

**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-011

Expiration Date: October 15, 2012

Permit Renewal Application Deadline: April 15, 2012

EIQ Number: 92-6915

Facility File Number: 17-02-016

Responsible Official

Name: John Boston

Title: Plant Manager-Emery Station

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

Phone #: (641)-355-7539

Permit Contact Person for the Facility

Name: John Boston

Title: Plant Manager-Emery Station

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

Phone #: (641)-355-7539

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

Douglas A. Campbell, 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
gr./100 cf.....	grains per one hundred cubic feet
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
NSPS.....	new source performance standard
ppmv	parts per million by volume
lb./hr	pounds per hour
lb./MMBtu	pounds per million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC.....	Standard Industrial Classification
TPY.....	tons per year
USEPA.....	United States Environmental Protection Agency

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-011

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

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
AST18	Sodium Hypochlorite Tank (1,550 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	8 Natural Gas Spaceheaters (Main Bldg, ST Mezzanine) < 10MMBtu
SH51	43 Natural Gas Spaceheaters (Main Bldg, Gnd. Level) < 10MMBtu
SH54	3 Natural Gas Spaceheaters (BS Gen Bldg,) < 10MMBtu

II. Plant-Wide Conditions

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

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: October 16, 2007
Ending on: October 15, 2012

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 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"

Clean Air Interstate Rule (CAIR): This facility is subject to 40 CFR §96.121 and must comply with the requirements of the Clean Air Interstate Rule (CAIR). As such, the CAIR designated representative of any CAIR NO_x source required to have a title V operating permit shall submit to the permitting authority a complete CAIR permit application under 40 CFR §96.122 for the source covering each CAIR NO_x unit at the source at least 18 months (or such lesser time provided by the permitting authority) before the later of January 1, 2009 or the date on which the CAIR NO_x unit commences operation.

Authority for Requirement: 40 CFR Part 96

Clean Air Mercury Rule (CAMR): This facility is not subject to requirements of the Clean Air Mercury Rule (CAMR) because the units only combust natural gas and fuel oil.

Authority for Requirement: 40 CFR 60 Subpart HHHH

Compliance Plan

The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.

Unless otherwise noted in Section III of this permit, Interstate Power & Light Company-Emery Generating Station is in compliance with all applicable requirements and shall continue to

comply with all such requirements. For those applicable requirements which become effective during the permit term, Interstate Power & Light Company-Emery Generating Station shall comply with such requirements in a timely manner.

Authority for Requirement: 567 IAC 22.108(15)

40 CFR 60 Subpart Kb Requirements

This facility is subject to Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification commenced After July 23, 1984, 40 CFR 60 subpart Kb and the affected unit is EU13 (Fuel Oil Storage Tank). Applicable subpart Kb requirements are incorporated into the Emission-Point Specific Conditions Section.

Authority for Requirement: 40 CFR 60 subpart Kb
567 23.1(2)"ddd"

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 63 Subpart Dc
567 IAC 23.1(2)"lll"

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 63 Subpart Da
567 IAC 23.1(2)"z"

III. Emission Point-Specific Conditions

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

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

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Combustion Turbines-Combined Cycle
 Emissions Control Equipment ID Number: See Table: Combustion Turbines-Combined Cycle
 Emissions Control Equipment Description: See Table: Combustion Turbines-Combined Cycle
 Continuous Emissions Monitors ID Numbers: See Table: Combustion Turbines-Combined Cycle

Table: Combustion Turbines-Combined Cycle

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Emissions Control Equipment ID No.	Emissions Control Equipment Description	Continuous Emissions Monitors ID No.	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			2046 (Turbine) and 405.2 (Duct Burner)
			CE4	Oxidation Catalyst			
CC1	EU1	Combustion Turbine-Combined Cycle Combustion Turbine and Heat Recovery Steam Generator with Duct Burner	CE2	Water Injection	ME1 ME2	Distillate Oil	2,688.2
			CE3	Selective Catalytic Reduction			2283 (Turbine) and 405.2 (Duct Burner)
			CE4	Oxidation Catalyst			

Table: Combustion Turbines-Combined Cycle (Cont.)

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Emissions Control Equipment ID No.	Emissions Control Equipment Description	Continuous Emissions Monitors ID No.	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			2046 (Turbine) and 405.2 (Duct Burner)
			CE8	Oxidation Catalyst			
CC2	EU2	Combustion Turbine-Combined Cycle Combustion Turbine and Heat Recovery Steam Generator with Duct Burner	CE6	Water Injection	ME3 ME4	Distillate Oil	2,688.2
			CE7	Selective Catalytic Reduction			2283 (Turbine) and 405.2 (Duct Burner)
			CE8	Oxidation Catalyst			

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% (Natural Gas-Fired) and 10% (Distillate Oil-Fired)

Authority for Requirement: Iowa DNR Construction Permits 02-A-634-P2 (CC1) and 02-A-636-P2 (CC2)
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

BACT Emission Limit(s): 0.0072⁽¹⁾ lb/MMBtu and 77.1 tons/yr (Natural Gas-Fired) and 0.0219⁽²⁾ lb/MMBtu and 5.38 tons/yr (Distillate Oil-Fired)

Authority for Requirement: Iowa DNR Construction Permits 02-A-634-P2 (CC1) and 02-A-636-P2 (CC2)

Pollutant: PM₁₀

BACT Emission Limit(s): 0.0072⁽¹⁾ lb/MMBtu and 77.1 tons/yr (Natural Gas-Fired) and 0.0219⁽²⁾ lb/MMBtu and 5.38 tons/yr (Distillate Oil-Fired)

Authority for Requirement: Iowa DNR Construction Permits 02-A-634-P2 (CC1) and 02-A-636-P2 (CC2)

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

⁽²⁾ Heat input used shall be the higher heating value of the distillate oil used.

Pollutant: Sulfur Oxides (SO_x)

BACT Emission Limit(s): 0.0022⁽¹⁾ lb/MMBtu, 23.7 tons/yr and 0.8 gr/100 scf (Natural Gas-Fired) and 0.0463⁽²⁾ lb/MMBtu, 11.34 tons/yr and 0.05% by wt.(Distillate Oil-Fired)

Authority for Requirement: Iowa DNR Construction Permits 02-A-634-P2 (CC1) and 02-A-636-P2 (CC2)

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 and 122.6 tons/yr (Natural Gas-Fired) and 0.1332⁽²⁾⁽³⁾ lb/MMBtu and 32.65 tons/yr (Distillate Oil-Fired)

Authority for Requirement: Iowa DNR Construction Permits 02-A-634-P2 (CC1) and 02-A-636-P2 (CC2)

Pollutant: Volatile Organic Compounds (VOC)

BACT Emission Limit(s): 0.0028⁽¹⁾ lb/MMBtu and 29.8 tons/yr (Natural Gas-Fired) and 0.0040⁽²⁾ lb/MMBtu and 0.97 tons/yr (Distillate Oil-Fired)

Authority for Requirement: Iowa DNR Construction Permits 02-A-634-P2 (CC1) and 02-A-636-P2 (CC2)

Pollutant: Carbon Monoxide (CO)

BACT Emission Limit(s): 0.0116⁽¹⁾⁽³⁾ lb/MMBtu and 124.4 tons/yr (Natural Gas-Fired) and 0.0175⁽²⁾⁽³⁾ lb/MMBtu and 4.28 tons/yr (Distillate Oil-Fired)

Authority for Requirement: Iowa DNR Construction Permits 02-A-634-P2 (CC1) and 02-A-636-P2 (CC2)

Pollutant: Sulfuric Acid (H₂SO₄)

BACT Emission Limit(s): 0.0003⁽¹⁾ lb/MMBtu and 3.07 tons/yr (Natural Gas-Fired) and 0.0057⁽²⁾ lb/MMBtu and 1.39 tons/yr (Distillate Oil-Fired)

Authority for Requirement: Iowa DNR Construction Permits 02-A-634-P2 (CC1) and 02-A-636-P2 (CC2)

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

⁽²⁾ Heat input used shall be the higher heating value of the distillate oil used.

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

All tons/year limits are twelve-month rolling totals.

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.

Hours of operation:

- A. Operation of the turbines in combined cycle mode using No. 2 distillate oil shall not exceed 11 hours each per day and 200 hours each per rolling twelve (12) month period.

Process throughput:

- A. Operation of the turbines in combined cycle mode shall be limited to either natural gas or No. 2 distillate oil.
- B. The maximum sulfur content of the natural gas shall not exceed 0.8 gr/100 scf.
- C. The maximum sulfur content of the distillate oil shall not exceed 0.05% by weight.

Work practice standards:

- A. During combined cycle operation the turbine shall operate with the Dry-low NO_x combustors, SCR and Oxidation Catalyst while combusting natural gas.
- B. During combined cycle operation the turbine shall operate with water injection, SCR and Oxidation Catalyst while combusting distillate oil.
- C. Periods of startup, shutdown and cleaning of control equipment shall adhere to requirements in General Conditions G14.

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

- A. The date, time of startup for the turbines, time of shutdown for the turbines, and total hours of operation for that date for the turbines when operating in combined cycle on No. 2 distillate oil.
- B. Determine the cumulative number of hours that each turbine operates in combined cycle mode using No. 2 distillate oil on a rolling 12-month basis for each month.
- C. A fuel analysis shall be kept on file for each fuel 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)

⁽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 (natural gas) 499,500 (distillate oil)

Exhaust Temperature (°F): 160 (natural gas) 260 (distillate oil)

Discharge Style: Unobstructed vertical

Authority for Requirement: Iowa DNR Construction Permits 02-A-634-P2 (CC1) and
02-A-636-P2 (CC2)

Note: Turbine exhaust temperature & flowrate will vary depending on the type of fuel, the operating load, and ambient temperature.

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Method 9 opacity testing shall be conducted monthly and Method 22 tests for "no visible emissions" shall be conducted daily. 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 (CC1) and
02-A-636-P2 (CC2)

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: Iowa DNR Construction Permits 02-A-634-P2 (CC1) and
02-A-636-P2 (CC2)

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

Associated Emission Unit ID Numbers: See Table: Combustion Turbines-Simple Cycle
 Emissions Control Equipment ID Number: See Table: Combustion Turbines-Simple Cycle
 Emissions Control Equipment Description: See Table: Combustion Turbines-Simple Cycle

Table: Combustion Turbines-Simple Cycle

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Emissions Control Equipment ID No.	Emissions Control Equipment Description	Raw Material	Rated Capacity (MMBtu/hr)
SC1	EU-1SC	Combustion Turbine-Simple Cycle	CE1	Dry-Low NOx Combustors	Natural Gas	2,046
SC1	EU-1SC	Combustion Turbine-Simple Cycle	CE2	Water Injection	Distillate Oil	2,283
SC2	EU-2SC	Combustion Turbine-Simple Cycle	CE5	Dry-Low NOx Combustors	Natural Gas	2,046
SC2	EU-2SC	Combustion Turbine-Simple Cycle	CE6	Water Injection	Distillate Oil	2,283

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% (Natural Gas-Fired) and 10% (Distillate Oil-Fired)

Authority for Requirement: Iowa DNR Construction Permits 02-A-633-P3 (SC1) and 02-A-635-P3 (SC2)
 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

BACT Emission Limit(s): 0.0066⁽¹⁾ lb/MMBtu and 2.7 tons/yr (Natural Gas-Fired) and 0.0194⁽²⁾ lb/MMBtu (SC1), 0.0171⁽²⁾ lb/MMBtu (SC2) and 0.85 tons/yr (Distillate Oil-Fired)

Authority for Requirement: Iowa DNR Construction Permits 02-A-633-P3 (SC1) and 02-A-635-P3 (SC2)

Pollutant: PM₁₀

BACT Emission Limit(s): 0.0066⁽¹⁾ lb/MMBtu and 2.7 tons/yr (Natural Gas-Fired) and 0.0194⁽²⁾ lb/MMBtu (SC1), 0.0171⁽²⁾ lb/MMBtu (SC2) and 0.85 tons/yr (Distillate Oil-Fired)

Authority for Requirement: Iowa DNR Construction Permits 02-A-633-P3 (SC1) and 02-A-635-P3 (SC2)

Pollutant: Sulfur Oxides (SO_x)

BACT Emission Limit(s): 0.0022⁽¹⁾ lb/MMBtu , 0.9 tons/yr and 0.8 gr/100 scf (Natural Gas-Fired) and 0.0492⁽²⁾ lb/MMBtu, 2.81 tons/yr and 0.05% by wt. (Distillate Oil-Fired)

Authority for Requirement: Iowa DNR Construction Permits 02-A-633-P3 (SC1) and 02-A-635-P3 (SC2)

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 (Natural Gas-Fired) and 0.1502⁽²⁾⁽³⁾ lb/MMBtu and 8.58 tons/yr (Distillate Oil-Fired)

Authority for Requirement: Iowa DNR Construction Permits 02-A-633-P3 (SC1) and 02-A-635-P3 (SC2)

Pollutant: Volatile Organic Compounds (VOC)

BACT Emission Limit(s): 0.0016⁽¹⁾ lb/MMBtu and 0.64 tons/yr (Natural Gas-Fired) and 0.0035⁽²⁾ lb/MMBtu and 0.2 tons/yr (Distillate Oil-Fired)

Authority for Requirement: Iowa DNR Construction Permits 02-A-633-P3 (SC1) and 02-A-635-P3 (SC2)

Pollutant: Carbon Monoxide (CO)

BACT Emission Limit(s): 0.0161⁽¹⁾⁽³⁾ lb/MMBtu and 6.6 tons/yr (Natural Gas-Fired) and 0.0315⁽²⁾⁽³⁾ lb/MMBtu and 1.8 tons/yr (Distillate Oil-Fired)

Authority for Requirement: Iowa DNR Construction Permits 02-A-633-P3 (SC1) and 02-A-635-P3 (SC2)

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

⁽²⁾ Heat input used shall be the higher heating value of the distillate oil used.

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

All tons/year limits are twelve-month rolling totals.

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.

Hours of operation:

- A. Operation of the turbines 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 turbine to meet the Continuous Emission Monitoring requirements of 40 CFR Part 75 & Relative Accuracy Test Audits (RATA) are allowed.
- B. Operation of the turbines in simple cycle mode using No. 2 distillate oil shall be limited to 12 hours per day 50 hours per twelve (12) month rolling period. Usage shall be limited to energy accreditation activities or due to outages of the gas pipeline only. Operation of the turbine to meet the Continuous Emission Monitoring requirements of 40 CFR Part 75 & Relative Accuracy Test Audits (RATA) are allowed.

Process throughput:

- A. The maximum sulfur content of the natural gas shall not exceed 0.8 gr/100 scf.
- B. The maximum sulfur content of the distillate oil shall not exceed 0.05% by weight.

Work practice standards:

- A. During simple cycle operation the turbine shall operate with the Dry-Low NO_x combustors while combusting natural gas.
- B. The turbine shall operate with water injection while combusting distillate oil.
- C. Periods of startup, shutdown and cleaning of control equipment shall adhere to requirements in General Conditions G14.

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

- A. The date, time of startup for the turbines, time of shutdown for the turbines, and total hours of operation for that date for the turbines when operating in simple cycle mode on No. 2 distillate oil.

- B. 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.
- C. A record of the circumstances pertaining to the forced outage of the HRSG or the steam turbine.
- D. Determine the cumulative number of hours that each turbine operates in simple cycle mode using No. 2 distillate oil on a rolling 12-month basis for each month.
- E. A record of the circumstances pertaining to the energy accreditation activities or outage of the gas pipeline.
- F. A fuel analysis shall be kept on file for each fuel 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-633-P3 (SC1) and 02-A-635-P3 (SC2)

⁽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 (natural gas) 499,500 (distillate oil)

Exhaust Temperature (°F): 1,025 (natural gas) 1,020 (distillate oil)

Discharge Style: Unobstructed vertical

Authority for Requirement: Iowa DNR Construction Permits 02-A-633-P3 (SC1) and 02-A-635-P3 (SC2)

Note: Turbine exhaust temperature & flowrate will vary depending on the type of fuel, the operating load, and ambient temperature.

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Method 9 opacity testing shall be conducted monthly and Method 22 tests for "no visible emissions" shall be conducted daily. 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-633-P3 (SC1) and
02-A-635-P3 (SC2)

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: Iowa DNR Construction Permits 02-A-633-P3 (SC1) and
02-A-635-P3 (SC2)

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

Associated Emission Unit ID Numbers: See Table: Gas Heaters

Emissions Control Equipment ID Number: See Table: Gas Heaters

Emissions Control Equipment Description: See Table: Gas Heaters

Table: Gas Heaters

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Emissions Control Equipment ID No.	Emissions Control Equipment Description	Raw Material	Rated Capacity (MMBtu/Hr.)
GH1	EU3	Gas Heater A	CE9	Dry-Low NOx Burner	Natural Gas	16.4
	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: Iowa DNR Construction Permit 02-A-637-P2
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

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

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

Pollutant: PM₁₀

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

Authority for Requirement: Iowa 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: Iowa 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: Iowa 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.

Pollutant: Volatile Organic Compounds (VOC)

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

Authority for Requirement: Iowa 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: Iowa 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.

Process throughput:

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

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

- A. 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(b)) shall be sufficient to satisfy this requirement. The analyses shall be performed at least annually.⁽¹⁾
- B. 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: Iowa 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: Iowa DNR Construction Permits 02-A-637-P2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Opacity shall be observed on a weekly basis to ensure no visible emissions during the material handling operation of the unit. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

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

Associated Emission Unit ID Numbers: See Table: Black Start Generators

Table: Black Start Generators

Emission Point Number	Associated Emission Unit Number	Emission Unit 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 these emission points shall not exceed the levels specified below.

BACT Emission Limits

Pollutant: Opacity

BACT Emission Limit(s): 20% ⁽¹⁾

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

Pollutant: Particulate Matter (PM)

BACT Emission Limit(s): 0.25 tons/yr⁽²⁾ and 0.1 lb/MMBtu⁽³⁾

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

⁽¹⁾ Standard is a six minute average.

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

⁽³⁾ Standard is expressed as the average of three runs.

Pollutant: PM₁₀

BACT Emission Limit(s): 0.25 tons/yr⁽¹⁾ and 0.1 lb/MMBtu⁽²⁾

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

Pollutant: Sulfur Dioxide (SO₂)

BACT Emission Limit(s): 0.1 tons/yr⁽¹⁾ 0.051 lb/MMBtu⁽²⁾

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

Pollutant: Nitrogen Oxides (NO_x)

BACT Emission Limit(s): 3.90 tons/yr⁽¹⁾ 1.9 lb/MMBtu⁽²⁾

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

Pollutant: Volatile Organic Compounds (VOC)

BACT Emission Limit(s): 0.18 tons/yr⁽¹⁾ and 0.09 lb/MMBtu⁽²⁾

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

Pollutant: Carbon Monoxide (CO)

BACT Emission Limit(s): 1.74⁽¹⁾ tons/yr and 0.85 lb/MMBtu⁽²⁾

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

Other Emission Limits

Pollutant: PM₁₀

Emission Limit(s): 2.05 lb/hr⁽²⁾

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

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 1.04 lb/hr⁽²⁾ and 2.5 lb/MMBtu

Authority for Requirement: Iowa 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⁽²⁾

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

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

⁽²⁾ Standard is expressed as the average of three runs.

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 17.43 lb/hr⁽¹⁾

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

⁽¹⁾ Standard is expressed as the average of three runs.

Operational Limits & Requirements

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

Process throughput:

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

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

- A. 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.
- B. Determine the annual hours of operation for each emission unit on a rolling twelve-month basis for each month.

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

Emission Point Characteristics

These emission points 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: Iowa DNR Construction Permits specified in Table: Black Start
Generators

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate

may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

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: See Table: Dew Point Heater

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 these emission points shall not exceed the levels specified below.

Pollutant: Opacity

BACT Emission Limit(s): 0%

Authority for Requirement: Iowa DNR Construction Permits specified in Table Dew Point Heater
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

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

Authority for Requirement: Iowa DNR Construction Permits specified in Table Dew Point Heater

Pollutant: PM₁₀

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

Authority for Requirement: Iowa DNR Construction Permits specified in Table Dew Point Heater

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: Iowa DNR Construction Permits specified in Table Dew Point Heater

- (1) Heat input used should be the higher heating value of the natural gas used.
(2) Standard is a twelve-month rolling total.

Pollutant: Nitrogen Oxides (NO_x)

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

Authority for Requirement: Iowa DNR Construction Permits specified in Table Dew Point Heater

Pollutant: Volatile Organic Compounds (VOC)

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

Authority for Requirement: Iowa DNR Construction Permits specified in Table Dew Point Heater

Pollutant: Carbon Monoxide (CO)

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

Authority for Requirement: Iowa DNR Construction Permits specified in Table Dew Point Heater

- (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.

Process throughput:

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

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

- A. 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(b)) shall be sufficient to satisfy this requirement. The analyses shall be performed at least annually.⁽¹⁾
- B. Record the amount of natural gas used for the Dew Point Gas Heaters per 12-month rolling period.

Authority for Requirement: Iowa DNR Construction Permits specified in Table Dew Point Heaters

⁽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: Iowa DNR Construction Permits specified in Table Dew Point Heaters

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

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

Pollutant: Particulate Matter (PM)

BACT Emission Limit(s): 0.0075⁽¹⁾ lb/MMBtu and 2.23⁽²⁾ tons/yr

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

Pollutant: PM₁₀

BACT Emission Limit(s): 0.0075⁽¹⁾ lb/MMBtu and 2.23⁽²⁾ tons/yr

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

- (1) Heat input used should 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.

Hours of operation:

- A. The Auxiliary Boiler shall operate no more than 6,000 hours per twelve-month rolling period.

Process throughput:

- B. The Auxiliary Boiler shall be fired with natural gas only.
- C. The maximum sulfur content of the natural gas shall not exceed 0.8 gr/100 scf.

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

- A. 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⁾
- B. A record of the number of hours the Auxiliary Boiler is operated per twelve-month rolling period.

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

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Opacity shall be observed on a weekly basis to ensure no visible emissions during the material handling operation of the unit. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

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

Pollutant: Particulate Matter (PM)

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

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

Pollutant: PM₁₀

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

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

⁽¹⁾ Standard is a 12-month rolling total

Operational Limits & Requirements

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

Process throughput:

- A. 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.

- B. The cooling tower shall be operated and maintained per the manufacturer's specifications and instructions.

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

- A. 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.
- B. Maintain records of all maintenance and repair to the cooling tower.

Authority for Requirement: Iowa 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 flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Opacity shall be observed on a weekly basis to ensure no visible emissions during the material handling operation of the unit. When condensed water vapor is present as it emerges from the emission outlet, opacity observations shall be made beyond the point in the plume at which condensed water vapor is no longer visible. The observer shall record the approximate distance from the emission outlet to the point in the plume at which the observations are made. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation

attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID 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: Iowa DNR Construction Permit 02-A-643-P1
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

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

Authority for Requirement: Iowa DNR Construction Permit 02-A-6431-P1

Pollutant: PM₁₀

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

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

Pollutant: Sulfur Oxides (SO_x)

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

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

Pollutant: Nitrogen Dioxide (NO₂)

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

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

Pollutant: Volatile Organic Compounds (VOC)

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

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

Pollutant: Carbon Monoxide (CO)

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

Authority for Requirement: Iowa 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.

Hours of operation:

- A. The fire pump shall not operate more than 104 hours per twelve-month rolling total period.

Process throughput:

- A. This unit shall be fired with No. 2 distillate oil only.
- B. The maximum sulfur content of the No. 2 distillate oil shall not exceed 0.05% by weight.
- C. 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.
- D. The fire pump shall be operated and maintained per the manufacturer's instructions and specifications.

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

- A. 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.
- B. A record of the number of hours the Fire Pump has operated per twelve-month rolling total period.
- C. 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.
- D. Maintain a record of all maintenance and repair to the fire pump.

Authority for Requirement: Iowa DNR Construction Permit 02-A-643-P

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: Iowa DNR Construction Permit 02-A-643-P1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

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: 428,000 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

NSPS Applicability

NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (beginning of 40 CFR §60.110b). 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.

Process throughput:

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

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

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

- A. Records demonstrating the dimensions of the storage vessel and the capacity.

B. 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
40 CFR 60.116(b)

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"*

G2. Permit Expiration

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *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 present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Urbandale, Iowa 50322, 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 EPA Region VII, Attention: Chief of Air Permits, 901 N. 5th St., Kansas City, KS 66101. 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 following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
 - a. Form 1.0 "Facility Identification";
 - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
 - c. Form 5.0 "Title V annual emissions summary/fee"; and
 - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
 - a. Form 1.0 "Facility Identification";
 - b. Form 5.0 "Title V annual emissions summary/fee";
 - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.

8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

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

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

G9. General Maintenance and Repair Duties

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

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

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:

- a. The date, place and time of sampling or measurements
- b. The date the analyses were performed.
- c. The company or entity that performed the analyses.
- d. The analytical techniques or methods used.
- e. The results of such analyses; and
- f. The operating conditions as existing at the time of sampling or measurement.
- g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance

records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

- a. Comply with all terms and conditions of this permit specific to each alternative scenario.
- b. Maintain a log at the permitted facility of the scenario under which it is operating.
- c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

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

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

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:

- a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
- b. Compliance test methods specified in 567 Chapter 25; or
- c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

- a. Any monitoring or testing methods provided in these rules; or
- b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

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

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

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 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. 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. Oral 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 oral 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 oral report may be made 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 oral 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 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 must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *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.
- e. The changes comply with all applicable requirements.
- f. For such a 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 is required to do 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 Permit Modification.
- a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:
 - i. Do not violate any applicable requirements
 - 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 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.
 - 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 a 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, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant 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, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113* 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 22.105(1)"a"(4)*

G19. Duty to Obtain Construction Permits

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *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, training fires and controlled burning of a demolished building. *567 IAC 23.1(3)"a", and 567 IAC 23.2*

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. *567 IAC 23.2 except 23.2(3)"h"; 567 IAC 23.2(3)"h" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

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

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

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
 - b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
 - c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
 - d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.
5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or

termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

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

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

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to June 25, 1993.

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 June 25, 1993, 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)*

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 to determine transferability of the permit. *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 an applicable requirement. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. 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. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. 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
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-6001

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

567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes

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

567 IAC 26.1(1)

G32. Contacts List

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

Chief of Air Permits
EPA Region 7
Air Permits and Compliance Branch
901 N. 5th Street
Kansas City, KS 66101
(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
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-5100

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

Field Office 1

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

Field Office 2

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

Field Office 3

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

Field Office 4

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

Field Office 5

401 SW 7th Street, Suite I
Des Moines, IA 50309
(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 Dept.

Air Pollution Control Division
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000

Appendix A...Acid Rain Phase II Permit



AIR QUALITY BUREAU
7900 Hickman Rd., Suite 1
Urbandale, IA 50322

Draft Phase II Acid Rain Permit

Issued to: Emery Station
Operated by: Interstate Power and Light
ORIS code: 8031
Effective: Five years from the date of issuance

For the Director of the Department of Natural Resources

Douglas A. Campbell, 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

		2007	2008	2009	2010	2011
Unit 11	SO ₂ allowances, under Tables 2, 3, or 4 of 40 CFR part 73.	NA	NA	NA	NA	NA

		2007	2008	2009	2010	2011
Unit 12	SO ₂ allowances, under Tables 2, 3, or 4 of 40 CFR part 73.	NA	NA	NA	NA	NA

* The number of allowances allocated to Phase II affected units by U.S. EPA may change in a 1998 revision to 40 CFR part 73 Tables 2, 3, and 4. 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: Issuance of the Phase II SO₂ permit.

4) Permit Application: Attached.

Plant Name (from Step 1) Emery Station
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Permit Requirements**STEP 3****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 unit 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 unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another affected unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; 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.

STEP 3,
Cont'd.

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

Excess Emissions Requirements

- (1) The designated representative of an affected unit 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 unit 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.

Plant Name (from Step 1) Emery Station
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Step 3,
Cont'd.**Liability, Cont'd.**

(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. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.

(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;

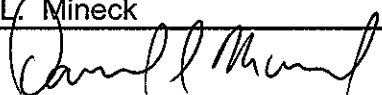
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(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	Daniel L. Mineck	
Signature		Date 12-11-02

Appendix B...Letter from EPA



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

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).

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.

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]