

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

**Name of Permitted Facility: Northern Natural Gas Company-  
Redfield Compressor Station**

**Facility Location: 24282 G Avenue, Redfield, IA 50233**

**Air Quality Operating Permit Number: 00-TV-014R4**

**Expiration Date: November 12, 2028**

**Permit Renewal Application Deadline: May 12, 2028**

**EIQ Number: 92-3879**

**Facility File Number: 25-05-002**

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**Responsible Official**

**Name: Brian Mundt**

**Title: Vice President of Operations**

**Mailing Address: 1111 South 103<sup>rd</sup> Street, Omaha, NE 68124**

**Phone #: (402) 398-7204**

**Permit Contact Person for the Facility**

**Name: Naomi Cavaleri**

**Title: Division Environmental Specialist**

**Mailing Address: 1111 South 103<sup>rd</sup> Street, Omaha, NE 68124**

**Phone #: (402) 398-7847**

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

**For the Director of the Department of Natural Resources**



11/13/2023

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Marnie Stein, Supervisor of Air Operating Permits Section

Date

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## Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
CE .....	control equipment
CEM.....	continuous emission monitor
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP .....	emission point
EU .....	emission unit
gr./dscf .....	grains per dry standard cubic foot
IAC.....	Iowa Administrative Code
DNR .....	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 <sub>10</sub> .....	particulate matter ten microns or less in diameter
SO <sub>2</sub> .....	sulfur dioxide
NO <sub>x</sub> .....	nitrogen oxides
VOC .....	volatile organic compound
CO .....	carbon monoxide
HAP.....	hazardous air pollutant

# I. Facility Description and Equipment List

Facility Name: Northern Natural Gas Company-Redfield Compressor Station  
 Permit Number: 00-TV-014R4

Facility Description: Natural Gas Transmission (SIC 4922)

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## Equipment List

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### A. Natural Gas Compressor Engines

Emission Point Number	Emission Unit Number	Emission Unit Description	Construction Permit Number
1	1	Cooper 2 Cycle Lean Burn Engine (2000 bhp)	07-A-1335
2	2	Cooper 2 Cycle Lean Burn Engine (2000 bhp)	07-A-1336
3	3	Cooper 2 Cycle Lean Burn Engine (1500 bhp)	N/A
4	4	Cooper 2 Cycle Lean Burn Engine (1500 bhp)	N/A
9	9	Waukesha 4 Cycle Rich Burn Engine (1429 bhp)	07-A-1338
10	10	Waukesha 4 Cycle Rich Burn Engine (1429 bhp)	07-A-1339
12	12	Caterpillar 4 Cycle Lean Burn Engine (1818 bhp)	11-A-514-S1

### B. Miscellaneous Sources

Emission Point Number	Emission Unit Number	Emission Unit Description	Construction Permit Number
5	5.01	Treater Incinerator-SO <sub>2</sub>	87-A-123-S8
	5.02	Treater Incinerator-Combustion Gas	87-A-123-S8
8	8	Solar Taurus Natural Gas Fired Turbine	07-A-1337-S4
11	LR-1	Liquid Redox System	08-A-017
214	214	Gasoline Storage Tank (1000 Gallon)	N/A
LAGOONS	LAGOONS	Wastewater Lagoons	N/A
13	13	Flare 1	17-A-075
15	15	Flare 3	19-A-415

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### Insignificant Activities Equipment List

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Emission Unit Number	Insignificant Emission Unit Description
LH	Line Heater (approximately 172 heaters) each <10 MMBtu; Total 87.95 MMBtu/hr
PH	Total Process Heating (Individual Units; each <10 MMBtu)
CH	Total Comfort Heating (Individual Units; each <10 MMBtu)
TK-2	12,000 Gallon Lube Oil Tank
211	270 Gallon Used Oil Tank
210	530 Gallon Used Oil Tank
212	140 Gallon Used Oil Tank
216	500 gallon Diesel Tank
218	300 Gallon Kerosene Tank
219	2,000 Gallon MDEA Tank
220	2,000 Gallon MDEA Tank
221	1,000 Gallon MDEA Tank
261	560 Gallon Used Oil Tank
262	1,000 Gallon Used Oil Tank
263	1,000 Gallon Lube Oil Tank
264	1,000 Gallon Ethylene Glycol Tank
Flare 2*	Plant Yard & Field Flare

\* Emission Unit qualifies for Small Unit Exemption under 567 IAC 22.1(2)"w". Records shall be kept in accordance with 567 IAC 22.1(2)"w"(3).

## II. Plant-Wide Conditions

Facility Name: Northern Natural Gas Company-Redfield Compressor Station

Permit Number: 00-TV-014R4

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

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### Permit Duration

The term of this permit is: 5 Years

Commencing on: November 13, 2023

Ending on: November 12, 2028

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.

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### Emission Limits

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

Opacity (visible emissions): 40% opacity

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

Sulfur Dioxide (SO<sub>2</sub>): 500 parts per million by volume

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

#### Particulate Matter:

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

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

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

Fugitive Dust: Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored or a building, its appurtenances or a construction haul road to

be used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not be limited to, the following procedures.

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

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

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### III. Emission Point-Specific Conditions

Facility Name: Northern Natural Gas Co – Redfield Compressor Station  
Permit Number: 01-TV-014R4

#### Emission Point ID Numbers: 1 and 2

##### Associated Equipment

Associated Emission Unit ID Numbers: 1 and 2

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Emission Units vented through these Emission Points: 1 and 2  
Emission Unit Description: Cooper 2 Cycle Lean Burn Engines  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 2,000 BHP per unit

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##### Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 10%

Authority for Requirement: DNR Construction Permits 07-A-1335 and 07-A-1336  
567 IAC 23.2(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.70 lb/hr

Authority for Requirement: DNR Construction Permits 07-A-1335 and 07-A-1336  
567 IAC 23.2(2)"a"

Pollutant: Particulate Matter (PM10)

Emission Limit(s): 0.70 lb/hr

Authority for Requirement: DNR Construction Permits 07-A-1335 and 07-A-1336

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 500 ppmv

Authority for Requirement: DNR Construction Permits 07-A-1335 and 07-A-1336  
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limits: 45.65 lb/hr

Authority for Requirement: DNR Construction Permits 07-A-1335 and 07-A-1336



### **Operational Limits & Reporting and Recordkeeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

### **NESHAP Subpart ZZZZ Requirements:**

These non-emergency engines are subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(iii) spark ignition non-emergency engines, located at an area source, are existing stationary RICE as they was constructed prior to June 12, 2006.

### **Compliance Date**

Per 63.6595(a)(1) you must comply with the provisions of subpart ZZZZ that are applicable by October 19, 2013.

### **Operation and Maintenance Requirements**

1. Change oil and filter every 4,320 hours of operation or annually, whichever comes first. (See 63.6625(j) for the oil analysis option to extend time frame of requirements.)
2. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

### **Notification, Reporting and Recordkeeping Requirements**

1. An initial notification is not required in pursuant to 40 CFR 63.6645(a)(5).
2. You must comply with the applicable reporting requirements in pursuant to 40 CFR 63.6640(b).
3. You must comply with the applicable recordkeeping requirements in pursuant to 40 CFR 63.6655 and 40 CFR 63.6660, including keeping records for at least 5 years.

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

**Emission Point Characteristics**

*These emission points shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 45

Stack Opening, (inches, dia.): 19.5

Exhaust Flow Rate (acfm): 20,185

Exhaust Temperature (degrees F): 640

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permits 07-A-1335 and 07-A-1336

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Numbers: 3 and 4**

### Associated Equipment

Associated Emission Unit ID Numbers: 3 and 4

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Emission Units vented through these Emission Points: 3 and 4  
Emission Unit Description: Cooper 2 Cycle Lean Burn Engines  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 1,500 BHP per unit

### Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 40%  
Authority for Requirement: 567 IAC 23.2(2)"d"

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.1 gr/dsf  
Authority for Requirement: 567 IAC 23.2(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limits: 500 ppmv  
Authority for Requirement: 567 IAC 23.3(2)"e"

#### Operational Limits & Reporting and Recordkeeping Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

#### **NESHAP Subpart ZZZZ Requirements:**

These non-emergency engines are subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(iii) spark ignition non-emergency engines, located at an area source, are an existing stationary RICE as they were constructed prior to June 12, 2006.

#### Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of subpart ZZZZ that are applicable by October 19, 2013.

Operation and Maintenance Requirements

1. Change oil and filter every 4,320 hours of operation or annually, whichever comes first. (See 63.6625(j) for the oil analysis option to extend time frame of requirements.)
2. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Notification, Reporting and Recordkeeping Requirements

1. An initial notification is not required in pursuant to 40 CFR 63.6645(a)(5).
2. You must comply with the applicable reporting requirements in pursuant to 40 CFR 63.6640(b).
3. You must comply with the applicable recordkeeping requirements in pursuant to 40 CFR 63.6655 and 40 CFR 63.6660, including keeping records for at least 5 years.

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

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 Numbers: 9 and 10**

### Associated Equipment

Associated Emission Unit ID Numbers: 9 and 10  
Emission Control Equipment ID Numbers: CE-9 and CE-10  
Emissions Control Equipment Description: Oxidation Catalyst (NSCR)

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Emission Units vented through these Emission Points: 9 and 10  
Emission Units Description: Waukesha 4 Cycle Rich Burn Engines  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 1,429 BHP per unit

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### **Applicable Requirements**

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

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

Pollutant: Opacity

Emission Limit(s): 10%

Authority for Requirement: DNR Construction Permits 07-A-1338 and 07-A-1339  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.21 lb/hr

Authority for Requirement: DNR Construction Permits 07-A-1338 and 07-A-1339

Pollutant: Particulate Matter (PM10)

Emission Limit(s): 0.21 lb/hr

Authority for Requirement: DNR Construction Permits 07-A-1338 and 07-A-1339

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permits 07-A-1338 and 07-A-1339  
567 IAC 23.3

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 0.94 lb/hr

Authority for Requirement: DNR Construction Permits 07-A-1338 and 07-A-1339

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 7.24 lb/hr

Authority for Requirement: DNR Construction Permits 07-A-1338 and 07-A-1339

## **Operational Limits & Reporting and Recordkeeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

### **NESHAP Subpart ZZZZ Requirements:**

#### **NESHAP:**

These non-emergency 4SRB, remote engines are subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(iii) these spark ignition non-emergency engines, located at an area source, are existing stationary RICE as they were constructed prior to June 12, 2006.

#### **Compliance Date**

Per 63.6595(a)(1) you must comply with the provisions of subpart ZZZZ that are applicable by October 19, 2013.

#### **Operation and Maintenance Requirements 40 CFR 63.6603, 6625, 6640 and Tables 2d, 6 to Subpart ZZZZ**

The following requirements apply to each engine individually:

1. Change oil and filter every 2,160 hours of operation or annually, whichever comes first. (See 63.6625(j) for the oil analysis option to extend time frame of requirements.)
2. Inspect spark plugs every 2,160 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 2,160 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

#### **Notification, Reporting and Recordkeeping Requirements**

1. An initial notification is not required in pursuant to 40 CFR 63.6645(a)(5).
2. You must comply with the applicable reporting requirements in pursuant to 40 CFR 63.6640(b).
3. You must comply with the applicable recordkeeping requirements in pursuant to 40 CFR 63.6655 and 40 CFR 63.6660, including keeping records for at least 5 years.
4. The RICE must meet the definition of remote stationary RICE in §63.6675 on the initial compliance date for the engine, October 19, 2013, in order to be considered a remote stationary RICE under this subpart. Owners and operators of existing RICE that meet the definition of remote stationary RICE in §63.6675 of this subpart as of October 19, 2013

must evaluate the status of their stationary RICE every 12 months. Owners and operators must keep records of the initial and annual evaluation of the status of the engine. If the evaluation indicates that the stationary RICE no longer meets the definition of remote stationary RICE in §63.6675 of this subpart, the owner or operator must comply with all of the requirements for existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP that are not remote stationary RICE within 1 year of the evaluation. 40 CFR 63.6603(f).

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

**Emission Point Characteristics**

*The emission points shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 25  
Stack Opening, (inches, dia.): 13.9  
Exhaust Flow Rate (acfm): 6,967  
Exhaust Temperature (degrees F): 1,125  
Discharge Style: Vertical, Unobstructed  
Authority for Requirement: DNR Construction Permits 07-A-1338 and 07-A-1339

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

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Compliance Assurance Monitoring Plan  
Catalyst for NO<sub>x</sub> Control for CE-9 and CE-10  
(2-20-2009)**

I. Background

a. Emissions Unit

Description:	Rich Burn Natural Gas Compressor Engines
Facility:	Redfield Compressor Station (EIQ 92-3879)
Unit IDs:	EU-9 Waukesha L7042 GSI, 1429 HP EU-10 Waukesha L7042 GSI, 1429 HP

b. Applicable Regulation, Emission Limits and Monitoring Requirements

NO<sub>x</sub>: <0.94 lb/hr

CO: <7.24 lb/hr

Monitoring requirements: Temperature of exhaust gas into the catalyst bed and inspection and maintenance program.

c. Control Technology

Non-selective reductive catalyst

II. Monitoring Approach

- a. The key elements of the monitoring approach are presented in Table 1 attachment.



Table 1. Monitoring Approach

	Indicator No. 1	Indicator No. 2
I. Indicator Measurement Approach	Temperature of exhaust gas to catalyst bed.	Inspection & Maintenance Plan (I/M). See enclosed I/M Plan.
II. Indicator Range	The indicator range is above 650 °F, but lower than 1250 °F. Excursions trigger corrective action, logging and reporting in semiannual report.	NA
III. Performance Criteria	Temperature is measured at the inlet to the catalyst by a thermocouple. The minimum accuracy is +/-5 °F.	Inspections are performed on the engine, AFR and the catalyst.
A. Data Representativeness		
B. Verification of Operational Status	Guarantee from thermocouple manufacturer.	Quarterly I/M inspections verify operating characteristics of the system.
C. QA/QC Practices and Criteria	Thermocouple scanner or other monitors are calibrated annually.	Qualified personnel perform inspection.
D. Monitoring Frequency	Temperature measured at least once per day during which the unit operates, recorded on log sheets once daily. Compliance assumed if recorded temperature is within indicator range.	Quarterly inspection in accordance with I/M plan.
Data Collection Procedures	Temperature data recorded on log sheet once a day.	Records are maintained to document the quarterly readings and any required maintenance.
Averaging period	N/A	N/A

## Inspection and Maintenance Plan

The following is an inspection and maintenance plan for engines that have catalytic converters. The plan is designed to ensure optimum operation of the converters, avoid situations that could cause converter damage and identify problems in a timely manner.

### Engine Operations

Proper engine operation is critical to the performance of catalytic converters. If an engine misfires, it produces high catalyst temperatures because the unburned air/fuel mixture burns when it contacts the catalyst. Several misfiring cylinders can produce enough heat to cause permanent damage to the catalyst.

Preventative Maintenance: Each engine will be checked every 2,000 hours and during quarterly tests for proper operation and for misfiring conditions.

### Over-Temperature System

The converter is equipped with an over-temperature system that protects the catalyst from excessive temperature conditions caused by engine misfires.

Preventative Maintenance: After one (1) year of operation, the catalyst over-temperature system will be tested to ensure it is working.

### Exhaust Temperature

For efficient converter operations, the exhaust gas must be above 650 °F at all times, with a maximum of 1250 °F.

Preventative Maintenance: The thermocouple measuring the exhaust temperature will be calibrated annually. The thermocouple probe will be inspected quarterly.

### Air/Fuel Ratio Controller

The air/fuel ratio controllers are used in conjunction with catalytic converters to control the oxygen content of the exhaust. The air/fuel ratio controllers are set to control oxygen content to less than 1%.

Preventative Maintenance: The air/fuel ratio set points will be checked and adjusted quarterly and the oxygen sensors will be replaced on an as needed basis. The controller and sensor will be checked annually to ensure that the alarm setpoints are correct.

### Performance Monitoring

Catalyst inlet temperature will be used to monitor catalyst performance.

Preventative Maintenance: A portable analyzer will be used quarterly (semi-annually or annually) to test the CO emission rate in the exhaust gas. Testing will not be required if an engine operates less than 10% (220 hours) in a quarter.

## **Emission Point ID Number: 12**

### Associated Equipment

Associated Emission Unit ID Numbers: 12  
Emissions Control Equipment ID Number: CE-12  
Emissions Control Equipment Description: Oxidation Catalyst

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Emission Unit vented through this Emission Point: 12  
Emission Unit Description: Caterpillar 4 Cycle Lean Burn Engine  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 1,818 BHP

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### 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

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 11-A-514-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.13 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 11-A-514-S1  
567 IAC 23.3(2)"a"

Pollutant: Particulate Matter (PM10)

Emission Limit(s): 0.13 lb/hr

Authority for Requirement: DNR Construction Permit 11-A-514-S1

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 11-A-514-S1  
567 IAC 23.3(2)"e"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 15.05 lb/hr, 1.0 gr/HP-hr

Authority for Requirement: DNR Construction Permit 11-A-514-S1  
567 IAC 23.1(2)"zzz"

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 2.0 gr/HP-hr  
Authority for Requirement: DNR Construction Permit 11-A-514-S1  
567 IAC 23.1(2)"zzz"

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 0.7 gr/HP-hr  
Authority for Requirement: DNR Construction Permit 11-A-514-S1  
567 IAC 23.1(2)"zzz"

### **Operational Limits & Reporting and Recordkeeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

#### **Operating Limits:**

- a. The fuel used in this emission unit, (EU 12) shall be limited to natural gas.
- b. The emission unit (EU-12) associated with this permit shall not be operated for more than 1,200 hours per twelve-month rolling period.

#### **Reporting and Recordkeeping:**

- a. The owner or operator shall maintain record clearly showing the type of fuel utilized in the affected emission unit, EU-12.
- b. The owner or operator shall record the hours of operation for the emission unit, EU-12, for each month of operation.
- c. The annual hours of operator for the emission unit, EU-12, shall be updated on a 12-month rolling basis, for each month of operation.
- d. The owner or operator shall maintain the oxidation catalyst per manufacturer's recommendation. A record shall be kept of all maintenance conducted on the generator and/or the oxidation catalyst.

#### **NESHAP Subpart ZZZZ Requirements:**

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

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

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

## **NSPS Subpart JJJJ Requirements:**

(Emission Unit 12 is a confirmed non-certified engine)

### Emission Standards:

(40 CFR 60.4233(e) and Table 1 to Subpart JJJJ)

<b>Emission Standards<sup>(1)</sup></b>					
<b>g/HP-hr</b>			<b>ppmvd at 15% O<sub>2</sub></b>		
<b>NO<sub>x</sub></b>	<b>CO</b>	<b>VOC<sup>(2)</sup></b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>VOC<sup>(2)</sup></b>
1.0	2.0	0.7	82	270	60

<sup>(1)</sup> Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O<sub>2</sub>.

<sup>(2)</sup> Formaldehyde emissions are not included.

### Compliance Demonstrations:

1. You must operate and maintain engine that achieves the required emission standards over the entire life of the engine (40 CFR 60.4234).
2. You must demonstrate compliance with the emission standards according to one of following methods (40 CFR 60.4243(b)):
  - a) Purchasing a certified engine that complies with the emission standards, or
  - b) Purchasing a non-certified engine and demonstrating compliance with the emission standards. You must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance in accordance with 40 CFR 60.4244.
3. You may operate the natural gas engine using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, a performance test must be conducted to demonstrate compliance with the emission standards. 40 CFR 60.4243(e).
4. It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. 40 CFR 60.4243(g).

### Notification, Reports, and Recordkeeping Requirements (40 CFR 60.4245):

1. If your engine is a certified engine, you must keep documentation from the manufacturer that the engine is certified to meet the emission standards. 40 CFR 60.4245(a)(3).
2. If your engine is not a certified engine or is a certified engine operating in a non-certified manner, you must keep documentation that the engine meets the emission standards. 40 CFR 60.4245(a)(4).

3. If your engine is not a certified engine, you must submit an initial notification as required in §60.7(a)(1). The notification must include the information in paragraphs (c)(1) through (5) of the section. 40 CFR 60.4245(c).
4. If your engine is subject to performance testing, you are required to notify the DNR 30 days prior to the test date and are required to submit a performance test report to the DNR after the completion of each performance test as conducted in §60.4244 within 60 days after the test has been completed. 40 CFR 60.4245(d).

Authority for Requirement: 40 CFR Part 60 Subpart JJJJ  
567 IAC 23.1(2)"zzz"

**Emission Point Characteristics**

*The emission points shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 40  
 Stack Opening, (inches, dia.): 12  
 Exhaust Flow Rate (scfm): 4,005  
 Exhaust Temperature (degrees F): 974  
 Discharge Style: Vertical, Unobstructed  
 Authority for Requirement: DNR Construction Permit 11-A-514-S1

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: 5

### Associated Equipment

Associated Emission Unit ID Number: 5

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Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity	DNR Construction Permit
5	5.01	Treater Incinerator-Incineration of H <sub>2</sub> S	H <sub>2</sub> S/ Natural Gas	0.069 tons/hr/	87-A-123-S8
	5.02	Treater Incinerator-Combustion Gas	Natural Gas	0.002MMcf/hr	

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### 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

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 87-A-123-S8  
567 IAC 23.2(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "25%" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dsf

Authority for Requirement: DNR Construction Permit 87-A-123-S8  
567 IAC 23.2(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: 260.0 lb/hr; 74 TPY

Authority for Requirement: DNR Construction Permit 87-A-123-S8

### **Operational Limits & Reporting and Recordkeeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

#### Operating Limit:

- A. The maximum amount of hydrogen sulfide combusted shall not exceed 138 pounds/hour.
- B. The maximum amount of hydrogen sulfide combusted shall not exceed 39.5 tons per twelve (12) month rolling period.

#### Reporting and Recordkeeping:

- A. The permit holder, owner or operator of the facility shall determine and record the amount of hydrogen sulfide flowing to the incinerator on an hourly basis.
- B. The permit holder, owner or operator of the facility shall determine and record the monthly and twelve month rolling total amount of hydrogen sulfide flowing to the incinerator on a monthly basis.

Authority for Requirement: DNR Construction Permit 87-A-123-S8

#### **NSPS Subpart LLL Requirements:**

This facility is subject to Subpart A (General Provisions, 40 CFR §60.1 through 40 CFR §60.19) and Subpart LLL (Standards of Performance for Onshore Natural Gas Processing: SO<sub>2</sub> Emissions, 40 CFR §60.640 through 40 CFR §60.648) of the New Source Performance Standards (NSPS). The facility has design capacity less than 2 long tons per day (LT/D) of hydrogen sulfide in the acid gas and is therefore only required to comply with the recordkeeping and reporting requirements of 40 CFR §60.647(c).

Per 40 CFR §60.647(c), to certify that a facility is exempt from the control requirements of these standards, each owner or operator of a facility with a design capacity less than 2 LT/D of H<sub>2</sub>S in the acid gas (expressed as sulfur) shall keep, for the life of the facility, an analysis demonstrating that the facility's design capacity is less than 2 LT/D of H<sub>2</sub>S expressed as sulfur.

Authority for Requirement: 40 CFR Part 60 Subpart LLL  
567 IAC 23.1(2)"aaa"



**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 124  
Stack Opening, (inches, dia.): 30  
Exhaust Flow Rate (scfm): 1,450  
Exhaust Temperature (degrees F): 500  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 87-A-123-S8

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

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: 8**

### Associated Equipment

Associated Emission Unit ID Number: 8

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Emission Unit vented through this Emission Point: 8  
Emission Unit Description: Solar Taurus Natural Gas Fired Turbine  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 7,381 BHP

### 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

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 07-A-1337-S4  
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.38 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 07-A-1337-S4  
567 IAC 23.3(2)"a"

Pollutant: Particulate Matter (PM10)

Emission Limit(s): 0.38 lb/hr

Authority for Requirement: DNR Construction Permit 07-A-1337-S4

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.015% by volume at 15% oxygen, dry basis

Authority for Requirement: DNR Construction Permit 07-A-1337-S4  
567 IAC 23.1(2)"aa"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 29.6 lb/hr, 25.0 tpy, 0.0198% by volume at 15% oxygen, dry basis

Authority for Requirement: DNR Construction Permit 07-A-1337-S4  
567 IAC 23.1(2)"aa"

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 22.5 lb/hr, 30.5 tpy

Authority for Requirement: DNR Construction Permit 07-A-1337-S4

### **Operational Limits & Reporting and Recordkeeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

#### Operating Limits:

1. This turbine shall only use natural gas as fuel.
2. The sulfur content of the natural gas combusted by this turbine shall not exceed 0.8% by weight.
3. The hours operated for EU-8 shall be recorded and denoted if the inlet air temperature is equal to or above 0°F, or below 0°F. A 12-month rolling total for CO and NOx emissions shall be calculated assuming the emission rate for the hours of operation at or above 0°F is equal to 5.71 lb/hr NOx and 7.0 lb/hr CO, and emissions during the hours of operation below 0°F are equal to 29.6 lb/hr NOx and 22.5 lb/hr CO.
4. For each switchout of a turbine engine core, the following requirements shall be followed:
  - a. Only engine cores that are of the same make, model, horsepower and emission rating as the existing engine core may be exchanged and replaced.
  - b. No changes in the engine cores affecting combustion characteristics shall be allowed that result in any emission increase.
  - c. A stack test to demonstrate continued compliance with the NOx and CO emission limits, and also the assumed rates listed for when the inlet air temperature is greater than 0°F in condition 3 above, will be required within 180 days of each replacement.

#### Reporting & Recordkeeping:

1. The sulfur content of the natural gas fired in this turbine shall be monitored according to 40 CFR 60.335(d).
2. The nitrogen content monitoring is waived due to the use of pipeline quality natural gas. The allowance due to fuel-bound nitrogen in the calculation of the nitrogen standard is assumed to be zero.
3. The owner or operator shall calculate and record the rolling 12-month total for NOx emissions, as set forth in Operating Limit condition 3 above. If the 12-month rolling total exceeds 20.0 tpy NOx, the owner or operator shall begin calculating a 365-day rolling total until the rolling total does not exceed 20.0 tpy NOx, in which case the owner or operator may revert back to a 12-month rolling total at the end of the following calendar month. All calculations shall be completed within five business days from the end of either the 365-day or 12-month rolling total period.
4. The owner or operator shall calculate and record the rolling 12-month total for CO emissions, as set forth in Operating Limit condition 3 above. If the 12-month rolling total exceeds 24.4 tpy CO, the owner or operator shall begin calculating a 365-day

rolling total until the rolling total does not exceed 24.4 tpy CO, in which case the owner or operator may revert back to a 12-month rolling total at the end of the following calendar month. All calculations shall be completed within five business days from the end of either the 365-day or 12-month rolling total period.

5. For each engine core switchout, the following requirements shall be met:
  - a. The owner or operator shall evaluate each required NOx test result according to the standards set forth in 40 CFR Appendix C to Part 60, and have this analysis available on site for review. The owner or operator shall notify the DNR within 30 days if this analysis indicates an increase in NOx emissions to the atmosphere that qualifies as a modification under NSPS rules, and make the unit subject to NSPS Subpart KKKK.
  - b. A log shall be kept of all engine core replacements, which lists the date of each replacement, and any components of the new engine core that differ from the previous engine core. If any components differ from the previous engine core, the record shall also note any effect on the combustion characteristics involved.
6. If there is a change in fuel supply from pipeline quality natural gas, the owner or operator shall notify the DNR immediately.

Authority for Requirement: DNR Construction Permit 07-A-1337-S4

**NSPS Subpart GG Requirements:**

The engine is subject to the requirements in 40 CFR 60 Subpart A-General Provisions and 40 CFR 63 Subpart GG-Standards of Performance for Stationary Gas Turbines. The owner or operator shall comply with all applicable portions of both subparts.

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

**Emission Point Characteristics**

*The emission points shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 54

Stack Opening, (inches, dia.): 50

Exhaust Flow Rate (acfm): 72,100

Exhaust Temperature (degrees F): 837

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 07-A-1337-S4

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

**Monitoring Requirements**

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

**Stack Testing:**

Pollutant – Nitrogen Oxides (NO<sub>x</sub>)

1st Stack Test to be Completed by (within 180 days of each core replacement)

Test Method – 40 CFR 60, Appendix A, Method 7E

Authority for Requirement –DNR Construction Permit 07-A-1337-S4

Pollutant – Carbon Monoxide (CO)

1st Stack Test to be Completed by (within 180 days of each core replacement)

Test Method – 40 CFR 60, Appendix A, Method 10

Authority for Requirement –DNR Construction Permit 07-A-1337-S4

*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: 11**

### Associated Equipment

Associated Emission Unit ID Number: LR-1

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Emission Unit vented through this Emission Point: 11  
Emission Unit Description: Liquid Redox System  
Raw Material/Fuel: Hydrogen Sulfide (H<sub>2</sub>S)  
Rated Capacity: 2.1 lb/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: Hydrogen Sulfide (H<sub>2</sub>S)  
Emission Limit(s): 2.1 lb/hr  
Authority for Requirement: DNR Construction Permit 08-A-017

#### **Operational Limits & Reporting and Recordkeeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

#### Reporting and Recordkeeping:

- A. All applicable recordkeeping set forth in NSPS Subpart A (40 CFR §60.1 – 40 CFR §60.19) and Subpart LLL (40 CFR §60.647).

Authority for Requirement: DNR Construction Permit 08-A-017  
40 CFR Part 60 Subpart LLL  
567 IAC 23.1(2)"aaa"

**NSPS Subpart LLL Requirements:**

This facility is subject to Subpart A (General Provisions, 40 CFR §60.1 through 40 CFR §60.19) and Subpart LLL (Standards of Performance for Onshore Natural Gas Processing: SO<sub>2</sub> Emissions, 40 CFR §60.640 through 40 CFR §60.648) of the New Source Performance Standards (NSPS). The facility has design capacity less than 2 long tons per day (LT/D) of hydrogen sulfide in the acid gas and is therefore only required to comply with the recordkeeping and reporting requirements of 40 CFR §60.647(c).

Per 40 CFR §60.647(c), to certify that a facility is exempt from the control requirements of these standards, each owner or operator of a facility with a design capacity less than 2 LT/D of H<sub>2</sub>S in the acid gas (expressed as sulfur) shall keep, for the life of the facility, an analysis demonstrating that the facility’s design capacity is less than 2 LT/D of H<sub>2</sub>s expressed as sulfur.

Authority for Requirement: DNR Construction Permit 08-A-017  
40 CFR Part 60 Subpart LLL  
567 IAC 23.1(2)"aaa"

**Emission Point Characteristics**

*This emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 55  
Stack Opening, (inches, dia.): 8  
Exhaust Flow Rate (acfm): 662  
Exhaust Temperature (degrees F): 100  
Discharge Style: Vertical, Unobstructed  
Authority for Requirement: DNR Construction Permit 08-A-017

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: 214

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Emission Unit vented through this Emission Point: 214

Emission Unit Description: Gasoline Storage Tank

Raw Material/Fuel: Gasoline

Rated Capacity: 1,000 Gallons

### **Applicable Requirements**

#### **Operational Limits & Reporting and Recordkeeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

#### **NESHAP CCCCCC Requirements:**

This unit is subject to 40 CFR 63 Subpart CCCCCC-National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities. According to 40 CFR 63.11111(d) This storage tank, located at an area source, is an existing storage tank as it was constructed prior to November 9, 2016

#### **§63.11115 What are my general duties to minimize emissions?**

Each owner or operator of an affected source under this subpart must comply with the requirements of paragraphs (a) and (b) of this section.

- a) You must, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
- b) You must keep applicable records as specified in §63.11125(d).

#### **§63.11116 Requirements for facilities with monthly throughput<sup>(1)</sup> of less than 10,000 gallons of gasoline.**

- a) You must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
  1. Minimize gasoline spills;
  2. Clean up spills as expeditiously as practicable;
  3. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
  4. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.



- b) You are not required to submit notifications or reports as specified in §63.11125, §63.11126, or subpart A of this part, but you must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.
- c) You must comply with the requirements of this subpart by the applicable dates specified in §63.11113.
- d) Portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable for compliance with paragraph (a)(3) of this section.

**§63.11125 What are my recordkeeping requirements?**

(d) Each owner or operator of an affected source under this subpart shall keep records as specified in paragraphs (d)(1) and (2) of this section.

- 1) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.
- 2) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.11115(a), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

<sup>(1)</sup>Per 63.11132 Monthly throughput means the total volume of gasoline that is loaded into, or dispensed from, all gasoline storage tanks at each GDF during a month. Monthly throughput is calculated by summing the volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the current day, plus the total volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the previous 364 days, and then dividing that sum by 12.

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: LAGOONS**

Associated Equipment

Associated Emission Unit ID Numbers: LAGOONS

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Emission Unit vented through this Emission Point: LAGOONS

Emission Unit Description: Wastewater Lagoons

Raw Material/Fuel: Wastewater

Rated Capacity: Approximately 25-acre Surface Area (throughput 220,000,000 gal.)

**Applicable Requirements**

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

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

There are no emission limits at this time.

**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: 13**

### Associated Equipment

Associated Emission Unit ID Number: 13

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Emission Units vented through this Emission Point: 13  
Emission Unit Description: Flare 1  
Raw Material/Fuel: Entrained Natural Gas from LAGOON  
Rated Capacity: 128.18 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  
Emission Limit(s): 40%<sup>(1)</sup>  
Authority for Requirement: DNR Construction Permit 17-A-075  
567 IAC 23.2(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 25% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 17-A-075  
567 IAC 23.2(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limits: 500 ppm<sub>v</sub>  
Authority for Requirement: DNR Construction Permit 17-A-075  
567 IAC 23.3(3)"e"

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limits: 38.0 tons/yr  
Authority for Requirement: DNR Construction Permit 17-A-075

Pollutant: Carbon Monoxide (CO)  
Emission Limits: 39.73 lb/hr  
Authority for Requirement: DNR Construction Permit 17-A-075

### **Operational Limits & Reporting and Recordkeeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

#### Operational Limits:

- A. The owner or operator shall operate a pilot flame. The pilot flame shall be equipped with an automatic spark igniter. If the automatic spark igniter is not functioning properly and the pilot flame is extinguished, the owner or operator shall note the date and time of the issue and promptly reignite the pilot flame.
- B. The owner or operator shall maintain the Flare 1 (EU 13) according to the manufacturer's specifications and recommendations. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Flare 1 (EU 13). This log shall include, but is not necessarily limited to:
  - a. The date and time any inspection and/or maintenance was performed on the Flare 1 (EU 13);
  - b. Any issues identified during the inspection and the date each issue was resolved;
  - c. Any issues addressed during the maintenance activities and the date each issue was resolved; and
  - d. Identification of the staff member performing the maintenance or inspection.
- C. The owner or operator shall not combust more than 115,152 million British thermal units (MMBtu) of waste gas in the Flare 1 (EU 13) in any rolling 12-month period. The owner or operator shall:
  - a. Maintain a monitoring device that tracks and records the monthly amount of waste gas combusted in the Flare 1 (EU 13), in million cubic feet (MMCF), and the average heating value of the waste gas;
  - b. On a monthly basis, calculate and record the amount of waste gas combusted in the Flare 1 (EU 13), in MMBtu; and
  - c. On a monthly basis, calculate and record the rolling 12-month total amount of the of waste gas combusted in the Flare 1 (EU 13), in MMBtu.

Authority for Requirement: DNR Construction Permit 17-A-075

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

- Stack Height, (ft, from the ground): 60
- Stack Opening, (inches, dia.): 4
- Exhaust Flow Rate (scfm): 450
- Exhaust Temperature (degrees F): 2,000
- Discharge Style: Vertical, Unobstructed
- Authority for Requirement: DNR Construction Permit 17-A-075

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

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 15****Associated Equipment**

<b>Emission Unit</b>	<b>Emission Unit Description</b>	<b>Raw Material</b>	<b>Rated Capacity</b>	<b>Construction Permit</b>
15	Flare 3	Natural Gas	13.13 MMBtu/hr	19-A-415

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**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

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 19-A-415  
567 IAC 23.3(2)"d"

<sup>(1)</sup>The flare shall operate with no visible emissions, except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours. Therefore, outside of these periods, an exceedance of the indicator opacity of "no visible emissions" will require the owner or operator to promptly investigate the emission unit(s) and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g. stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 19-A-415  
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppm<sub>v</sub>

Authority for Requirement: DNR Construction Permit 19-A-415  
567 IAC 23.3(3)"e"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 38.0 tons/yr

Authority for Requirement: DNR Construction Permit 19-A-415

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The owner or operator shall operate a pilot flame. The pilot flame shall be equipped with an automatic spark igniter.
  - a. If the automatic spark igniter is not functioning properly and the pilot flame is extinguished, the owner or operator shall note the date and time of the issue and promptly reignite the pilot flame.
- B. The owner or operator shall not combust more than 115,152 million British thermal units (MMBtu) of waste gas in Flare 3 (EU 15) in any rolling 12-month period. The owner or operator shall:
  - a. Maintain a monitoring device that tracks and records the monthly amount of waste gas combusted in Flare 3 (EU 15), in million cubic feet (MMcf), and the average heating value of the waste gas;
  - b. On a monthly basis, calculate and record the amount of waste gas combusted in Flare 3 (EU 15), in MMBtu; and,
  - c. On a monthly basis, calculate and record the rolling 12-month total amount of the of waste gas combusted in Flare 3 (EU 15), in MMBtu.
- C. Flare 3 (EU 15) shall be operated with no visible emissions, except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours.
- D. The owner or operator shall maintain Flare 3 (EU 15) according to the manufacturer's specifications and recommendations. The owner or operator shall maintain a log of all maintenance and inspection activities performed on Flare 3 (EU 15). This log shall include, but is not necessarily limited to:
  - a. The date and time any inspection and/or maintenance was performed on Flare 3 (EU 15);
  - b. Any issues identified during the inspection and the date each issue was resolved;
  - c. Any issues addressed during the maintenance activities and the date each issue was resolved; and,
  - d. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 19-A-415

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft., from the ground): 25  
Stack Opening, (inches, dia.): 18  
Exhaust Flow Rate (scfm): 210  
Exhaust Temperature (°F): 1,800  
Discharge Style: Vertical, unobstructed  
Authority for Requirement: DNR Construction Permit 19-A-415

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)



## **IV. General Conditions**

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

### **G1. Duty to Comply**

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

### **G2. Permit Expiration**

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

### **G3. Certification Requirement for Title V Related Documents**

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable

inquiry, the statements and information in the document are true, accurate, and complete. 567 IAC 22.107 (4)

#### **G4. Annual Compliance Certification**

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

#### **G5. Semi-Annual Monitoring Report**

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. 567 IAC 22.108 (5)

#### **G6. Annual Fee**

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

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

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

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

### **G8. Duty to Provide Information**

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

### **G9. General Maintenance and Repair Duties**

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

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

### **G10. Recordkeeping Requirements for Compliance Monitoring**

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

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

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

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
  - a. Comply with all terms and conditions of this permit specific to each alternative scenario.
  - b. Maintain a log at the permitted facility of the scenario under which it is operating.
  - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

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

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

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

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

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

**G13. Hazardous Release**

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

**G14. Excess Emissions and Excess Emissions Reporting Requirements**

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a

violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

## 2. Excess Emissions Reporting

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

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

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

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.

v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.

vi. The steps that were taken to limit the excess emission.

vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

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

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

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

#### **G15. Permit Deviation Reporting Requirements**

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

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

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

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
  - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
  - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
  - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
  - d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));
  - e. The changes comply with all applicable requirements.
  - f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
    - i. A brief description of the change within the permitted facility,
    - ii. The date on which the change will occur,
    - iii. Any change in emission as a result of that change,
    - iv. The pollutants emitted subject to the emissions trade
    - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
    - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
    - vii. Any permit term or condition no longer applicable as a result of the change.
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

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

### **G18. Duty to Modify a Title V Permit**

#### **1. Administrative Amendment.**

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

#### **2. Minor Title V Permit Modification.**

- a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
  - i. Do not violate any applicable requirement;
  - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
  - iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
  - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
  - v. Are not modifications under any provision of Title I of the Act; and
  - vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
  - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;



- ii. The permittee's suggested draft permit;
  - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
  - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
- c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

### 3. Significant Title V Permit Modification.

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

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

#### **G19. Duty to Obtain Construction Permits**

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

#### **G20. Asbestos**

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

#### **G21. Open Burning**

The permittee is prohibited from conducting open burning, except as provided in 567 IAC 23.2. *567 IAC 23.2 except 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only*

## **G22. Acid Rain (Title IV) Emissions Allowances**

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

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

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

has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

5. The permittee shall be allowed to switch from any ozone-depleting or greenhouse gas generating substances to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

#### **G24. Permit Reopenings**

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

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

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

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

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

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

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

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

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

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

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

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

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

#### **G25. Permit Shield**

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

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

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

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

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

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

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

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

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

#### **G26. Severability**

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

#### **G27. Property Rights**

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

#### **G28. Transferability**

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

#### **G29. Disclaimer**

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

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

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

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

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

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

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

### **G31. Prevention of Air Pollution Emergency Episodes**

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

*567 IAC 26.1(1)*

**G32. Contacts List**

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

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

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

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

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

**Field Office 1**

1101 Commercial Court, Suite 10  
Manchester, IA 52057  
(563) 927-2640

**Field Office 2**

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

**Field Office 3**

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

**Field Office 4**

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

**Field Office 5**

Wallace State Office Building  
502 E 9<sup>th</sup> St.  
Des Moines, IA 50319-0034  
(515) 725-0268

**Field Office 6**

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

**Polk County Public Works Dept.**

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

**Linn County Public Health**

Air Quality Branch  
1020 6<sup>th</sup> Street SE  
Cedar Rapids, IA 52401  
(319) 892-6000

# Appendix A: Federal Requirements

## Links to Standards

1. 40 CFR 60 Subpart GG-Standards of Performance for Stationary Gas Turbines <https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.14.60.gg>
2. 40 CFR 60 Subpart LLL – Standards of Performance for SO<sub>2</sub> Emissions From Onshore Natural Gas Processing for Which Construction, Reconstruction, or Modification Commenced After January 20, 1984, and on or Before August 23, 2011 <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-LLL>
3. 40 CFR 60 Subpart JJJJ – National Emission Standards for Stationary Spark Ignition Internal Combustion Engines. <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-JJJJ>
4. 40 CFR 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. <https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.14.63.zzzz>
5. 40 CFR 63 Subpart CCCCCC – National Emission Standards Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities. <https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.14.63.cccccc>