60.7(d)(1).

Ongoing Demonstration of Compliance with NSPS Subpart GG

The Part 75 NO_x-MPC, adjusted to ISO-conditions, may be used to demonstrate ongoing compliance with the NSPS Subpart GG emission limitation, subject to the following conditions:

- 1) Alliant shall make a periodic evaluation, at a minimum annually, of the NO_x-MPC and shall make any necessary adjustments. Adjustments may be required, for example, as a result of changes in the fuel supply or changes in the manner of operation of the unit. In implementing these provisions, note that NO_x data recorded during short-term, non-representative operating conditions (e.g., a trial burn of a different type of fuel) shall be excluded from consideration.
- 2) Alliant shall keep the results of the most recent NO_x-MPC evaluation onsite, in a format suitable for inspection. Any necessary adjustments shall be made no later than 45 days after the end of the quarter in which the need to adjust is identified.
- 3) Since no continuous NO_x monitoring device will be installed on the simple cycle bypass stacks, excess emission and monitoring system performance reporting under 40 CFR §60.7(d) is not required. If NO_x CEMS are installed, or are required to be installed, on the simple cycle bypass stacks at some future date, then the requirements of 40 CFR §60.7(d) will apply.

[End of Conditions]