

Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: Cedar Rapids WPCF
Facility Location: 7525 Bertram Road SE, Cedar Rapids, IA 52403
Air Quality Operating Permit Number: 05-TV-001R1
Expiration Date: December 31, 2018
Permit Renewal Application Deadline: June 30, 2018
EIQ Number: 92-9044
Facility File Number: 57-01-077

Responsible Official

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

For the Director of the Department of Natural Resources



Lori Hanson, Supervisor of Air Operating Permits Section

1/1/14

Date

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Abbreviations

acfm.....	actual cubic feet per minute
CAS.....	Carbonaceous Activated Sludge
CFR.....	Code of Federal Regulation
CE	control equipment
CEM.....	continuous emission monitor
DAF.....	dissolved air flotation
°F	degrees Fahrenheit
EIQ	emissions inventory questionnaire
EP	emission point
EU	emission unit
gr./dscf	grains per dry standard cubic foot
gr./100 cf.....	grains per one hundred cubic feet
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MCC.....	Main Control Center
ML.....	Main Lift
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
NAS.....	Nitrification Activated Sludge
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
WPCF.....	Water Pollution Control Facility

Pollutants

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

I. Facility Description and Equipment List

Facility Name: Cedar Rapids Water Pollution Control Facility

Permit Number: 05-TV-001R1

Facility Description: Sewage Treatment Plant (SIC 4952)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH ATI / PTO Numbers
001	001-1	Main Lift Carbon Scrubber – East Stack	4532 / 4753
003	001-1	Main Lift Carbon Scrubber – West Stack	4714 / 4754
013	013-1	Sludge Incinerator Solid Waste Disposal	6124 / 6078
013	013-1B	Sludge Incinerator Biogas Combustion	6124 / 6078
014	014-1	Multiple Hearth Incinerator Emergency Bypass	4459 / 4516
015	015-1	Auxiliary Boiler #3	6073 / 6157
016	016-1	Auxiliary Boiler #2 (North Boiler)	5050 / 5149
017	017-1	Auxiliary Boiler #1 (South Boiler)	5051 / 5148
018	019A	Solids Handling Area/Belt Filter Press Area/Blend Tanks Odorous Air	5471 / 5380
019	019-1	Solids Handling Area Odorous Air	5738 / 5407
020	019B	Decant Tanks & Centrifuge Area Odorous Air	5472 / 5381
021	021-1	Alkaline Stabilization Lime Silo #1 (East)	6035 / 6103
022	022-1	Alkaline Stabilization Lime Silo #2 (West)	6036 / 6104
034	034-1	CAS/NAS Limestone Silo – North	1313 / 1040
036	036-1	Standby Generator (Main Lift)	1946 / 1912
037	037-1	Standby Generator (Solids Dewatering)	6037 / 6113
040	040-1	Standby Generator (#3N – Final Lift)	2782 / 2772
041	041-1	Standby Generator (#7S – Final Lift)	2781 / 2773
051	051-1	Bio-Scrubber #1 (West Odor Control Unit)	5129 / 5150
052	052-1	Bio-Scrubber #2 (East Odor Control Unit)	5130 / 5151
053	053-1	Excess Biogas Flare (North)	5878 / 6105
054	053-1	Excess Biogas Flare (South)	5879 / 6106
056	056-1	Emergency Biogas Flare	5880 / 6107

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
002-1 ⁽¹⁾	Main Lift Carbon Scrubber (LCPH ATI 1 / PTO 2195)
055-1 ⁽¹⁾	Anaerobic Bioreactor (LCPH ATI 4702 / PTO 0)
104-1 ⁽¹⁾	Diesel Tank (Main Lift) (LCPH ATI 3771 / PTO 3695)
105-1 ⁽¹⁾	Diesel Tank (Solids) (LCPH ATI 3772 / PTO 3696)
106-1 ⁽¹⁾	3N and 7S Diesel Storage Tank (LCPH ATI 3773 / PTO 3697)
204-1	Space Heaters – Incineration Building (2)
206-1	Space Heaters – Solids Pump Building (2)
207-1	Air Makeup Units (10)
208-1	Space Heaters – Centrifuge Bldg. (6)

⁽¹⁾ The construction permit associated with this emission unit does not contain any specific terms or conditions, therefore it qualifies as an insignificant activity per rule 567 IAC 22.103.

II. Plant-Wide Conditions

Facility Name: Cedar Rapids WPCF

Permit Number: 05-TV-001R1

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

Permit Duration

The term of this permit is: less than 5 years

Commencing on: January 1, 2018

Ending on: December 31, 2018

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

Emission Limits

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

Opacity (visible emissions): 20% opacity

Authority for Requirement: LCO 10.7

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

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

LCO 10.12(2)

Particulate Matter:

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

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

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

Particulate Matter: No person shall permit, cause, suffer or allow the emission of particulate matter into the atmosphere in any one hour from any emission point from any process equipment at a rate in excess of that specified in Table I for the process weight rate allocated to such emission point. The emission standards in LCO 10.9 (1)"a" shall apply and those specified in LCO 10.8 and 10.9 and Table I shall not apply to each process of the types listed in those sections, with the following exception: whenever the compliance status, history of operations, ambient air quality in the vicinity, or the type of control equipment utilized, would warrant

maximum control, the Air Pollution Control Officer may enforce 0.1 grain per standard cubic foot of exhaust gas, or Table I of this section, whichever would result in the lowest allowable emission rate.

Authority for Requirement: LCO 10.9(1)

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

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

Authority for Requirement: 567 IAC 23.3(2)"c"
LCO 10.13

Regulatory Authority

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

Authority for Requirement: 567 IAC 22.108

III. Emission Point-Specific Conditions

Facility Name: **Cedar Rapids WPCF**

Permit Number: **05-TV-001R1**

Emission Point ID Number: 001

Associated Equipment

Associated Emission Unit ID Numbers: 001-1

Emissions Control Equipment ID Number: 001-1

Emissions Control Equipment Description: Carbon Scrubber

Emission Unit vented through this Emission Point: 001-1

Emission Unit Description: Carbon Scrubber

Raw Material/Fuel: Air

Rated Capacity: 0.54 MMCF/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): 20%

Authority for Requirement: LCPH ATI 4532 / PTO 4753
LCO 10.7

Pollutant: Hydrogen Sulfide

Emission Limit(s): 2.15 lb/hr, 9.4 tpy*

Authority for Requirement: LCPH ATI 4532 / PTO 4753

*Considered a stand alone project. This is a combined emission allowable for emission points 001 and 003.

Operational Limits & Requirements

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

Control Device:

A carbon scrubber shall be used to control H₂S emissions. The control equipment shall be maintained properly and operated at all times while the air pollution source is in operation.

Authority for Requirement: LCPH ATI 4532 / PTO 4753

NSPS and NESHAP Applicability:

This emission unit is not subject to the New Source Performance Standards (NSPS) as there are no subparts for this source category.

This emission unit is not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) as the facility is not a major source of Hazardous air pollutant (HAP) emissions at this time. In addition there is not an area source maximum available control technology (MACT) standard promulgated or proposed for this source category at this time. Authority for Requirement: LCPH ATI 4532 / PTO 4753

Operating Limits:

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

- Scrubber shall be maintained per manufacturer's specifications

Authority for Requirement: LCPH ATI 4532 / PTO 4753

Operating Condition Monitoring and Record keeping:

A log of operation shall be maintained for the operation of the above listed unit.

- Records of all maintenance and repair completed on the control device

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 4532 / PTO 4753

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 15.3

Discharge Style: Vertical, obstructed

Stack Opening (inches, diameter): 24

Exhaust Temperature (°F): 55-80°F

Exhaust Flowrate (acfm): 4500

Authority for Requirement: LCPH ATI 4532 / PTO 4753

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 003

Associated Equipment

Associated Emission Unit ID Numbers: 003-1

Emissions Control Equipment ID Number: 003-1

Emissions Control Equipment Description: Carbon Scrubber

Emission Unit vented through this Emission Point: 001-1

Emission Unit Description: Main Lift Carbon Scrubber – West Stack

Raw Material/Fuel: Air

Rated Capacity: 0.54 MMCF/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): 20%

Authority for Requirement: LCPH ATI 4714 / PTO 4754
LCO 10.7

Pollutant: Hydrogen Sulfide

Emission Limit(s): 2.15 lb/hr, 9.4 tpy*

Authority for Requirement: LCPH ATI 4714 / PTO 4754

*Considered a stand alone project. This is a combined emission allowable for emission points 001 and 003.

Operational Limits & Requirements

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

Control Device:

A carbon scrubber shall be used to control H₂S emissions. The control equipment shall be maintained properly and operated at all times while the air pollution source is in operation.

Authority for Requirement: LCPH ATI 4714 / PTO 4754

NSPS and NESHAP Applicability:

This emission unit is not subject to the New Source Performance Standards (NSPS) as there are no subparts for this source category.

This emission unit is not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) as the facility is not a major source of Hazardous air pollutant (HAP) emissions at this time. In addition there is not an area source maximum available control technology (MACT) standard promulgated or proposed for this source category at this time.

Authority for Requirement: LCPH ATI 4714 / PTO 4754

Operating Limits:

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

- Scrubber shall be maintained per manufacturer's specifications

Authority for Requirement: LCPH ATI 4714 / PTO 4754

Operating Condition Monitoring and Record keeping:

A log of operation shall be maintained for the operation of the above listed unit.

- Records of all maintenance and repair completed on the control device

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 4714 / PTO 4754

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 15.3

Discharge Style: Vertical, obstructed

Stack Opening (inches, diameter): 24

Exhaust Temperature (°F): 55-80°F

Exhaust Flowrate (acfm): 4500

Authority for Requirement: LCPH ATI 4714 / PTO 4754

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 013**Associated Equipment**

Associated Emission Unit ID Numbers: 013-1

Emissions Control Equipment: 013-1, 053-1

Emissions Control Equipment Description: Venturi Scrubber System; Paques Thiopaq Biogas Sulfur Scrubber

Emission Unit vented through this Emission Point: 013-1

Emission Unit Description: Sludge Incinerator Solid Waste Disposal

Raw Material/Fuel: Sludge, Natural Gas

Rated Capacity: 30.15 MMBtu/hr

Emission Unit vented through this Emission Point: 013-1B

Emission Unit Description: Sludge Incinerator Biogas Combustion

Raw Material/Fuel: Sludge, Biogas

Rated Capacity: 30.15 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 Limits: 20 %

Authority for Requirement: LCPH ATI 6124 / PTO 6078
LCO 10.7
40 CFR 60.152(a) (2) Subpart O
LCO 10.9(2)"a"(11)
567 IAC 23.1(2)"k"

Pollutant: PM-10

Emission Limit(s): 3.04 lb/hr

Authority for Requirement: LCPH ATI 6124 / PTO 6078

Pollutant: Particulate Matter

Emission Limit(s): 1.30 lb/ton dry sludge input, 0.2 gr/dscf (adjusted to 12 % carbon dioxide)

Authority for Requirement: LCPH ATI 6124 / PTO 6078
40 CFR 60.152(a)(1) Subpart O
40 CFR 60.153(d) Subpart O
LCO 10.9(2)"a"(11)
LCO 10.9(1)"l"
567 IAC 23.1(2)"k"

Pollutant: Beryllium

Emission Limit(s): 10 grams per 24-hour period.

Authority for Requirement: LCPH ATI 6124 / PTO 6078
40 CFR 61.32(a) Subpart C
LCO 10.9(3)"b"
567 IAC 23.1(3)"b"

Pollutant: Mercury

Emission Limit(s): 3.2 kg per 24-hour period.

Authority for Requirement: LCPH ATI 6124 / PTO 6078
40 CFR 61.52(b) Subpart E
LCO 10.9(3)"d"
567 IAC 23.1(3)"d"

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 100 ppmv ⁽¹⁾

Authority for Requirement: 40 CFR 503.40(c) (1-3) Subpart E
LCO 10.9(2)"a"(11)
567 IAC 23.1(2)"k"

⁽¹⁾ Parts per million on a volumetric basis, monthly average concentration, corrected for zero percent moisture and to seven percent oxygen.

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 9.0 lb/hr, 39.4 tpy⁵

Authority for Requirement: LCPH ATI 6124 / PTO 6078

⁵Aggregate SO₂ emissions from EP013, EP053, EP054, and EP056 shall not exceed the 39.4 tons per 12-month rolling total limit from the burning of biogas fuel.

Pollutant: Nitrogen Oxide (NO_x)

Emission Limit(s): 7.40 lb/hr

Authority for Requirement: LCPH ATI 6124 / PTO 6078

Pollutant: Total Hydrocarbons

Emission Limit(s): 100 ppmv ⁽¹⁾

Authority for Requirement: 40 CFR 503, Subpart E
LCO 10.9(2)"a"(11)
567 IAC 23.1(2)"k"

Operational Limits & Requirements

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

NSPS and NESHAP Applicability:

This unit is subject to the following standards:

- 40 CFR 60, Subpart O – Standards of Performance for Sewage Treatment Plants.
- 40 CFR 503, Subpart E – Incineration.
- 40 CFR 61, Subpart C – National Emission Standard for Beryllium.
- 40 CFR 61, Subpart E – National Emission Standard for Mercury.
- 40 CFR 60, Subpart A – General Provisions
- 40 CFR 61, Subpart A – General Provisions

Authority for Requirement: LCPH ATI 6124 / PTO 6078

Control Devices:

A sulfur scrubber is located upstream of the incinerator to remove 99% of the hydrogen sulfide (H₂S) content from the biogas and hence reduce SO₂ emissions during incineration.

A Venturi scrubber shall be used to control particulate emissions generated by the sludge incinerator.

The Venturi scrubber system shall be maintained properly and operated at all times sewage sludge is being fed to the multiple hearth incinerator. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 6124 / PTO 6078

Operating Limits:

- The sulfur scrubber shall maintain effective removal efficiency for H₂S at a level no less than 99% during operation. The content of H₂S in the biogas shall be determined upstream and downstream of the sulfur scrubber in order to calculate the scrubber efficiency. Appropriate grab samples shall be collected at a minimum of 3 days a week.
- On occurrences where the sulfur scrubber efficiency is determined to be less than 99%, daily efficiency determinations shall be made and emissions calculated until an efficiency of 99% is maintained, except on weekends and holidays. On weekends and holidays, efficiency determinations and emissions shall be calculated on the next business day and daily thereafter during business days until an efficiency of 99% is maintained.
- During periods that the sulfur scrubber and/or associated equipment is taken offline for maintenance and/or repair, all biogas shall be directed through a flare. The incinerator shall not be allowed to burn unscrubbed biogas.
- Fuel for this unit shall be limited to biogas or natural gas.
- The owner or operator shall comply with the requirements of 40 CFR §60.1-19 [NSPS Subpart A] to comply with LCCO 10.9(2).
- The owner or operator shall comply with the requirements of NSPS Subpart O by meeting the standards and monitoring of operations of 40 CFR §60.152 and 40 CFR §60.153 to comply with LCCO 10.9(2)(40).

- The owner or operator shall comply with the requirements of 40 CFR §61.1-19 [NESHAP Subpart A] to comply with LCCO 10.9(3).
- The owner or operator shall comply with the requirements of NESHAP Subpart C by meeting the emission standard of 40 CFR §61.32 to comply with LCCO 10.9(3)(b).
- The owner or operator shall comply with the requirements of NESHAP Subpart E by meeting the emission standard of 40 CFR §61.52 to comply with LCCO 10.9(3)(d).
- The owner or operator shall comply with the requirements of NESHAP Subpart E by meeting the monitoring of emissions and operations of 40 CFR §61.55 to comply with LCCO 10.9(3)(d).
- The owner or operator shall comply with the requirements of 40 CFR 503 Subpart E by complying with the requirements of 40 CFR §503.42-47.

Authority for Requirement: LCPH ATI 6124 / PTO 6078

Operating Condition Monitoring and Recordkeeping:

The following information shall be monitored and recorded:

- Total monthly calculated biogas production based on a 12-month rolling sum.
- Daily biogas flow rate to the incinerator.
- Monthly and 12-month rolling sum of the SO₂ emissions from the combustion of biogas in the incinerator.
- Calculated removal efficiency of the sulfur scrubber.
- H₂S content of biogas prior to the sulfur scrubber.
- H₂S content of biogas after the sulfur scrubber.
- Continuous recording of carbon monoxide or total hydrocarbons concentration in the exit gas of the incinerator.
- Continuous recording of oxygen concentration in exit gas of the incinerator pursuant to 40 CFR §60.153(b)(2).
- Continuous recording of pressure drop through the Venturi scrubbing system pursuant to 40 CFR §60.153(b)(1).
- Continuous recording of pH of the sulfur scrubber liquor to regulate the NaOH make-up feed rates to the scrubber.
- Daily water flow reading to the incinerator wet scrubber (gallons per minute)
- Daily liquid flow through the sulfur scrubber (gallons per minute)
- Record of all maintenance and repair completed to the Venturi scrubber.
- Record of all maintenance and repair completed to the sulfur scrubber.
- Initial notification and recordkeeping shall be performed in accordance with 40 CFR §60.7 to comply with LCCO 10.9.2(64).
- The owner or operator shall comply with the monitoring and recordkeeping requirements of 40 CFR 503 Subpart E pursuant to §503.47.
- Collect and analyze a grab sample of the sludge fed to the incinerator once per day. The dry sludge content and the volatile solids content of the sample shall be determined in accordance with the method specified under 60.154(b)(5).
- If PM > 0.75 lb/dry ton, an instrument that continuously measures the mass or volume of sludge charged to the incinerator shall be installed, calibrated, operated and maintained according to the manufacturer's instructions pursuant to 40 CFR §60.153(a)(1).
- If PM > 0.75 lb/dry ton, an instrument that continuously measures and records temperatures in each hearth in the cooling and drying zones, and two temperature

monitoring devices shall be installed in each hearth in the combustion zone pursuant to 40 CFR §60.153(b)(3).

- If PM > 0.75 lb/dry ton, an instrument that continuously measures fuel flow to the incinerator shall be installed, calibrated, operated and maintained according to the manufacturer's instructions pursuant to 40 CFR §60.153(b)(4).

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 6124 / PTO 6078

Report Requirements:

- Submit excess emission reports as required in Linn County Ordinance, Chapter 10, Section 14.
- Submit a semi-annual report on March 31st (for 7/1 – 12/31 of the previous calendar year) and on September 30th (for 1/1 – 6/30 of the current year) summarizing the SO₂ emissions generated from the combustion of biogas in the incinerator and biogas production overall.
- Submit a semi-annual report as required in 40 CFR 60.155, Subpart O on March 31st (for 7/1 – 12/31 of the previous calendar year) and on September 30th (for 1/1 – 6/30 of the current year).
- Submit an annual report as required in 40 CFR 503, Subpart E by February 19th for the previous calendar year.
- The owner or operator shall comply with the notification of startup requirements of NESHAP Subpart A pursuant to 40 CFR §61.09.

Authority for Requirement: LCPH ATI 6124 / PTO 6078

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet, from ground): 64.25

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 62.5

Exhaust Temperature (°F): 125

Exhaust Flowrate (acfm): 25318

Authority for Requirement: LCPH ATI 6124 / PTO 6078

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

Monitoring Requirements

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

Stack Testing:

Pollutant – Nitrogen Oxides (NOx)

1st Stack Test to be Completed by – January 1, 2016

Test Method – Method 7E (40 CFR 60) or approved alternative

Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Carbon Monoxide (CO)

1st Stack Test to be Completed by - January 1, 2016

Test method – Method 10 (40 CFR 60) or approved alternative

Authority for Requirement – 567 IAC 22.108(3)

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).

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>20 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 014

Associated Equipment

Associated Emission Unit ID Numbers: 014-1

Emission Unit vented through this Emission Point: 014-1

Emission Unit Description: Multiple Hearth Incinerator Emergency By-Pass

Raw Material/Fuel: Sludge/Fuel

Rated Capacity: 3.0 dry ton/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 Limits: 20 %

Authority for Requirement: LCPH ATI 4459/ PTO 4516
LCO 10.7
40 CFR 60.152(a) (2) Subpart O
LCO 10.9(2)"a"(11)
567 IAC 23.1(2)"k"

Pollutant: PM-10

Emission Limit(s): 3.04 lb/hr

Authority for Requirement: LCPH ATI 4459/ PTO 4516

Pollutant: Particulate Matter

Emission Limit(s): 1.30 lb/ton dry sludge input, 0.2 gr/dscf

Authority for Requirement: LCPH ATI 4459/ PTO 4516
40 CFR 60.152(a)(1) Subpart O
40 CFR 60.153(d) Subpart O
LCO 10.9(2)"a"(11)
LCO 10.9(1)"l"
567 IAC 23.1(2)"k"

Pollutant: Beryllium

Emission Limit(s): 10 grams per 24-hour period.

Authority for Requirement: LCPH ATI 4459 / PTO 4516
40 CFR 61.32(a) Subpart C
LCO 10.9(3)"b"
567 IAC 23.1(3)"b"

Pollutant: Mercury

Emission Limit(s): 3.2 kg per 24-hour period.

Authority for Requirement: LCPH ATI 4459 / PTO 4516
40 CFR 61.52(b) Subpart E
LCO 10.9(3)"d"
567 IAC 23.1(3)"d"

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 100 ppmv ⁽¹⁾

Authority for Requirement: 40 CFR 503.40(c) (1-3) Subpart E
LCO 10.9(2)"a"(11)
567 IAC 23.1(2)"k"

⁽¹⁾ Parts per million on a volumetric basis, monthly average concentration, corrected for zero percent moisture and to seven percent oxygen.

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 9.0 lb/hr, 39.4 tpy⁵

Authority for Requirement: LCPH ATI 4459/ PTO 4516

⁵Aggregate SO₂ emissions from EP013, EP053, EP054, and EP056 shall not exceed the 39.4 tons per 12-month rolling total limit from the burning of biogas fuel.

Pollutant: Nitrogen Oxide (NO_x)

Emission Limit(s): 7.40 lb/hr

Authority for Requirement: LCPH ATI 4459 / PTO 4516

Pollutant: Total Hydrocarbons

Emission Limit(s): 100 ppmv ⁽¹⁾

Authority for Requirement: 40 CFR 503, Subpart E
LCO 10.9(2)"a"(11)
567 IAC 23.1(2)"k"

Operational Limits & Requirements

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

Excess Emissions:

All emissions from this source shall be considered excess emissions except for by-pass events that occur during startup and/or shutdown. The owner or operator shall report any emissions as required by this rule.

Authority for Requirement: LCPH ATI 4459 / PTO 4516
LCO 10.14

NSPS and NESHAP Applicability:

This emission point is subject to any New Source Performance Standards or National Emission Standards for Hazardous Air Pollutants that apply to the incinerator itself. The multiple hearth incinerator is subject to the following:

- 40 CFR 60, Subpart O – Standards of Performance for Sewage Treatment Plants

- 40 CFR 503, Subpart E – Incineration
- 40 CFR 61, Subpart C – National Emission Standard for Beryllium
- 40 CFR 61, Subpart E – National Emission Standard for Mercury
- 40 CFR 60, Subpart A – General Provisions
- 40 CFR 61, Subpart A – General Provisions

Authority for Requirement: LCPH ATI 4459 / PTO 4516

Operating Limits:

There are no operating limits for this source at this time. This bypass can only be used during emergency (upset) conditions. Emissions from these emergency (upset) bypass events must be quantified for EIQ purposes.

Operating Condition Monitoring and Record keeping:

The following information shall be monitored and recorded.

- Continuous recording of carbon monoxide or total hydrocarbons concentration in the exit gas of the incinerator.

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

- Record all emergency bypass periods for the multiple hearth incinerator including the date, time, and duration of the bypass, the cause of the bypass use, and a description of the product run at the time of the bypass (40 CFR 60.7b).

Authority for Requirement: LCPH ATI 4459 / PTO 4516
 40 CFR 60.7(b)
 LCO 10.9(2)
 567 IAC 23.1(2)

Report Requirements:

The following information shall be submitted to this department:

- Submit excess emissions and monitoring systems performance report and/or summary report form (40 CFR 60.7(d) Figure 1) to this Department semiannually. All reports shall be postmarked by the 30th day following the end of each six-month period. Written reports of excess emissions shall include the following information (40 CFR 60.7(c)).
 1. The magnitude of excess emissions, any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.
 2. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.
 3. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.
 4. When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

Authority for Requirement: LCPH ATI 4459 / PTO 4516
 40 CFR 60.7

LCO 10.9(2)
567 IAC 23.1(2)

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 63.5
Discharge Style: Vertical, unobstructed
Stack Opening (inches, diameter): 60
Exhaust Temperature (°F): 1200
Exhaust Flowrate (acfm): NA
Authority for Requirement: LCPH ATI 4459 / PTO 4516

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 015

Associated Equipment

Associated Emission Unit ID Numbers: 015-1

Emission Unit vented through this Emission Point: 015-1

Emission Unit Description: Auxiliary Boiler #3

Raw Material/Fuel: Natural Gas, Biogas

Rated Capacity: 10.205 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): 20%

Authority for Requirement: LCPH ATI 6073 / PTO 6157
LCO 10.7

Pollutant: Particulate Matter

Emission Limit(s): 0.417 lb/MMBtu⁴, 0.1 gr/dscf

Authority for Requirement: LCO 10.8(2)"b"
LCO 10.9(1)"a"
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv, 39.4 tpy

Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)

⁴Limit for each boiler stack, EP015, EP016 and EP017.

Operational Limits & Requirements

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

NSPS and NESHAP Applicability:

- The New Source Performance Standards (NSPS), 40 CFR 60, Subpart A General Provisions and 40 CFR 60 Subpart Dc shall apply to this source pursuant to LCCO 10.9(2)"a"(64) and 567 IAC 23.1(2)"III".
- This emission unit is not National Emission Standards for Hazardous Air Pollutants (NESHAP) as the facility is not a major source of hazardous air pollutant (HAP) emissions at this time. There is an area source boiler MACT, 40 CFR Part 63, Subpart JJJJJJ, but the boiler is not subject to it since it is gas-fired.

Authority for Requirement: LCPH ATI 6073 PTO 6157

Operating Limits:

- The owner or operator shall meet the applicable requirements of 40 CFR 60 §§40c – 48c [NSPS Subpart Dc] to comply with LCCO 10.9.2(64).
- Fuel in this boiler shall be limited to only natural gas or biogas or a combination of the two.
- The sulfur scrubber shall maintain effective removal efficiency for H₂S at a level no less than 99% during operation. The content of H₂S in the biogas shall be determined upstream and downstream of the sulfur scrubber in order to calculate the scrubber efficiency. Appropriate grab samples shall be collected at a minimum of 3 days a week.
- On occurrences where the sulfur scrubber efficiency is determined to be less than 99%, daily efficiency determinations shall be made and emissions calculated until an efficiency of 99% is maintained, except on weekends and holidays. On weekends and holidays, efficiency determinations and emissions shall be calculated on the next business day and daily thereafter during business days until an efficiency of 99% is maintained.
- During periods that the sulfur scrubber and/or associated equipment is taken offline for maintenance and/or repair, all biogas shall be directed through a flare. The boiler shall not be allowed to burn unscrubbed biogas.

Authority for Requirement: LCPH ATI 6073 / PTO 6157

Operating Condition Monitoring and Recordkeeping:

- Recordkeeping and reporting for NSPS Subpart Dc shall be done in accordance with 40 CFR §60.48c.
- Calculate and record the H₂S removal efficiency of the sulfur scrubber for each sampling event required in the operating limit section.
- Maintain records of H₂S analyses obtained from biogas sampling required in the operating limit section.
- Calculate and record monthly SO₂ emissions from this emission unit on a 12-month rolling sum while burning biogas.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 6073 / PTO 6157

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 48.8

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 20

Exhaust Temperature (°F): 500

Exhaust Flowrate (acfm): 4,150

Authority for Requirement: LCPH ATI 6073 / PTO 6157

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the

emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>20 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 016

Associated Equipment

Associated Emission Unit ID Numbers: 016-1

Emission Unit vented through this Emission Point: 016-1

Emission Unit Description: Auxiliary Boiler #2

Raw Material/Fuel: Natural Gas, Biogas

Rated Capacity: 0.02 MMCF/hr, 18.844 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): 20%

Authority for Requirement: LCPH ATI 5050 / PTO 5149
LCO 10.7

Pollutant: PM-10

Emission Limit(s): 0.14 lb/hr

Authority for Requirement: LCPH ATI 5050 / PTO 5149

Pollutant: Particulate Matter

Emission Limit(s): 0.417 lb/MMBtu⁵

Authority for Requirement: LCO 10.8(2)"b"

⁵Limit for each boiler stack, EP015, EP016 and EP017, Auxiliary Boilers 1, 2 and 3.

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: LCPH ATI 5050 / PTO 5149
LCO 10.9"a"
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 39.4 tpy⁶

Authority for Requirement: LCPH ATI 5050 / PTO 5149

⁶Limit is a combined limit for EP016 and EP017, Auxiliary Boilers 1 and 2.

Authority for Requirement: LCPH ATI 5050/PTO 5149

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 500 ppmv
Authority for Requirement: LCO 10.12(2)
567 IAC 23.3(3)"e"

Operational Limits & Requirements

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

NSPS and NESHAP Applicability:

- The New Source Performance Standards (NSPS), 40 CFR 60, Subpart A General Provisions and 40 CFR 60 Subpart Dc shall apply to this source pursuant to LCCO 10.9(2)"a"(64) and 567 IAC 23.1(2)"III".
- This emission unit is not subject to National Emission Standards for Hazardous Air Pollutants (NESHAP) as the facility is not a major source of hazardous air pollutant (HAP) emissions at this time. There is an area source boiler NESHAP, 40 CFR Part 63, Subpart JJJJJ, but the boiler is not subject to it since it is gas-fired.

Authority for Requirement: LCPH ATI 5050/ PTO 5149

Operating Limits:

- Fuel in this boiler shall be limited to only natural gas or biogas or a combination of the two.
- This facility shall comply with the applicable requirements of 40 CFR §60.40c through §60.48c.
- The sulfur scrubber shall maintain effective removal efficiency for H₂S at a level no less than 99% during operation. The content of H₂S in the biogas shall be determined upstream and downstream of the sulfur scrubber in order to calculate the scrubber efficiency. Appropriate grab samples shall be collected at a minimum of 3 days a week.
- On occurrences where the sulfur scrubber efficiency is determined to be less than 99%, daily efficiency determinations shall be made and emissions calculated until an efficiency of 99% is maintained, except on weekends and holidays. On weekends and holidays, efficiency determinations and emissions shall be calculated on the next business day and daily thereafter during business days until an efficiency of 99% is maintained.
- During periods that the sulfur scrubber and/or associated equipment is taken offline for maintenance and/or repair, all biogas shall be directed through a flare. The boiler shall not be allowed to burn unscrubbed biogas.

Authority for Requirement: LCPH ATI 5050 / PTO 5149

Operating Condition Monitoring and Recordkeeping:

- Recordkeeping and reporting for NSPS Subpart Dc shall be done in accordance with 40 CFR §60.48c.
- Calculate and record the H₂S removal efficiency of the sulfur scrubber for each sampling event required in the operating limit section.
- Maintain records of H₂S analyses obtained from biogas sampling identified in the operating limits section.
- Calculate and record monthly SO₂ emissions for both Auxiliary Boilers (EP016 and EP017) on a 12-month rolling sum while burning biogas.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 5050 / PTO 5149

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 61.3

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 42

Exhaust Temperature (°F): 600

Exhaust Flowrate (acfm): 4,500

Authority for Requirement: LCPH ATI 5050 / PTO 5149

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

Monitoring Requirements

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

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>20 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an

opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 017

Associated Equipment

Associated Emission Unit ID Numbers: 017-1

Emission Unit vented through this Emission Point: 017-1

Emission Unit Description: Auxiliary Boiler #1

Raw Material/Fuel: Natural Gas, Biogas

Rated Capacity: 0.02 MMCF/hr, 18.844 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): 20%

Authority for Requirement: LCPH ATI 5051 / PTO 5148
LCO 10.7

Pollutant: PM-10

Emission Limit(s): 0.14 lb/hr

Authority for Requirement: LCPH ATI 5051 / PTO 5148

Pollutant: Particulate Matter

Emission Limit(s): 0.417 lb/MMBtu⁵

Authority for Requirement: LCO 10.8(2)"b"

⁵Limit for each boiler stack, EP015, EP016 and EP017, Auxiliary Boilers 1, 2, and 3.

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: LCPH ATI 5051 / PTO 5148
LCO 10.9"a"
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 39.4 tpy⁶

Authority for Requirement: LCPH ATI 5051 / PTO 5148

⁶Limit is a combined limit for EP016 and EP017, Auxiliary Boilers 1 and 2.

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: LCO 10.12(2)
567 IAC 23.3(3)"e"

Operational Limits & Requirements

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

NSPS and NESHAP Applicability:

- The New Source Performance Standards (NSPS), 40 CFR 60, Subpart A General Provisions and 40 CFR 60 Subpart Dc shall apply to this source pursuant to LCCO 10.9(2)"a"(64) and 567 IAC 23.1(2)"III".
- This emission unit is not subject to National Emission Standards for Hazardous Air Pollutants (NESHAP) is not a major source of hazardous air pollutant (HAP) emissions at this time. There is an area source boiler MACT, 40 CFR Part 63, Subpart JJJJJ, but the boiler is not subject to it since it is gas-fired.

Authority for Requirement: LCPH ATI 5051 / PTO 5148

Operating Limits:

- Fuel in this boiler shall be limited to only natural gas or biogas or a combination of the two.
- This facility shall comply with the applicable requirements of 40 CFR §60.40c through §60.48c.
- The sulfur scrubber shall maintain effective removal efficiency for H₂S at a level no less than 99% during operation. The content of H₂S in the biogas shall be determined upstream and downstream of the sulfur scrubber in order to calculate the scrubber efficiency. Appropriate grab samples shall be collected at a minimum of 3 days a week.
- On occurrences where the sulfur scrubber efficiency is determined to be less than 99%, daily efficiency determinations shall be made and emissions calculated until an efficiency of 99% is maintained, except on weekends and holidays. On weekends and holidays, efficiency determinations and emissions shall be calculated on the next business day and daily thereafter during business days until an efficiency of 99% is maintained.
- During periods that the sulfur scrubber and/or associated equipment is taken offline for maintenance and/or repair, all biogas shall be directed through a flare. The boiler shall not be allowed to burn unscrubbed biogas.

Authority for Requirement: LCPH ATI 5051 / PTO 5148

Operating Condition Monitoring and Recordkeeping:

- Recordkeeping and reporting for NSPS Subpart Dc shall be done in accordance with 40 CFR §60.48c.
- Calculate and record the H₂S removal efficiency of the sulfur scrubber for each sampling event required in the operating limit section.
- Maintain records of H₂S analyses obtained from biogas sampling identified in the operating limits section.
- Calculate and record monthly SO₂ emissions for both auxiliary boilers (EP016 and EP017) on a 12-month rolling sum while burning biogas.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 5051 / PTO 5148

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

- Stack Height (ft, from ground): 61.3
- Discharge Style: Vertical, unobstructed
- Stack Opening (inches, diameter): 42
- Exhaust Temperature (°F): 600
- Exhaust Flowrate (acfm): 4,500
- Authority for Requirement: LCPH ATI 5051 / PTO 5148

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

Monitoring Requirements

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

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>20 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 018

Associated Equipment

Associated Emission Unit ID Numbers: 019A, EUBLEND

Emissions Control Equipment ID Number: 018A1

Emissions Control Equipment Description: Packed Bed Wet Scrubber Number 1

Emission Unit vented through this Emission Point: 019A

Emission Unit Description: Solids Handling Area/Belt Filter Press Area, Blend Tanks

Raw Material/Fuel: Air

Rated Capacity: 0.96 MMCF/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): 20%

Authority for Requirement: LCPH ATI 5471 / PTO 5380
LCO 10.7

Pollutant: Hydrogen Sulfide (H₂S)

Emission Limit(s): 150 ppmv⁴

Authority for Requirement: LCPH ATI 5471 / PTO 5380

⁴Standard is a 12-month rolling average

Operational Limits & Requirements

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

Control Device:

A packed bed wet scrubber shall be used to control H₂S emissions. The control equipment shall be maintained properly and operated at all times while the air pollution source is in operation.

Authority for Requirement: LCPH ATI 5471 / PTO 5380

NSPS and NESHAP Applicability:

- The emission units are not subject to the New Source Performance Standards (NSPS) as they are not affected facilities under Subpart O.
- The emission units are not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) as the facility is not a major source of hazardous air pollutant (HAP) emissions at this time. In addition there is not an area source maximum available control technology (MACT) standard promulgated or proposed for this source category at this time.
Authority for Requirement: LCPH ATI 5471/ PTO 5380

Operating Limits:

- The scrubber shall be maintained per LCCO 10.14(2) – (Maintenance and Repair Requirements).
- Emission point is limited to 876 hours of operation per rolling 12-month period.

Authority for Requirement: LCPH ATI 5471 / PTO 5380

Operating Condition Monitoring and Recordkeeping:

- Record hours of usage for this emission point on a 12-month rolling total basis.
- Record all maintenance and repair completed on the control device.
- Record monthly average EP019 scrubber inlet H₂S concentration.
- Using the monthly average EP019 scrubber inlet H₂S concentration values, calculate the 12 month rolling average to demonstrate compliance with H₂S limit.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 5471 / PTO 5380

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 51

Discharge Style: Horizontal

Stack Opening (inches, diameter): 36"

Exhaust Temperature (°F): 40-150

Exhaust Flow rate (acfm): 16,000

Authority for Requirement: LCPH ATI 5471 / PTO 5380

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 019

Associated Equipment

Associated Emission Unit ID Numbers: 019-1

Emissions Control Equipment ID Number: 019-1

Emissions Control Equipment Description: Packed Tower Chemical Scrubber

Emission Unit vented through this Emission Point: 019-1

Emission Unit Description: Solids Handling Odorous Air

Raw Material/Fuel: Air

Rated Capacity: 2.7 MMCF/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): 20%

Authority for Requirement: LCPH ATI 5738 / PTO 5407
LCO 10.7

Pollutant: Hydrogen Sulfide (H₂S)

Emission Limit(s): 9.4 tpy

Authority for Requirement: LCPH ATI 5738 / PTO 5407

Operational Limits & Requirements

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

Control Device:

A packed tower chemical scrubber shall be used to control H₂S emissions. The control equipment shall be maintained properly and operated at all times while the air pollution source is in operation. As an alternative, the emission units may also be controlled by CE018A1 or CE018B2.

Authority for Requirement: LCPH ATI 5738 / PTO 5407

NSPS and NESHAP Applicability:

- The emission limits are not subject to the New Source Performance Standards (NSPS) as they are not affected facilities under Subpart O.
- The emission units are not subject to a National Emission Standards for Hazardous Air Pollutants (NESHAP) as the facility is not a major source of hazardous air pollutant HAP emissions at this time. In addition there is not an area source maximum available control technology (MACT) standard promulgated or proposed for this source category at this time.

Authority for Requirement: LCPH ATI 5738 / PTO 5407

Operating Limits:

- The scrubber shall be maintained per manufacturer's specifications.
- The pH of the scrubber shall be maintained above 8.0.
- The outlet H₂S concentration of the scrubber not to exceed 9 ppmv on a twelve month rolling average basis.

Authority for Requirement: LCPH ATI 5738 / PTO 5407

Operating Condition Monitoring and Recordkeeping:

- Record scrubber pH on a weekly basis.
- Record all maintenance and repair completed on the control device.
- Record scrubber H₂S outlet concentration once per week during operation.
- Calculate the average scrubber outlet H₂S concentration monthly based on the weekly scrubber H₂S concentration values, and then use the monthly values to calculate the 12 month rolling average to demonstrate compliance with the operating limit.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 5738 / PTO 5407

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 58

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 54"

Exhaust Temperature (°F): 40-150°F

Exhaust Flowrate (acfm): 45,000

Authority for Requirement: LCPH ATI 5738 / PTO 5407

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 020

Associated Equipment

Associated Emission Unit ID Numbers: 019B, EUDECANT
Emissions Control Equipment ID Number: 018B2
Emissions Control Equipment Description: Packed Bed Wet Scrubber Number 2

Emission Unit vented through this Emission Point: 019B
Emission Unit Description: Decant Tanks & Centrifuge Area
Raw Material/Fuel: Air
Rated Capacity: 0.96 MMCF/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): 20%
Authority for Requirement: LCPH ATI 5472 / PTO 5381
LCO 10.7

Pollutant: Hydrogen Sulfide (H₂S)
Emission Limit(s): 150 ppmv⁴
Authority for Requirement: LCPH ATI 5472 / PTO 5381
⁴Standard is a 12-month rolling average

Operational Limits & Requirements

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

Control Device:

A packed bed scrubber shall be used to control H₂S emissions. The control equipment shall be maintained properly and operated at all times while the air pollution source is in operation.
Authority for Requirement: LCPH ATI 5472 / PTO 5381

NSPS and NESHAP Applicability:

- The emission units are not subject to the New Source Performance Standards (NSPS) as they are not affected facilities under Subpart O.
- The emission units are not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) as the facility is not a major source of hazardous air pollutant (HAP) emissions at this time. In addition there is not an area source maximum available control technology (MACT) standard promulgated or proposed for this source category at this time.

Authority for Requirement: LCPH ATI 5472 / PTO 5381

Operating Limits:

- The scrubber shall be maintained per LCCO 10.14.2 (Maintenance and Repair Requirements).
- Emission point is limited to 876 hours of operation per rolling 12-month period.

Authority for Requirement: LCPH ATI 5472 / PTO 5381

Operating Condition Monitoring and Recordkeeping:

- Record hours of usage for this emission point on a 12-month rolling total basis.
- Record all maintenance and repair completed on the control device.
- Record monthly average EP019 scrubber inlet H₂S concentration.
- Using the monthly average EP019 scrubber inlet H₂S concentration values, calculate the 12 month rolling average to demonstrate compliance with H₂S limit.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 5472 / PTO 5381

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 51

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 30"

Exhaust Temperature (°F): 60-150

Exhaust Flowrate (acfm): 8,900

Authority for Requirement: LCPH ATI 5472 / PTO 5381

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 021

Associated Equipment

Associated Emission Unit ID Numbers: 021-1
Emissions Control Equipment ID Number: 021-1
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: 021-1
Emission Unit Description: Alkaline Stabilization Lime Silo #1
Raw Material/Fuel: Lime
Rated Capacity: 25.9 ton/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): 20%
Authority for Requirement: LCPH ATI 6035/ PTO 6103
LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: LCPH ATI 6035 / PTO 6103
LCO 10.9(1)"a"
567 IAC 23.3(2)"a"

Operational Limits & Requirements

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

Control Device:

A baghouse shall be used to control particulate emissions. The control equipment shall be maintained on this source in a good operating condition at all times.

Authority for Requirement: LCPH ATI 6035 / PTO 6103

Operating Condition Monitoring and Recordkeeping:

A log of operation shall be maintained for the operation of the above listed unit.

- The owner or operator shall monitor and record "no visible emissions" observations each time the silo is filled. An exceedance of "no visible emissions" will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- Records of all maintenance and repair completed on the control device

All records as required for this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 6035 / PTO 6103

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 46'

Discharge Style: Vertical, Unobstructed

Stack Opening (inches, diameter): 11" x 10", rectangular

Exhaust Temperature (°F): Ambient

Exhaust Flowrate (acfm): 880

Authority for Requirement: LCPH ATI 6035/ PTO 6103

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

Monitoring Requirements

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

Opacity Monitoring:

The facility shall check the opacity each time the silo is filled and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>20 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required?

Yes No

Facility Maintained Operation & Maintenance Plan Required?

Yes No

Compliance Assurance Monitoring (CAM) Plan Required?

Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 022

Associated Equipment

Associated Emission Unit ID Numbers: 022-1
Emissions Control Equipment ID Number: 022-1
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: 022-1
Emission Unit Description: Alkaline Stabilization Lime Silo #2
Raw Material/Fuel: Lime
Rated Capacity: 25.9 ton/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): 20%
Authority for Requirement: LCPH ATI 6036 / PTO 6104
LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: LCPH ATI 6036 / PTO 6104
LCO 10.9(1)"a"
567 IAC 23.3(2)"a"

Operational Limits & Requirements

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

Control Device:

A baghouse shall be used to control particulate emissions. The control equipment shall be maintained on this source in a good operating condition at all times.

Authority for Requirement: LCPH ATI 6036 / PTO 6104

Operating Condition Monitoring and Recordkeeping:

A log of operation shall be maintained for the operation of the above listed unit.

- The owner or operator shall monitor and record "no visible emissions" observations each time the silo is filled. An exceedance of "no visible emissions" will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- Records of all maintenance and repair completed on the control device

All records as required for this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 6036 / PTO 6104

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 46'

Discharge Style: Vertical, Unobstructed

Stack Opening (inches, diameter): 11" x 10", rectangular

Exhaust Temperature (°F): Ambient

Exhaust Flowrate (acfm): 880

Authority for Requirement: LCPH ATI 6036 / PTO 6104

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

Monitoring Requirements

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

Opacity Monitoring:

The facility shall check the opacity each time the silo is filled and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>20 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required?

Yes No

Facility Maintained Operation & Maintenance Plan Required?

Yes No

Compliance Assurance Monitoring (CAM) Plan Required?

Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 034

Associated Equipment

Associated Emission Unit ID Numbers: 034-1
Emissions Control Equipment ID Number: 034-1
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: 034-1
Emission Unit Description: CAS / NAS Lime Silo (North)
Raw Material/Fuel: Lime
Rated Capacity: 25 ton/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): 20%
Authority for Requirement: LCPH ATI # 1313 / PTO # 1040
LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: LCPH ATI # 1313 / PTO # 1040
LCO 10.9(1)"a"
567 IAC 23.3(2)"a"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 57
Discharge Style: Downward, Unobstructed
Stack Opening (inches, diameter): 6
Exhaust Temperature (°F): 68
Exhaust Flowrate (acfm): 1176
Authority for Requirement: LCPH ATI 1313 / PTO 1040

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

Monitoring Requirements

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

Opacity Monitoring:

The facility shall check the opacity each time the silo is filled and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>20 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 036

Associated Equipment

Associated Emission Unit ID Numbers: 036-1

Emission Unit vented through this Emission Point: 036-1
Emission Unit Description: Standby Generator (Main Lift)
Raw Material/Fuel: Diesel Fuel
Rated Capacity: 108.3 gallon/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): 20%
Authority for Requirement: LCPH ATI 1946 / PTO 1912
LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: LCPH ATI 1946 / PTO 1912
567 IAC 23.3(2)"a"
LCO 10.9(1)"a"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 0.5 wt percent sulfur, 15 ppm sulfur, 1.5 lb/MMBTU
Authority for Requirement: LCPH ATI 1946 / PTO 1912
LCO 10.12(1)"b"
LCO 10.12(1)"c"
40 CFR §80.510(b)

Operational Limits & Requirements

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

Operating Limits:

- This source shall be limited to 700 hours of operation per year calculated on a 12-month rolling total basis.
- Fuel use in this unit shall be either #1 or #2 grade diesel fuel only with a maximum concentration of 15 ppm sulfur by weight per 40 CFR §80.510(b).

Authority for Requirement: LCPH ATI 1946 / PTO 1912

Operating Condition Monitoring and Recordkeeping:

The following records shall be maintained:

- Total hours of engine operation per year calculated on a 12-month rolling total basis.
- The owner or operator shall obtain a fuel certification from the fuel supplier that states all diesel shipments will meet the specifications of 40 CFR §80.510(b) on an annual basis.

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 1946 / PTO 1912

NSPS and NESHAP Applicability:

This emission unit is not subject to the New Source Performance Standards (NSPS) as there are no subparts for this source category since construction commenced prior to the applicability date of NSPS Subpart III.

This equipment is subject to the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ] (See Appendix B).

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 16

Discharge Style: Vertical, Unobstructed

Stack Opening (inches, diameter): 14

Exhaust Temperature (°F): 904

Exhaust Flowrate (scfm): 5413

Authority for Requirement: LCPH ATI 1946 / PTO 1912

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 037

Associated Equipment

Associated Emission Unit ID Numbers: 037-1

Emission Unit vented through this Emission Point: 037-1
Emission Unit Description: Standby Generator (Solids Dewatering)
Raw Material/Fuel: Diesel Fuel
Rated Capacity: 108.3 gallons/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): 20%
Authority for Requirement: LCPH ATI 6037 / PTO 6113
LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: LCPH ATI 6037/ PTO 6113
LCO 10.9(1)"a"
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 15 ppmv sulfur
Authority for Requirement: LCPH ATI 6037 / PTO 6113
40 CFR §80.510(b)

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 0.5 wt. percent sulfur, 1.5 lb/MMBTU
Authority for Requirement: LCPH ATI 6037 / PTO 6113
LCO 10.12(1)"b"
LCO 10.12(1)"c"

Operational Limits & Requirements

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

NSPS and NESHAP Applicability:

This emission unit is not subject to the New Source Performance Standards (NSPS) as there are no subparts for this source category since construction commenced prior to the applicability date of NSPS Subpart III.

The National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines shall apply to this emission unit pursuant 40 CFR 63 Subpart ZZZZ. (See Appendix B)

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

Operating Limits:

- This source shall be limited to 700 hours of operation per year calculated on a 12-month rolling total basis.
- Fuel use in this shall be limited to #1 or #2 grade diesel fuel only with a maximum concentration of 15 ppm sulfur by weight per 40 CFR §80.510(b).

Authority for Requirement: LCPH ATI 6037 / PTO 6113

Operating Condition Monitoring and Recordkeeping:

The following records shall be maintained:

- Record the total hours of engine operation per year calculated on a 12-month rolling total basis.
- The owner or operator shall obtain a fuel certification from the fuel supplier that states all diesel shipments will meet the specifications of 40 CFR §80.510(b) on an annual basis.

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 6037/ PTO 6113

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 16.75

Discharge Style: Vertical, Unobstructed

Stack Opening (inches, diameter): 14

Exhaust Temperature (°F): 904

Exhaust Flowrate (scfm): 5413

Authority for Requirement: LCPH ATI 6037 / PTO 6113

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

Monitoring Requirements

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

- | | | |
|---|------------------------------|--|
| Agency Approved Operation & Maintenance Plan Required? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| Facility Maintained Operation & Maintenance Plan Required? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| Compliance Assurance Monitoring (CAM) Plan Required? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 040

Associated Equipment

Associated Emission Unit ID Numbers: 040-1

Emission Unit vented through this Emission Point: 040-1
Emission Unit Description: Standby Generator (#3N Final Lift)
Raw Material/Fuel: Diesel Fuel
Rated Capacity: 115.7 gallons/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): 20%

Authority for Requirement: LCPH ATI 2782 / PTO 2772
LCO 10.7

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: LCPH ATI 2782 / PTO 2772
LCO 10.9(1)"a"
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 0.5 wt. percent sulfur, 15 ppm sulfur, 1.5 lb/MMBTU

Authority for Requirement: LCPH ATI 2782 / PTO 2772
LCO 10.12(1)"b"
LCO 10.12(1)"c"
40 CFR §80.510(b)

Operational Limits & Requirements

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

NSPS and NESHAP Applicability:

This emission unit is not subject to the New Source Performance Standards (NSPS) as there are no subparts for this source category since construction commenced prior to the applicability date of NSPS Subpart III.

This equipment is subject to the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ]. (See Appendix B)

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

Operating Limits:

- This source shall be limited to 700 hours of operation per year calculated on a 12-month rolling total basis.
- Fuel use in this shall be limited to #1 or #2 grade diesel fuel only with a maximum concentration of 15 ppm sulfur by weight per 40 CFR §80.510(b).

Authority for Requirement: LCPH ATI 2782 / PTO 2772

Operating Condition Monitoring and Recordkeeping:

The following information shall be monitored and recorded:

- Total hours of engine operation per month on a 12-month rolling total basis.
- The owner or operator shall obtain a fuel certification from the fuel supplier that states all diesel shipments will meet the specifications of 40 CFR §80.510(b) on an annual basis.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 2782 / PTO 2772

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 20.25

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 16

Exhaust Temperature (°F): 961

Exhaust Flowrate (acfm): 14,310

Authority for Requirement: LCPH ATI 2782 / PTO 2772

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 041

Associated Equipment

Associated Emission Unit ID Numbers: 041-1

Emission Unit vented through this Emission Point: 041-1
Emission Unit Description: Standby Generator (#7S Final Lift)
Raw Material/Fuel: Diesel Fuel
Rated Capacity: 115.7 gallons/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): 20%
Authority for Requirement: LCPH ATI 2781 / PTO 2773
LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: LCPH ATI 2781 / PTO 2773
LCO 10.9(1)"a"
567 IAC 23.3(2)"a"(2)

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 0.5 wt. percent sulfur, 15 ppm sulfur, 1.5 lb/MMBTU
Authority for Requirement: LCPH ATI 2781 / PTO 2773
LCO 10.12(1)"b"
LCO 10.12(1)"c"
40 CFR §80.510(b)

Operational Limits & Requirements

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

NSPS and NESHAP Applicability:

This emission unit is not subject to the New Source Performance Standards (NSPS) as there are no subparts for this source category since construction commenced prior to the applicability date of NSPS Subpart III.

This equipment is subject to the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ]. (See Appendix B)
Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

Operating Limits:

- This source shall be limited to 700 hours of operation per year on a 12-month rolling basis.
- Fuel use in this unit shall be either #1 or #2 grade diesel fuel only with a maximum concentration of 15 ppm by weight per 40 CFR §80.510(b).

Authority for Requirement: LCPH ATI 2781 / PTO 2773

Operating Condition Monitoring and Recordkeeping:

The following information shall be monitored and recorded:

- Total hours of engine operation per month calculated on a 12-month rolling total basis.
- The owner or operator shall obtain a fuel certification from the fuel supplier that states all diesel shipments will meet the specifications of 40 CFR §80.510(b) on an annual basis.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 2781 / PTO 2773

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 20.25

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 16

Exhaust Temperature (°F): 961

Exhaust Flowrate (acfm): 14,310

Authority for Requirement: LCPH ATI 2781 / PTO 2773

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 051

Associated Equipment

Associated Emission Unit ID Numbers: 051-1

Emissions Control Equipment ID Number: 051-1

Emissions Control Equipment Description: Bio-Scrubber #1

Emission Unit vented through this Emission Point: 051-1

Emission Unit Description: Bio-Scrubber #1 (West Odor Control Unit)

Raw Material/Fuel: Air

Rated Capacity: 60,000 ACFM

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): 20%

Authority for Requirement: LCPH ATI 5129 / PTO 5150
LCO 10.7

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: LCPH ATI 5129 / PTO 5150
LCO 10.9(1)"a"
567 IAC 23.3(2)"a"

Pollutant: Hydrogen Sulfide

Emission Limit(s): 9.4 tpy

Authority for Requirement: LCPH ATI 5129 / PTO 5150

⁴Combined limit for EP051 and EP052 to remain synthetic minor.

Operational Limits & Requirements

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

Control Devices:

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

Authority for Requirement: LCPH ATI 5129 / PTO 5150

NSPS and NESHAP Applicability:

- This emission unit is not subject to the New Source Performance Standards (NSPS) as there are no subparts for this source category.
- This emission unit is not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) as the facility is not a major source of hazardous air pollutant (HAP) emissions at this time. In addition there is not an area source maximum available control technology (MACT) standard promulgated or proposed for this source category at this time.

Authority for Requirement: LCPH ATI 5129 / PTO 5150

Operating Limits:

- Establish a pH operating range for the wash water to optimize H₂S removal. Wash times and flush times will be adjusted when the pH falls outside of the established operating range.
- A bioscrubber wash cycle shall be performed at a minimum of once every 2 hours.
- Nozzles and associated spray patterns will be inspected monthly. Any necessary repairs/adjustments will be completed within five days of discovery.

Authority for Requirement: LCPH ATI 5129 / PTO 5150

Operating Condition Monitoring and Recordkeeping:

The following information shall be monitored and recorded:

- Monitor and record the bioscrubber wash water pH continuously.
- Record wash cycle times.
- Record the monthly inspections of nozzles and spray patterns.
- Document the date of any necessary repairs/adjustments to the spray nozzles.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 5129 / PTO 5150

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 32

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 60

Exhaust Temperature (°F): 70-90

Exhaust Flowrate (acfm): 60,000

Authority for Requirement: LCPH ATI 5129 / PTO 5150

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 052

Associated Equipment

Associated Emission Unit ID Numbers: 052-1

Emissions Control Equipment ID Number: 052-1

Emissions Control Equipment Description: Bio-Scrubber #2

Emission Unit vented through this Emission Point: 052-1

Emission Unit Description: Bio-Scrubber #2 (East Odor Control Unit)

Raw Material/Fuel: Air

Rated Capacity: 60,000 ACFM

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): 20%

Authority for Requirement: LCPH ATI 5130 / PTO 5151
LCO 10.7

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: LCPH ATI 5130 / PTO 5151
LCO 10.9(1)"a"
567 IAC 23.3(2)"a"

Pollutant: Hydrogen Sulfide

Emission Limit(s): 9.4 tpy

Authority for Requirement: LCPH ATI 5130 / PTO 5151

Operational Limits & Requirements

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

Control Devices:

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

Authority for Requirement: LCPH ATI 5130 / PTO 5151

NSPS and NESHAP Applicability:

- This emission unit is not subject to the New Source Performance Standards (NSPS) as there are no subparts for this source category.
 - This emission unit is not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) as the facility is not a major source of hazardous air pollutant (HAP) emissions at this time. In addition there is not an area source maximum available control technology (MACT) standard promulgated or proposed for this source category at this time.
- Authority for Requirement: LCPH ATI 5130/ PTO 5151

Operating Limits:

- Establish a pH operating range for the wash water to optimize H₂S removal. Wash times and flush times will be adjusted when the pH falls outside of the established operating range.
- A bioscrubber wash cycle shall be performed at a minimum of once every 2 hours.
- Nozzles and associated spray patterns will be inspected monthly. Any necessary repairs/adjustments will be completed within five days of discovery.

Authority for Requirement: LCPH ATI 5130 / PTO 5151

Operating Condition Monitoring and Recordkeeping:

The following information shall be monitored and recorded:

- Monitor and record the bioscrubber wash water pH continuously
- Record wash cycle times.
- Record the monthly inspections of nozzles and spray patterns
- Document the date of any necessary repairs/adjustments to the spray nozzles.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 5130 / PTO 5151

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 32

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 60

Exhaust Temperature (°F): 70-90

Exhaust Flowrate (acfm): 60,000

Authority for Requirement: LCPH ATI 5130 / PTO 5151

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 053

Associated Equipment

Associated Emission Unit ID Numbers: 053-1

Emissions Control Equipment ID Number: 053-1

Emissions Control Equipment Description: Pacques Thiopaq Sulfur Scrubber

Emission Unit vented through this Emission Point: 053-1

Emission Unit Description: Excess Biogas Flare (North)

Raw Material/Fuel: Methane

Rated Capacity: 0.07 MMCF/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): 20%

Authority for Requirement: LCPH ATI 5878 / PTO 6105
LCO 10.7

Pollutant: PM-10

Emission Limit(s): 0.384 lb/hr

Authority for Requirement: LCPH ATI 5878 / PTO 6105

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: LCPH ATI 5878 / PTO 6105
LCO 10.9(1)"a"
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: LCPH ATI 5878 / PTO 6105
LCO 10.12(2)
567 IAC 23.3(3)"e"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 4.69 lb/hr, 39.4⁴ tpy

Authority for Requirement: LCPH ATI 5878 / PTO 6105

⁴ Aggregated SO₂ emissions from EP013, EP053, EP054 and EP056 shall not exceed the 39.4 tons per 12-month rolling total limit from the burning of biogas fuel.

Pollutant: Nitrogen Oxide (NO_x)

Emission Limit(s): 5.058 lb/hr

Authority for Requirement: LCPH ATI 5878 / PTO 6105

Operational Limits & Requirements

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

Control Devices:

A sulfur scrubber has been installed upstream of the flare to remove 99% of the hydrogen sulfide (H₂S) content from the biogas and hence reduce SO₂ emissions during incineration. The sulfur scrubber shall be maintained in a good operating condition at all times. All appropriate probes, monitors, and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5878 / PTO 6105

NSPS and NESHAP Applicability:

- This emission unit is not subject to the New Source Performance Standards (NSPS) as there are no subparts for this source category.
- This emission unit is not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) as the facility is not a major source of hazardous air pollutant (HAP) emissions at this time. In addition there is not an area source maximum available control technology (MACT) standard promulgated or proposed for this source category at this time.

Authority for Requirement: LCPH ATI 5878 / PTO 6105

Operating Limits:

- The sulfur scrubber shall maintain effective removal efficiency for H₂S at a level no less than 99% during operation. The content of H₂S in the biogas shall be determined upstream and downstream of the sulfur scrubber in order to calculate the scrubber efficiency. Appropriate grab samples shall be collected at a minimum of 3 days a week.
- On occurrences where the sulfur scrubber efficiency is determined to be less than 99%, daily efficiency determination shall be made and emissions calculated until an efficiency of 99% is maintained, except on weekends and holidays. On weekends and holidays, efficiency determinations and emissions shall be calculated on the next business day and daily thereafter during business days until an efficiency of 99% is maintained.
- During periods that the sulfur scrubber and/or associated equipment is taken offline for maintenance and/or repair, all unscrubbed biogas shall be directed through the emergency biogas flare (EP056). The H₂S content of the biogas shall be determined on a daily basis and SO₂ emissions calculated. Due to employee safety considerations during bio-gas

sample collection, H₂S content of unscrubbed biogas shall be assumed to be monthly average un-scrubbed H₂S content. SO₂ emissions would be calculated daily based on the monthly average un-scrubbed H₂S content.

- Inlet scrubber H₂S concentration not to exceed 2% on a twelve-month rolling average.
- Fuel for this unit shall be limited to biogas and/or natural gas or liquid propane.

Authority for Requirement: LCPH ATI 5878 / PTO 6105

Operating Condition Monitoring and Recordkeeping:

The following information shall be monitored and recorded:

- Daily biogas flow rate to flare
- Total monthly biogas production.
- 12-month rolling total biogas production.
- H₂S analyses obtained from biogas sampling.
- H₂S content of inlet gas based on a twelve-month rolling average
- H₂S removal efficiency of the sulfur scrubber for each sampling event.
- Daily liquor feed rate through sulfur scrubber in gallons per minute.
- Continuous recording of pH of the sulfur scrubber liquor to regulate the NaOH make-up feed rates to the scrubber.
- Aggregated 12-month rolling total SO₂ emissions for EP013, EP053, EP054 and EP056 from the burning of biogas fuel.
- Records of all maintenance and/or repair completed on the control device

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 5878 / PTO 6105

Reporting Requirements:

The following information shall be submitted to this department on a semi-annual basis:

- Submit a semi-annual report on March 31st (for 7/1 – 12/31 of the previous calendar year) and September 30th (for 1/1 – 6/30 of the current year) summarizing the SO₂ emissions generated from the combustion of biogas through EP-013, EP-053, EP-054 and EP-056.

Authority for Requirement: LCPH ATI 5878/ PTO 6105

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 25

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): NA

Exhaust Temperature (°F): 1000+

Exhaust Flowrate (acfm): 1345

Authority for Requirement: LCPH ATI 5878 / PTO 6105

The temperature and flow rates are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the

emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 054

Associated Equipment

Associated Emission Unit ID Numbers: 054-1
Emissions Control Equipment ID Number: 053-1
Emissions Control Equipment Description: Pacques Thiopaq Sulfur Scrubber

Emission Unit vented through this Emission Point: 053-1
Emission Unit Description: Excess Biogas Flare (South)
Raw Material/Fuel: Methane
Rated Capacity: 0.07 MMCF/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): 20%
Authority for Requirement: LCPH ATI 5879 / PTO 6106

Pollutant: PM-10
Emission Limit(s): 0.384 lb/hr
Authority for Requirement: LCPH ATI 5879 / PTO 6106

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: LCPH ATI 5879/ PTO 6106
LCO 10.9(1)"a"
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 500 ppmv
Authority for Requirement: LCPH ATI 5879 / PTO 6106
LCO 10.12(2)
567 IAC 23.3(3)"e"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 4.690 lb/hr, 39.4⁴ TPY
Authority for Requirement: LCPH ATI 5879 / PTO 6106

⁴ Aggregated SO₂ emissions from EP013, EP053, EP054 and EP056 shall not exceed the 39.4 tons per 12-month rolling total limit from the burning of biogas fuel.

Pollutant: Nitrogen Oxide (NO_x)
Emission Limit(s): 5.058 lb/hr,
Authority for Requirement: LCPH ATI 5879 / PTO 6106

Operational Limits & Requirements

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

Control Device:

A sulfur scrubber has been installed upstream of the flare to remove 99% of the hydrogen sulfide (H₂S) content from the biogas and hence reduce SO₂ emissions during incineration. The sulfur scrubber shall be maintained in a good operating condition at all times. All appropriate probes, monitors, and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5879 / PTO 6106

NSPS and NESHAP Applicability:

- This emission unit is not subject to the New Source Performance Standards (NSPS) as there are no subparts for this source category.
- This emission unit is not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) as the facility is not a major source of hazardous air pollutant (HAP) emissions at this time. In addition there is not an area source maximum available control technology (MACT) standard promulgated or proposed for this source category at this time.

Authority for Requirement: LCPH ATI 5879 / PTO 6106

Operating Limits:

- The sulfur scrubber shall maintain effective removal efficiency for H₂S at a level no less than 99% at all times during operation. The content of H₂S in the bio-gas shall be determined upstream and downstream of the sulfur scrubber in order to calculate the scrubber efficiency. Appropriate grab samples shall be collected at a minimum of 3 days a week.
- On occurrences where the sulfur scrubber efficiency is determined to be less than 99%, daily efficiency determinations shall be made and emissions calculated until an efficiency of 99% is maintained, except on weekends and holidays. On weekends and holidays, efficiency determinations and emissions shall be calculated on the next business day and daily thereafter during business days until an efficiency of 99% is maintained.
- During periods that the sulfur scrubber and/or associated equipment is taken offline for maintenance and/or repair, all unscrubbed biogas shall be directed through the emergency biogas flare (EP056). The H₂S content of the bio-gas shall be determined on a daily basis and SO₂ emissions calculated. Due to employee safety considerations during bio-gas sample collection, H₂S content of unscrubbed biogas shall be assumed to be monthly average un-scrubbed H₂S content. SO₂ emissions would be calculated daily based on the monthly average un-scrubbed H₂S content.

- Inlet scrubber H₂S concentration not to exceed 2% on a twelve-month rolling average.
- Fuel for this unit shall be limited to biogas and/or natural gas or liquid propane.

Authority for Requirement: LCPH ATI 5879 / PTO 6106

Operating Condition Monitoring and Recordkeeping:

The following information shall be monitored and recorded:

- Daily biogas flow rate to flare
- Total monthly biogas production.
- 12-month rolling total biogas production.
- H₂S analyses obtained from biogas sampling.
- H₂S content of inlet gas based on a twelve-month rolling average.
- H₂S removal efficiency of the sulfur scrubber for each sampling event.
- Daily liquor feed rate through sulfur scrubber in gallons per minute.
- Continuous recording of pH of the sulfur scrubber liquor to regulate the NaOH make-up feed rates to the scrubber.
- Aggregated 12-month rolling total SO₂ emissions for EP013, EP053, EP054 and EP056 from the burning of biogas fuel.
- Record of all maintenance and/or repair completed on the control device

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 5879 / PTO 6106

Reporting Requirements:

The following information shall be submitted to this department on a semi-annual basis:

- Submit a semi-annual report on March 31st (for 7/1 – 12/31 of the previous calendar year) and September 30th (for 1/1 – 6/30 of the current year) summarizing the SO₂ emissions generated from the combustion of biogas through EP013, EP053, EP054 and EP056.

Authority for Requirement: LCPH ATI 5879 / PTO 6106

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 25

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): NA

Exhaust Temperature (°F): 1000+

Exhaust Flowrate (acfm): 1345

Authority for Requirement: LCPH ATI 5879 / PTO 6106

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 056

Associated Equipment

Associated Emission Unit ID Numbers: 056-1
Emissions Control Equipment ID Number: 056-1
Emissions Control Equipment Description: 056-1

Emission Unit vented through this Emission Point: 056-1
Emission Unit Description: Emergency Biogas Flare
Raw Material/Fuel: Methane
Rated Capacity: 0.07 MMCF/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): 20%
Authority for Requirement: LCPH ATI 5880 / PTO 6107

Pollutant: PM
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: LCPH ATI 5880 / PTO 6107
LCO 10.9(1)"a"
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 246.851 lb/hr, 39.4¹ TPY
Authority for Requirement: LCPH ATI 5880 / PTO 6107
¹ Aggregated Emissions from EP013, EP053, EP054 and EP056 shall not exceed the 39.4 tons per 12-month rolling total limit from the burning of biogas fuel.

Operational Limits & Requirements

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

NSPS and NESHAP Applicability:

- This emission unit is not subject to the New Source Performance Standards (NSPS) as there are no subparts for this source category.
- This source is not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) as the facility is not a major source of hazardous air pollutant (HAP) emissions at this time. In addition there is not an area source maximum available control technology (MACT) standard promulgated or proposed for this source category at this time.

Authority for Requirement: LCPH ATI 5880 / PTO 6107

Operating Limits:

- Fuel for this unit shall be limited to biogas and/or natural gas or liquid propane.
- This device shall not be operated for more than 152 hours per 12-month rolling period.

Authority for Requirement: LCPH ATI 5880 / PTO 6107

Operating Condition Monitoring and Recordkeeping:

The following information shall be monitored and recorded:

- Records of all maintenance and repair completed on the emergency flare.
- Daily biogas flow rate to the emergency flare when operated.
- Record the number of hours of flare operation each month and calculate the 12-month rolling total.
- Monthly SO₂ emissions for the emergency flare.
- Aggregated 12-month rolling total SO₂ emissions for EP013, EP053, EP054 and EP056 from the burning of biogas fuel.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 5880 / PTO 6107

Reporting Requirements:

The following information shall be submitted to this department on a semi-annual basis:

- Submit a semi-annual report on March 31st (for 7/1 – 12/31 of the previous calendar year) and September 30th (for 1/1 – 6/30 of the current year) summarizing the SO₂ emissions generated from the combustion of biogas through EP013, EP053, EP054 and EP056.

Authority for Requirement: LCPH ATI 5880 / PTO 6107

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 27

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 12

Exhaust Temperature (°F): 1000+

Exhaust Flowrate (acfm): 4167

Authority for Requirement: LCPH ATI 5880 / PTO 6107

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

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

G1. Duty to Comply

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

G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
 - a. Form 1.0 "Facility Identification";
 - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
 - c. Form 5.0 "Title V annual emissions summary/fee"; and
 - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
 - a. Form 1.0 "Facility Identification";
 - b. Form 5.0 "Title V annual emissions summary/fee";
 - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.

6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

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

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

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

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
 - a. The date, place and time of sampling or measurements
 - b. The date the analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses; and
 - f. The operating conditions as existing at the time of sampling or measurement.
 - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

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

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

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

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

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

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

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

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

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

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

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

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning

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

2. Excess Emissions Reporting

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

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

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

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

- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

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

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

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

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

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

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

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

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

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

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

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

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

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

- a. An administrative permit amendment is a permit revision that is required to do any of the following:
 - i. Correct typographical errors
 - ii. Identify a change in the name, address, or telephone number of any person

identified in the permit, or provides a similar minor administrative change at the source;

iii. Require more frequent monitoring or reporting by the permittee; or

iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

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

2. Minor Permit Modification.

a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:

i. Do not violate any applicable requirements

ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.

iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.

iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;

v. Are not modifications under any provision of Title I of the Act; and

vi. Are not required to be processed as significant modification.

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

i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.

ii. The permittee's suggested draft permit

iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and

iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee

need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113* The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.105(1)"a"(4)*

G19. Duty to Obtain Construction Permits

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *567 IAC 22.1(1)*

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

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

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

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

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.

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

G24. Permit Reopenings

- 1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
- 2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

- a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
 - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
 - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
- a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
- a. Such applicable requirements are included and are specifically identified in the permit;
 - or
 - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:

- a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
- d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. 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
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9545

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

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

G31. Prevention of Air Pollution Emergency Episodes

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

567 IAC 26.1(1)

G32. Contacts List

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

Chief of Air Permits
U.S. EPA Region 7
Air Permits and Compliance Branch
11201 Renner Blvd.
Lenexa, KS 66219
(913) 551-7020

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9500

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

Field Office 1

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

Field Office 2

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

Field Office 3

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

Field Office 4

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

Field Office 5

401 SW 7th Street, Suite I
Des Moines, IA 50309
(515) 725-0268

Field Office 6

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

Polk County Public Works Dept.

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

Linn County Public Health

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

Appendix A – Links to Federal Standards

<http://www.gpo.gov/fdsys/pkg/CFR-2012-title40-vol7/pdf/CFR-2012-title40-vol7-part60-subpartA.pdf>

<http://www.gpo.gov/fdsys/pkg/CFR-2012-title40-vol9/pdf/CFR-2012-title40-vol9-part61-subpartA.pdf>

<http://www.gpo.gov/fdsys/pkg/CFR-2012-title40-vol10/pdf/CFR-2012-title40-vol10-part63-subpartA.pdf>

<http://www.gpo.gov/fdsys/pkg/CFR-2012-title40-vol7/pdf/CFR-2012-title40-vol7-part60-subpartO.pdf>

<http://www.gpo.gov/fdsys/pkg/CFR-2012-title40-vol9/pdf/CFR-2012-title40-vol9-part61-subpartC.pdf>

<http://www.gpo.gov/fdsys/pkg/CFR-2012-title40-vol9/pdf/CFR-2012-title40-vol9-part61-subpartE.pdf>

<http://www.gpo.gov/fdsys/pkg/CFR-2012-title40-vol14/pdf/CFR-2012-title40-vol14-part63-subpartZZZZ.pdf>

Appendix B – 40 CFR 63 Subpart ZZZZ requirements

RICE NESHAP Summary of Requirements¹

For Non-Emergency Compression Ignition

Existing Stationary Engine >500 HP Located at Area Sources of HAP, constructed before June 12, 2006

NOTE: Only the tables relevant to this source category are bolded. To refer to the regulatory text, please go to [Subpart ZZZZ](#).

Your compliance date is May 3, 2013.

Emission Limitations, Management Practices and Other Requirements: 63.6603(a) through (e), Table 2d^{ab}

§ 63.6603 What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 2b to this subpart that apply to you.

(b) If you own or operate an existing stationary non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP that meets either paragraph (b)(1) or (2) of this section, you do not have to meet the numerical CO emission limitations specified in Table 2d of this subpart. Existing stationary non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP that meet either paragraph (b)(1) or (2) of this section must meet the management practices that are shown for stationary non-emergency CI RICE with a site rating of less than or equal to 300 HP in Table 2d of this subpart.

- (1) The area source is located in an area of Alaska that is not accessible by the Federal Aid Highway System (FAHS).
- (2) The stationary RICE is located at an area source that meets paragraphs (b)(2)(i), (ii), and (iii) of this section.

¹ Disclaimer: The content provided in this software tool is intended solely as assistance for potential reporters to aid in assessing requirements for compliance under the reciprocating internal combustion engines (RICE) National Emissions Standards for Hazardous Air Pollutants, 40 CFR Part 63 Subpart ZZZZ. Any variation between the rule and the information provided in this tool is unintentional, and, in the case of such variations, the requirements of the rule govern. Use of this tool does not constitute an assessment by the EPA of the applicability of the rule to any particular facility. In any particular case, the EPA will make its assessment by applying the law and regulations to the specific facts of the case.