

**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-M001
Expiration Date: December 31, 2018
Permit Renewal Application Deadline: June 30, 2018

EQ Number: 92-9044
Facility File Number: 57-01-077

Responsible Official

Name: Jeff Pomeranz
Title: City Manager, City of Cedar Rapids
Mailing Address: City Hall, 101 First Street SE, Cedar Rapids, IA 52401
Phone #: (319) 286-5080

Permit Contact Person for the Facility

Name: Michael Kuntz
Title: Utilities Environmental Manager
Mailing Address: 7525 Bertram Road SE, Cedar Rapids, IA 52403
Phone #: (319) 286-5282

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

6/29/15
Date

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Abbreviations

acfm	actual cubic feet per minute
ATI	authorization to install
CAS	Carbonaceous Activated Sludge
CFR	Code of Federal Regulation
CE	control equipment
CEM	continuous emission monitor
D	downward discharge
DOC	diesel oxidation catalyst
°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
H	horizontal
IAC	Iowa Administrative Code
IDNR	Iowa Department of Natural Resources
MBS	magnesium bisulfite
MVAC	motor vehicle air conditioner
NAICS	North American Industry Classification System
NAS	Nitrification Activated Sludge
NSPS	new source performance standard
OC	oxidation catalyst
ppmv	parts per million by volume
lb./hr	pounds per hour
lb./MMBtu	pounds per million British thermal units
PTO	permit to operate
SCC	Source Classification Codes
scfm	standard cubic feet per minute
SIC	Standard Industrial Classification
TPY	tons per year
USEPA	United States Environmental Protection Agency
V	vertical (without rain cap or with unobstructing rain cap)
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-M001

Facility Description: Sewage Treatment Facility (NAICS 221320; 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	6532 / 6411
	013-1B	Sludge Incinerator Biogas Combustion	
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
042	042-1	Standby Generator (Flood Wall Pump Station – North)	6590 / 6454
043	043-1	Standby Generator (Flood Wall Pump Station – South)	6591 / 6455
045	045-1	Magnesium Bisulfite Tank (North)	6533 / 6412
	045-2	Magnesium Bisulfite Tank (South)	
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 6265)
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-M001

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 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 - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not be limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, 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.
6. Reducing the speed of vehicles traveling over on-property surfaces as necessary to minimize the generation of airborne dusts.

Authority for Requirement: 567 IAC 23.3(2)"c"
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-M001

Emission Point ID Number: 001, 003

Associated Equipment.

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
001	001-1	Main Lift Carbon Scrubber – East Stack	Air	0.54 MMCF/hr	001-1	Scrubber
003	001-1	Main Lift Carbon Scrubber – West Stack	Air	0.54 MMCF/hr	003-1	Scrubber

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.

Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
001, 003	Opacity	20%	LCPH ATI 4532 / PTO 4753 LCPH ATI 4714 / PTO 4754 LCO 10.7
	H ₂ S	2.15 lb/hr; 9.4 tpy ⁽¹⁾	LCPH ATI 4532 / PTO 4753 LCPH ATI 4714 / PTO 4754

⁽¹⁾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; LCPH ATI 4714 / PTO 4754

Operating Limits:

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

A. Scrubber shall be maintained per manufacturer's specifications

Authority for Requirement: LCPH ATI 4532 / PTO 4753; LCPH ATI 4714 / PTO 4754

Operating Condition Monitoring and Record keeping:

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

A. Records of all maintenance and repair completed on the control device

Authority for Requirement: LCPH ATI 4532 / PTO 4753; LCPH ATI 4714 / PTO 4754

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
001	4532 / 4753	15.3	V	24	55-80	4500
003	4714 / 4754	15.3	V	24	55-80	4500

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.

EP	EU	EU Description	Raw Material/Fuel	Rated Capacity	CE ID	CE Description
013	013-1	Sludge Incinerator Solid Waste Disposal	Sludge, Natural Gas	30.15 MMBtu/hr	013-1	Venturi Scrubber System
	013-B	Sludge Incinerator Biogas Combustion	Sludge, Biogas	30.15 MMBtu/hr	053-1	Paques Thiopaq Biogas Sulfur Scrubber

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.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
013	Opacity	20%	LCPH ATI 6532 / PTO 6411 LCO 10.7 40 CFR 60.152(a)(2) Subpart O LCO 10.9(2)"a"(11) 567 IAC 23.1(2)"k"
	PM ₁₀	3.04 lb/hr	LCPH ATI 6532 / PTO 6411
	PM	1.30 lb/ton dry sludge input	LCPH ATI 6532 / PTO 6411 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"
	SO ₂	9.0 lb/hr; 39.4 tpy ⁽¹⁾	LCPH ATI 6532 / PTO 6411
	NO _x	7.4 lb/hr	
	Total Hydrocarbons	100 ppmv ⁽²⁾	LCPH ATI 6532 / PTO 6411 40 CFR 503, Subpart E LCO 10.9(2)"a"(11) 567 IAC 23.1(2)"k"
	CO	100 ppmv ⁽²⁾	LCPH ATI 6532 / PTO 6411 40 CFR 503.40(c) (1-3) Subpart E LCO 10.9(2)"a"(11) 567 IAC 23.1(2)"k"
	Mercury	3.2 kg/24 hours	LCPH ATI 6532 / PTO 6411 40 CFR 61.52(b) Subpart E LCO 10.9(3)"d" 567 IAC 23.1(3)"d"
	Beryllium	10 grams/24 hours	LCPH ATI 6532 / PTO 6411 40 CFR 61.32(a) Subpart C LCO 10.9(3)"b" 567 IAC 23.1(3)"b"

⁽¹⁾ Aggregate 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.

⁽²⁾ Monthly average concentration for total hydrocarbons corrected to 0 % moisture and 7 % Oxygen. The CO monitoring requirement may be used in lieu of the THC monitoring requirement to demonstrate compliance with the 100 ppmv total hydrocarbons limit.

Operational Limits & Requirements

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

NSPS and NESHAP Applicability:

- A. The New Source Performance Standards (NSPS) 40 CFR 60 [Subpart A – General Provisions and Subpart O – Standards of Performance for Sewage Treatment Plants] shall apply to this source pursuant to LCCO 10.9(2)[11] and 567 IAC 23.1(2)[k]. This equipment is subject to Emission Guidelines and Compliance Times for Existing Sludge Incineration Units [40 CFR Part 60 Subpart M].
- B. The National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 61 [Subpart A – General Provisions], [Subpart C – National Emission Standards for Beryllium], [Subpart E – National Emission Standards for Mercury] shall apply to this source pursuant to LCCO 10.9(3) [b and d] and 567 IAC 23.1(3) [b and d].

Additionally, this unit is subject to the following federal standard:

40 CFR 503, Subpart E- Incineration

Authority for Requirement: LCPH ATI 6532 / PTO 6411

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 6532 / PTO 6411

Operating Limits:

- A. 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.
- B. 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.
- C. 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.
- D. Fuel for this unit shall be limited to biogas or natural gas.
- E. 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).
- F. 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).
- G. 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).
- H. 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).
- I. 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).

- J. 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).
- K. The owner or operator shall comply with the requirements of 40 CFR 503 Subpart E by complying with the requirements of 40 CFR §503.40-47.

Authority for Requirement: LCPH ATI 6532 / PTO 6411

Operating Condition Monitoring and Recordkeeping:

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

The following information shall be monitored and recorded:

- A. Total monthly calculated biogas production based on a 12-month rolling sum.
- B. Daily biogas flow rate to the incinerator.
- C. Monthly and 12-month rolling sum of the SO₂ emissions from the combustion of biogas in the incinerator.
- D. Calculated removal efficiency of the sulfur scrubber.
- E. H₂S content of biogas prior to the sulfur scrubber.
- F. H₂S content of biogas after the sulfur scrubber.
- G. Continuous recording of carbon monoxide concentration or total hydrocarbons concentration in the exit gas of the incinerator.
- H. Continuous recording of oxygen concentration in exit gas of the incinerator pursuant to 40 CFR §60.153(b)(2).
- I. Continuous recording of pressure drop through the Venturi scrubbing system pursuant to 40 CFR §60.153(b)(1).
- J. Continuous recording of pH of the sulfur scrubber liquor to regulate the NaOH make-up feed rates to the scrubber.
- K. Daily water flow reading to the incinerator wet scrubber (gallons per minute).
- L. Daily liquid flow through the sulfur scrubber (gallons per minute).
- M. Record of all maintenance and repair completed to the Venturi scrubber.
- N. Record of all maintenance and repair completed to the sulfur scrubber.
- O. Initial notification and recordkeeping shall be performed in accordance with 40 CFR §60.7 to comply with LCCO 10.9.2(64).
- P. The owner or operator shall comply with the monitoring and recordkeeping requirements of 40 CFR 503 Subpart E pursuant to §503.47.
- Q. 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 40 CFR 60.154(b)(5).
- R. 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).
- S. 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).
- T. 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).

Authority for Requirement: LCPH ATI 6532 / PTO 6411

Continuous Emission Monitoring:

- A. An instrument that continuously measures and records the carbon monoxide concentration of the stack exit gas shall be installed, calibrated, operated and maintained according to the manufacturer's instructions. In lieu of the carbon monoxide monitor, an instrument that continuously measures and records the total hydrocarbons concentration in the sewage sludge incinerator stack exit gas shall be installed, calibrated, operated, and maintained for a sewage sludge incinerator.

Authority for Requirement: LCPH ATI 6532 / PTO 6411

Reporting Requirements:

- A. Submit excess emission reports as required in Linn County Ordinance, Chapter 10, Section 14.
- B. 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.
- C. 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).
- D. Submit an annual report as required in 40 CFR 503, Subpart E by February 19th for the previous calendar year.
- E. 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 6532 / PTO 6411

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
013	6532 / 6411	64.25	V	36	125	25318

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.

EP	EU	EU Description	Raw Material/Fuel	Rated Capacity	CE ID	CE Description
014	014-1	Multiple Hearth Incinerator Emergency By-Pass	Sludge/Fuel	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.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
014	Opacity	20%	LCPH ATI 6532 / PTO 6411 LCO 10.7 40 CFR 60.152(a)(2) Subpart O LCO 10.9(2)"a"(11) 567 IAC 23.1(2)"k"
	PM ₁₀	3.04 lb/hr	LCPH ATI 6532 / PTO 6411
	PM	1.30 lb/ton dry sludge input	LCPH ATI 6532 / PTO 6411 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)"i" 567 IAC 23.1(2)"k"
	SO ₂	9.0 lb/hr; 39.4 tpy ⁽¹⁾	LCPH ATI 6532 / PTO 6411
	NO _x	7.4 lb/hr	
	Total Hydrocarbons	100 ppmv ⁽²⁾	LCPH ATI 6532 / PTO 6411 40 CFR 503, Subpart E LCO 10.9(2)"a"(11) 567 IAC 23.1(2)"k"
	CO	100 ppmv ⁽²⁾	LCPH ATI 6532 / PTO 6411 40 CFR 503.40(c) (1-3) Subpart E LCO 10.9(2)"a"(11) 567 IAC 23.1(2)"k"
	Mercury	3.2 kg/24 hours	LCPH ATI 6532 / PTO 6411 40 CFR 61.52(b) Subpart E LCO 10.9(3)"d" 567 IAC 23.1(3)"d"
	Beryllium	10 grams/24 hours	LCPH ATI 6532 / PTO 6411 40 CFR 61.32(a) Subpart C LCO 10.9(3)"b" 567 IAC 23.1(3)"b"

⁽¹⁾ Aggregate 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.

⁽²⁾ Monthly average concentration for total hydrocarbons corrected to 0 % moisture and 7 % Oxygen. The CO monitoring requirement may be used in lieu of the THC monitoring requirement to demonstrate compliance with the 100 ppmv total hydrocarbons limit.

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.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
014	4459 / 4516	63.5	V	60	1200	NA

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.

EP	EU	EU Description	Fuel	Rated Capacity	CE ID	CE Description
015	015-1	Auxiliary Boiler #3	Natural Gas, Biogas	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.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
015	Opacity	20%	LCPH ATI 6073 / PTO 6157 LCO 10.7
	PM	0.1 gr/dscf	LCPH ATI 6073 / PTO 6157 LCO 10.9(1)"a" 567 IAC 23.3(2)"a"
		0.417 lb/MMBtu	LCPH ATI 6073 / PTO 6157 LCO 10.8(2)"b"
	SO ₂	500 ppmv	LCPH ATI 6073 / PTO 6157 567 IAC 23.3(3)"e" LCO 10.12(2)
		39.4 tpy	LCPH ATI 6073 / PTO 6157

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

Operational Limits & Requirements

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

NSPS and NESHAP Applicability:

- A. 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".
- B. 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:

- A. 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).
- B. Fuel in this boiler shall be limited to only natural gas or biogas or a combination of the two.
- C. 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.
- D. 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.

E. 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:

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.

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

Authority for Requirement: LCPH ATI 6073 / PTO 6157

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
015	6073 / 6157	48.8	V	20	500	4150

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, 017

Associated Equipment.

EP	EU	EU Description	Fuel	Rated Capacity	CE ID	CE Description
016	016-1	Auxiliary Boiler #2	Natural Gas, Biogas	0.02 MMCF/hr; 18.844 MMBtu/hr	--	--
017	017-1	Auxiliary Boiler #1	Natural Gas, Biogas	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.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
016, 017	Opacity	20%	LCPH ATI 5050 / PTO 5149 LCPH ATI 5051 / PTO 5148 LCO 10.7
	PM	0.1 gr/dscf	LCPH ATI 5050 / PTO 5149 LCPH ATI 5051 / PTO 5148 LCO 10.9(1)"a" 567 IAC 23.3(2)"a"
		0.417 lb/MMBtu ⁽¹⁾	LCPH ATI 5050 / PTO 5149 LCPH ATI 5051 / PTO 5148 LCO 10.8(2)"b"
	PM ₁₀	0.14 lb/hr	LCPH ATI 5050 / PTO 5149 LCPH ATI 5051 / PTO 5148
	SO ₂	500 ppmv	LCPH ATI 5050 / PTO 5149 LCPH ATI 5051 / PTO 5148 567 IAC 23.3(3)"e" LCO 10.12(2)
		39.4 tpy ⁽²⁾	LCPH ATI 5050 / PTO 5149 LCPH ATI 5051 / PTO 5148

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

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

Operational Limits & Requirements

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

NSPS and NESHAP Applicability:

- A. 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".
- B. 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 JJJJJJ, but the boiler is not subject to it since it is gas-fired.

Authority for Requirement: LCPH ATI 5050 / PTO 5149; LCPH ATI 5051 / PTO 5148

Operating Limits:

- A. Fuel in this boiler shall be limited to only natural gas or biogas or a combination of the two.
- B. This facility shall comply with the applicable requirements of 40 CFR §60.40c through §60.48c.
- C. 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.
- D. 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.
- E. 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; LCPH ATI 5051 / PTO 5148

Operating Condition Monitoring and Recordkeeping:

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

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

Authority for Requirement: LCPH ATI 5050 / PTO 5149; LCPH ATI 5051 / PTO 5148

Reporting Requirements:

- A. Submit notification of the date of construction, anticipated startup, and actual startup and include all required information listed under 40 CFR 60.48c.

Authority for Requirement: LCPH ATI 5050 / PTO 5149; LCPH ATI 5051 / PTO 5148

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
016	5050 / 5149	61.3	V	42	600	4500
017	5051 / 5148	61.3	V	42	600	4500

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.

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
018	019A	Solids Handling Area / Belt Filter Press Area	Air	0.96 MMCF/hr	018A1	Packed Bed Wet Scrubber #1
	EUBLEND	Blend Tanks				

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.

Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
018	Opacity	20%	LCPH ATI 5471 / PTO 5380 LCO 10.7
	H ₂ S	150 ppmv ⁽¹⁾	LCPH ATI 5471 / PTO 5380

⁽¹⁾Standard 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

Operating Limits:

A. The scrubber shall be maintained per LCCO 10.14(2) – (Maintenance and Repair Requirements).

B. 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:

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.

A. Record hours of usage for this emission point on a 12-month rolling total basis.

B. Record all maintenance and repair completed on the control device.

C. Record monthly average EP019 scrubber inlet H₂S concentration.

D. Using the monthly average EP019 scrubber inlet H₂S concentration values, calculate the 12 month rolling average to demonstrate compliance with H₂S limit.

Authority for Requirement: LCPH ATI 5471 / PTO 5380

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
018	5471 / 5380	51	H	36	40-150	16000

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.

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
019	019-1	Solids Handling Odorous Air	Air	2.7 MMCF/hr	019-1	Packed Tower Chemical Scrubber

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.

Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
019	Opacity	20%	LCPH ATI 5738 / PTO 5407 LCO 10.7
	H ₂ S	9.4 tpy ⁽¹⁾	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

Operating Limits:

- A. The scrubber shall be maintained per manufacturer's specifications.
- B. The pH of the scrubber shall be maintained above 8.0.
- C. 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:

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.

- A. Record scrubber pH on a weekly basis.
- B. Record all maintenance and repair completed on the control device.
- C. Record scrubber H₂S outlet concentration once per week during operation.
- D. 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.

Authority for Requirement: LCPH ATI 5738 / PTO 5407

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
019	5738 / 5407	58	V	54	40-150	45000

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.

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
020	019B	Centrifuge Area	Air	0.96 MMCF/hr	018B2	Packed Bed Scrubber Number 2
	EUDECANT	Decant Tanks				

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.

Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
020	Opacity	20%	LCPH ATI 5472 / PTO 5381 LCO 10.7
	H ₂ S	150 ppmv ⁽¹⁾	LCPH ATI 5472 / PTO 5381

⁽¹⁾ Standard 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 EP-019 is out of service and the associated emission units are in operation.

Authority for Requirement: LCPH ATI 5472 / PTO 5381

Operating Limits:

- A. The scrubber shall be maintained per LCCO 10.14.2 (Maintenance and Repair Requirements).
- B. 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:

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.

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

Authority for Requirement: LCPH ATI 5472 / PTO 5381

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
020	5472 / 5381	51	V	30	60-150	8900

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, 022, 034

Associated Equipment.

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
021	021-1	Alkaline Stabilization Lime Silo #1	Lime	25.9 tph	021-1	Baghouse
022	022-1	Alkaline Stabilization Lime Silo #2	Lime	25.9 tph	022-1	Baghouse
034	034-1	CAS / NAS Lime Silo (North)	Lime	25 tph	034-1	Baghouse

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.

Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
021, 022, 034	Opacity	20%	LCPH ATI 6035 / PTO 6103 LCPH ATI 6036 / PTO 6104 LCO 10.7
	PM	0.1 gr/dscf	LCPH ATI 6035 / PTO 6103 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 6035 / PTO 6103; LCPH ATI 6036 / PTO 6104

Operating Condition Monitoring and Recordkeeping:

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

A. 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.

B. Records of all maintenance and repair completed on the control device

Authority for Requirement: LCPH ATI 6035 / PTO 6103; LCPH ATI 6036 / PTO 6104

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
021	6035 / 6103	46	V	11 x 10	Ambient	880
022	6036 / 6104	46	V	11 x 10	Ambient	880

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: 036, 037, 040, 041

Associated Equipment.

EP	EU	EU Description	Fuel	Rated Capacity	CE ID	CE Description
036	036-1	Standby Generator (Main Lift)	Diesel Fuel	108.3 gallons/hr	036-1	DOC
037	037-1	Standby Generator (Solids Dewatering)	Diesel Fuel	108.3 gallons/hr	037-1	DOC
040	040-1	Standby Generator (#3N Final Lift)	Diesel Fuel	115.7 gallons/hr	038-1	DOC
041	041-1	Standby Generator (#7S Final Lift)	Diesel Fuel	115.7 gallons/hr	041-1	DOC

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.

Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
036, 037, 040, 041	Opacity	20%	LCPH ATI 1946 / PTO 1912 LCPH ATI 6037 / PTO 6113 LCPH ATI 2782 / PTO 2772 LCPH ATI 2781 / PTO 2773 LCO 10.7
	PM	0.1 gr/dscf	LCPH ATI 1946 / PTO 1912 LCPH ATI 6037 / PTO 6113 LCPH ATI 2782 / PTO 2772 LCPH ATI 2781 / PTO 2773 LCO 10.9(1)"a" 567 IAC 23.3(2)"a"
	SO ₂	1.5 lb/MMBtu/hr	LCPH ATI 1946 / PTO 1912 LCPH ATI 6037 / PTO 6113 LCPH ATI 2782 / PTO 2772 LCPH ATI 2781 / PTO 2773 LCCO 10.12(1)"b"
		15 ppm sulfur	LCPH ATI 1946 / PTO 1912 LCPH ATI 6037 / PTO 6113 LCPH ATI 2782 / PTO 2772 LCPH ATI 2781 / PTO 2773 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:

- A. This source shall be limited to 700 hours of operation per year calculated on a 12-month rolling total basis.
- B. 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; LCPH ATI 6037 / PTO 6113
LCPH ATI 2782 / PTO 2772; LCPH ATI 2781 / PTO 2773

Operating Condition Monitoring and Recordkeeping:

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

The following records shall be maintained:

- A. Total hours of engine operation per year calculated on a 12-month rolling total basis.
- B. 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.

Authority for Requirement: LCPH ATI 1946 / PTO 1912; LCPH ATI 6037 / PTO 6113
LCPH ATI 2782 / PTO 2772; LCPH ATI 2781 / PTO 2773

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 IIII.

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.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
036	1946 / 1912	16	V	14	904	5413
037	6037 / 6113	16.75	V	14	904	5413
040	2782 / 2772	20.25	V	16	961	14310
041	2781 / 2773	20.25	V	16	961	14310

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: 042, 043

Associated Equipment.

EP	EU	EU Description	Fuel	Rated Capacity	CE ID	CE Description
042	042-1	Standby Generator – North	Natural Gas	14,580 cf/hr	042-1	OC
043	043-1	Standby Generator – South	Natural Gas	14,580 cf/hr	043-1	OC

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.

Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
042, 043	Opacity	20%	LCPH ATI 6590 / PTO 6454 LCPH ATI 6591 / PTO 6455 LCO 10.7
	PM/PM ₁₀	0.15 lb/hr	LCPH ATI 6590 / PTO 6454 LCPH ATI 6591 / PTO 6455
	SO ₂	500 ppmv	LCPH ATI 6590 / PTO 6454 LCPH ATI 6591 / PTO 6455 LCO 10.12(2) 567 IAC 23.3(3)"e"
	NO _x	1.0 g/HP-hr or 82 ppmvd at 15% O ₂	LCPH ATI 6590 / PTO 6454 LCPH ATI 6591 / PTO 6455
	VOC	0.7 g/HP-hr or 60 ppmvd at 15% O ₂ ⁽¹⁾	LCO 10.9(2)(78)
	CO	2.0 g/HP-hr or 270 ppmvd at 15% O ₂	567 IAC 23.1(2)"yyy"

⁽¹⁾ For purposes of NESHAP Subpart JJJJ, when calculating emissions of VOC, emissions of formaldehyde should not be included.

Operational Limits & Requirements

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

Control Equipment:

An oxidation catalyst shall be installed to control CO 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 condition "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 6590 / PTO 6454; LCPH ATI 6591 / PTO 6455

NSPS and NESHAP Applicability:

A. The New Source Performance Standards (NSPS) *Subpart A, General Provisions and Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines* shall apply to this source pursuant to LCCO 10.9(2)"78" and 567 IAC 23.1(2)"zzz".

B. 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 source pursuant to LCCO 10.9(4)"zzzz" and 567 IAC 23.1(4)"cz". Pursuant to 40 CFR §63.6590(c)(1) this emission unit must meet the requirements of 40 CFR Part 63 subpart ZZZZ by meeting the requirements of 40 part 60 subpart JJJJ.

Authority for Requirement: LCPH ATI 6590 / PTO 6454; LCPH ATI 6591 / PTO 6455

Operating Limits:

- A. The owner or operator shall meet the applicable General Provisions requirements of 40 CFR 60 (Subpart A) as indicated in 40 CFR §60.4246 to comply with LCCO 10.9(2).
- B. The owner or operator shall meet the Emission Standards and Other Requirements for Owners and Operators requirements of 40 CFR §60.4233 through §60.4235 (NSPS Subpart JJJJ) to comply with LCCO 10.9(2)"78".
- C. The owner or operator shall comply with the Compliance Requirements for Owners and Operators of 40 CFR §60.4243 (NSPS Subpart JJJJ) to comply with LCCO 10.9(2)"78".
- D. The standby stationary reciprocating internal combustion engine (RICE) shall operate no more than 700 hours based on a rolling 12-month total basis.
- E. The standby stationary RICE shall be fired by natural gas only.
- F. The control equipment on this emission unit shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH ATI 6590 / PTO 6454; LCPH ATI 6591 / PTO 6455

Operating Condition Monitoring and Recordkeeping:

Unless specified by a federal regulation, 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. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. The owner or operator shall comply with the Notification, Reports, and Records for Owners and Operators of 40 CFR §60.4245.
- B. The owner or operator shall record the total hours of operation (in hours/month) for each month of operation for the first twelve (12) months of operation.
- C. The owner or operator shall record the cumulative hours of operation (in hours/year) on a rolling 12-month basis for each month of operation after the first twelve (12) months of operation.
- D. The owner or operator shall maintain a record of all maintenance completed on the control equipment.

Authority for Requirement: LCPH ATI 6590 / PTO 6454; LCPH ATI 6591 / PTO 6455

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
042	6590 / 6454	18	V	17	974	11846
043	6591 / 6455	18	V	17	974	11846

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 or 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 shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 045

Associated Equipment.

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
045	045-1	Magnesium Bisulfite Tank (North)	MBS	5,875 gallons	--	--
	045-2	Magnesium Bisulfite Tank (South)	MBS	5,875 gallons		

Applicable Requirements

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

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement
045	SO ₂	3.67 lb/hr	LCPH ATI 6533 / PTO 6412

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
045	6533 / 6412	28.75	D	4	Ambient	13

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: 051, 052

Associated Equipment.

EP	EU	EU Description	Fuel	Rated Capacity	CE ID	CE Description
051	051-1	Bio-Scrubber #1 (West Odor Control Unit)	Air	60,000 ACFM	051-1	Bio-Scrubber #1
052	052-1	Bio-Scrubber #2 (East Odor Control Unit)	Air	60,000 ACFM	052-1	Bio-Scrubber #2

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.

Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
051, 052	Opacity	20%	LCPH ATI 5129 / PTO 5150 LCPH ATI 5130 / PTO 5151 LCO 10.7
	PM	0.1 gr/dscf	LCPH ATI 5129 / PTO 5150 LCPH ATI 5130 / PTO 5151 LCO 10.9(1)"a" 567 IAC 23.3(2)"a"
	H ₂ S	9.4 tpy ⁽¹⁾	LCPH ATI 5129 / PTO 5150 LCPH ATI 5130 / PTO 5151

⁽¹⁾ Combined 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; LCPH ATI 5130 / PTO 5151

Operating Limits:

- A. 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.
- B. A bioscrubber wash cycle shall be performed at a minimum of once every 2 hours.
- C. 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; LCPH ATI 5130 / PTO 5151

Operating Condition Monitoring and Recordkeeping:

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

- A. Monitor and record the bioscrubber wash water pH continuously.
 - B. Record wash cycle times.
 - C. Record the monthly inspections of nozzles and spray patterns.
 - D. Document the date of any necessary repairs/adjustments to the spray nozzles.
- Authority for Requirement: LCPH ATI 5129 / PTO 5150; LCPH ATI 5130 / PTO 5151

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
051	5129 / 5150	32	V	60	70-90	60000
052	5130 / 5151	32	V	60	70-90	60000

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, 054

Associated Equipment.

EP	EU	EU Description	Fuel	Rated Capacity	CE ID	CE Description
053	053-1	Excess Biogas Flare (North)	Methane	0.07 MMCF/hr	053-1	Pacques Thiopaq Sulfur Scrubber
054	054-1	Excess Biogas Flare (South)	Methane	0.07 MMCF/hr	054-1	Pacques Thiopaq Sulfur Scrubber

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.

Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
053, 054	Opacity	20%	LCPH ATI 5878 / PTO 6105 LCPH ATI 5879 / PTO 6106 LCO 10.7
	PM	0.1 gr/dscf	LCPH ATI 5878 / PTO 6105 LCPH ATI 5879 / PTO 6106 LCO 10.9(1)"a" 567 IAC 23.3(2)"a"
	PM ₁₀	0.384 lb/hr	LCPH ATI 5878 / PTO 6105 LCPH ATI 5879 / PTO 6106
	SO ₂	500 ppmv	LCPH ATI 5878 / PTO 6105 LCPH ATI 5879 / PTO 6106 LCO 10.12(2) 567 IAC 23.3(3)"e"
			LCPH ATI 5878 / PTO 6105 LCPH ATI 5879 / PTO 6106
NO _x	5.058 lb/hr	LCPH ATI 5878 / PTO 6105 LCPH ATI 5879 / PTO 6106	

⁽¹⁾ 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.

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; LCPH ATI 5879 / PTO 6106

Operating Limits:

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

Authority for Requirement: LCPH ATI 5878 / PTO 6105; LCPH ATI 5879 / PTO 6106

Operating Condition Monitoring and Recordkeeping:

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

The following information shall be monitored and recorded:

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

Authority for Requirement: LCPH ATI 5878 / PTO 6105; LCPH ATI 5879 / PTO 6106

Reporting Requirements:

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

- A. 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; LCPH ATI 5879 / PTO 6106

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
053	5878 / 6105	25	V	NA	1000+	1345
054	5879 / 6106	25	V	NA	1000+	1345

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.

EP	EU	EU Description	Fuel	Rated Capacity	CE ID	CE Description
056	056-1	Emergency Biogas Flare	Methane	0.0506 MMCF/hr	056-1	Flare

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.

Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
056	Opacity	20%	LCPH ATI 5880 / PTO 6107 LCO 10.7
	PM	0.1 gr/dscf	LCPH ATI 5880 / PTO 6107 LCO 10.9(1)"a" 567 IAC 23.3(2)"a"
	SO ₂	246.851 lb/hr; 39.4 tpy ⁽¹⁾	LCPH ATI 5880 / PTO 6107

⁽¹⁾ 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.

Operational Limits & Requirements

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

Operating Limits:

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

Authority for Requirement: LCPH ATI 5880 / PTO 6107

Operating Condition Monitoring and Recordkeeping:

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

The following information shall be monitored and recorded:

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

Authority for Requirement: LCPH ATI 5880 / PTO 6107

Reporting Requirements:

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

- A. 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.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
056	5880 / 6107	27	V	12	1000+	4167

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 and Linn County Code of Ordinance (LCCO) Chapter 10, paragraph 10.4.

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 Linn County Public Health Air Quality Division. *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 Linn County Public Health Air Quality Division. *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" and LCCO 10.22*

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" and LCCO 10.18 and 10.19*

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) and LCCO 10.14(2)*

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) and LCCO 10.16(1)*

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

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

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance,

creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 725-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. **Excess Emissions.** Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.
2. **Excess Emissions Reporting**
 - a. **Initial Reporting of Excess Emissions.** An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:
 - i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
 - ii. The estimated quantity of the excess emission.
 - iii. The time and expected duration of the excess emission.
 - iv. The cause of the excess emission.
 - v. The steps being taken to remedy the excess emission.
 - vi. The steps being taken to limit the excess emission in the interim period.
 - b. **Written Reporting of Excess Emissions.** A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:
 - i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
 - ii. The estimated quantity of the excess emission.
 - iii. The time and duration of the excess emission.
 - iv. The cause of the excess emission.
 - v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.

- vi. The steps that were taken to limit the excess emission.
 - vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4) and LCCO 10.14*
3. Emergency Defense for Excess Emissions. For the purposes of this permit, an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:
- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - b. The facility at the time was being properly operated;
 - c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
 - d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

G15. Permit Deviation Reporting Requirements

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

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

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4) This notification must be made to Linn County Air Quality Division, in lieu of the Department, upon adoption of the NSPS or NESHAP into Chapter 10.*

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
 - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
 - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
 - d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));
 - e. The changes comply with all applicable requirements.

- f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change. *567 IAC 22.110(1)*
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.
 - a. An administrative permit amendment is a permit revision that does any of the following:
 - i. Correct typographical errors
 - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
 - iii. Require more frequent monitoring or reporting by the permittee; or
 - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
 - b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
 - c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.
2. Minor Title V Permit Modification.
 - a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
 - i. Do not violate any applicable requirement;
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in

order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;

- v. Are not modifications under any provision of Title I of the Act; and
 - vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
- i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
 - ii. The permittee's suggested draft permit;
 - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
 - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
- c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

Unless exempted in 567 IAC 22.1(2) or to meet the parameters established in 567 IAC 22.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, or conditional permit, or permit pursuant to rule 567 IAC 22.8, or permits required pursuant to rules 567 IAC 22.4, 567 IAC 22.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 22.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. 567 IAC 22.1(1) and LCCO 10.5

G20. Asbestos

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

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by LCCO 10.10.

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the

owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

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

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

G24. Permit Reopenings

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

- b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
 - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
 - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
 4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*
 5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
 - a. Such applicable requirements are included and are specifically identified in the permit; or
 - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
 - d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8) and LCCO 10.27*

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

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

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9545

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

567 IAC 25.1(7)"a", 567 IAC 25.1(9) and LCCO 10.17

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 local program shall be directed to the supervisor at the appropriate local program. Current address and phone number is:

Linn County Public Health

Air Quality Division

1240 26th Avenue Ct SW

Cedar Rapids, IA 52404

(319) 892-6000

V. APPENDIX A

Links to Federal Standards

40 CFR 60 Subpart A – General Provisions

<http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&rgn=div6&view=text&node=40:7.0.1.1.1.1>

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

<http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&rgn=div6&view=text&node=40:7.0.1.1.1.31>

A listing of all the promulgated NSPS rules, EPA Region 7 staff contact information (for questions pertaining to the rule), compliance assistance links and a link to each NSPS can be found at the link below: http://www.epa.gov/region7/air/nsps/nsps_standard_contacts.htm

40 CFR part 60 Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Engines

A link to the current final rule can be found at the link below:

<http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&rgn=div6&view=test&node=40:7.0.1.1.1.99>

40 CFR 61 Subpart A – General Provisions

<http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&rgn=div6&view=text&node=40:9.0.1.1.1.1>

40 CFR 61 Subpart C – National Emission Standard for Beryllium

<http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&rgn=div6&view=text&node=40:9.0.1.1.1.3>

40 CFR 61 Subpart E – National Emission Standard for Mercury

<http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&rgn=div6&view=text&node=40:9.0.1.1.1.5>

A listing of all the promulgated NSPS rules, EPA Region 7 staff contact information (for questions pertaining to the rule), compliance assistance links and a link to each NSPS can be found at the link below: http://www.epa.gov/region7/air/toxics/neshap_standard_contacts.htm

40 CFR 63 Subpart A – General Provisions

<http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&rgn=div6&view=text&node=40:10.0.1.1.1.1>

40 CFR 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

<http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&rgn=div6&view=text&node=40:14.0.1.1.1.1>

A listing of all the promulgated MACT rules, EPA Region 7 staff contact information (for questions pertaining to the rule), compliance assistance links and a link to each NSPS can be found at the link below: http://www.epa.gov/region7/air/toxics/mact_standard_contacts.htm

VI. 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.

(i) The only connection to the FAHS is through the Alaska Marine Highway System (AMHS), or the stationary RICE operation is within an isolated grid in Alaska that is not connected to the statewide electrical grid referred to as the Alaska Railbelt Grid.

(ii) At least 10 percent of the power generated by the stationary RICE on an annual basis is used for residential purposes.

(iii) The generating capacity of the area source is less than 12 megawatts, or the stationary RICE is used exclusively for backup power for renewable energy.

(c) If you own or operate an existing stationary non-emergency CI RICE with a site rating of more than 300 HP located on an offshore vessel that is an area source of HAP and is a nonroad vehicle that is an Outer Continental Shelf (OCS) source as defined in 40 CFR 55.2, you do not have to meet the numerical CO emission limitations specified in Table 2d of this subpart. You must meet all of the following management practices:

- (1) Change oil every 1,000 hours of operation or annually, whichever comes first. Sources have the option to utilize an oil analysis program as described in § 63.6625(i) in order to extend the specified oil change requirement.
- (2) Inspect and clean air filters every 750 hours of operation or annually, whichever comes first, and replace as necessary.
- (3) Inspect fuel filters and belts, if installed, every 750 hours of operation or annually, whichever comes first, and replace as necessary.
- (4) Inspect all flexible hoses every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.

(d) If you own or operate an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions that is certified to the Tier 1 or Tier 2 emission standards in Table 1 of 40 CFR 89.112 and that is subject to an enforceable state or local standard that requires the engine to be replaced no later than June 1, 2018, you may until January 1, 2015, or 12 years after the installation date of the engine (whichever is later), but not later than June 1, 2018, choose to comply with 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 instead of the applicable emission limitations in Table 2d, operating limitations in Table 2b, and crankcase ventilation system requirements in § 3.6625(g). You must comply with the emission limitations in Table 2d and operating limitations in Table 2b that apply for non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions by January 1, 2015, or 12 years after the installation date of the engine (whichever is later), but not later than June 1, 2018. You must also comply with the crankcase ventilation system requirements in § 63.6625(g) by January 1, 2015, or 12 years after the installation date of the engine (whichever is later), but not later than June 1, 2018.

(e) If you own or operate an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions that is certified to the Tier 3 (Tier 2 for engines above 560 kilowatt (kW)) emission standards in Table 1 of 40 CFR 89.112, you may comply with the requirements under this part by meeting the requirements for Tier 3 engines (Tier 2 for engines above 560 kW) in 40 CFR part 60 subpart IIII instead of the emission limitations and other requirements that would otherwise apply under this part for existing nonemergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions.

Footnotes to Table 2d:

^aNote that engines that meet the conditions in 63.6603(b)(1) or (b)(2) must meet management practices for non-emergency CI engines <300 HP in Table 2d.

^bNote that an engine located on an offshore vessel and is a nonroad vehicle that is an Outer Continental Shelf (OCS) is subject to management practices specified at 63.6603(c).

Operating Limitations: 63.6603 (see Emissions Limitations above), Table 2b

Fuel Requirements: For engines greater than 300 HP with displacement less than 30 l/cyl: 63.6604

§ 63.6604 What fuel requirements must I meet if I own or operate a stationary CI RICE?

(a) If you own or operate an existing non-emergency, non-black start CI stationary RICE with a site rating of more than 300 brake HP with a displacement of less than 30 liters per cylinder that uses diesel fuel, you must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel.

(d) Existing CI stationary RICE located in Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, at area sources in areas of Alaska that meet either § 63.6603(b)(1) or § 63.6603(b)(2), or are on offshore vessels that meet § 63.6603(c) are exempt from the requirements of this section.

Performance Tests: 63.6612, 63.6615, 63.6620, Table 3, Table 4, Table 5

§ 63.6612 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions?

If you own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions you are subject to the requirements of this section.

(a) You must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions in §63.7(a)(2).

(b) An owner or operator is not required to conduct an initial performance test on a unit for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (b)(1) through (4) of this section.

(1) The test must have been conducted using the same methods specified in this subpart, and these methods must have been followed correctly.

(2) The test must not be older than 2 years.

(3) The test must be reviewed and accepted by the Administrator.

(4) Either no process or equipment changes must have been made since the test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes.

§ 63.6615 When must I conduct subsequent performance tests?

If you must comply with the emission limitations and operating limitations, you must conduct subsequent performance tests as specified in Table 3 of this subpart.

§ 63.6620 What performance tests and other procedures must I use?

(a) You must conduct each performance test in Tables 3 and 4 of this subpart that applies to you.

(b) Each performance test must be conducted according to the requirements that this subpart specifies in Table 4 to this subpart. If you own or operate a non-operational stationary RICE that is subject to performance testing, you do not need to start up the engine solely to conduct the performance test. Owners and operators of a non-operational engine can conduct the performance test when the engine is started up again.

(c) [Reserved]

(d) You must conduct three separate test runs for each performance test required in this section, as specified in § 63.7(e)(3). Each test run must last at least 1 hour, unless otherwise specified in this subpart.

(e)(1) You must use Equation 1 of this section to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} \times 100 = R \quad (\text{Eq. 1})$$

Where:

- C_i = concentration of carbon monoxide (CO), total hydrocarbons (THC), or formaldehyde at the control device inlet,
- C_o = concentration of CO, THC, or formaldehyde at the control device outlet, and
- R = percent reduction of CO, THC, or formaldehyde emissions.

(2) You must normalize the CO, THC, or formaldehyde concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO₂). If pollutant concentrations are to be corrected to 15 percent oxygen and CO₂ concentration is measured in lieu of oxygen concentration measurement, a CO₂ correction factor is needed. Calculate the CO₂ correction factor as described in paragraphs (e)(2)(i) through (iii) of this section.

(i) Calculate the fuel-specific F_o value for the fuel burned during the test using values obtained from Method 19, Section 5.2, and the following equation:

$$F_o = \frac{0.209 F_d}{F_c} \quad (\text{Eq. 2})$$

Where:

- F_o = Fuel factor based on the ratio of oxygen volume to the ultimate CO₂ volume produced by the fuel at zero percent excess air.
- 0.209 = Fraction of air that is oxygen, percent/100.
- F_d = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm³/J (dscf/106 Btu).
- F_c = Ratio of the volume of CO₂ produced to the gross calorific value of the fuel from Method 19, dsm³/J (dscf/106 Btu)

(ii) Calculate the CO₂ correction factor for correcting measurement data to 15 percent O₂, as follows:

$$X_{CO_2} = \frac{5.9}{F_o} \quad (\text{Eq. 3})$$

Where:

- X_{CO_2} = CO₂ correction factor, percent.
- 5.9 = 20.9 percent O₂—15 percent O₂, the defined O₂ correction value, percent.

(iii) Calculate the CO, THC, and formaldehyde gas concentrations adjusted to 15 percent O₂ using CO₂ as follows:

$$C_{adj} = C_d \frac{X_{CO_2}}{\%CO_2} \quad (\text{Eq. 4})$$

Where:

C_{adj} = Calculated concentration of CO, THC, or formaldehyde adjusted to 15 percent O₂.

C_d = Measured concentration of CO, THC, or formaldehyde, uncorrected.

XCO₂ = CO₂ correction factor, percent.

%CO₂ = Measured CO₂ concentration measured, dry basis, percent.

(f) If you comply with the emission limitation to reduce CO and you are not using an oxidation catalyst, if you comply with the emission limitation to reduce formaldehyde and you are not using NSCR, or if you comply with the emission limitation to limit the concentration of formaldehyde in the stationary RICE exhaust and you are not using an oxidation catalyst or NSCR, you must petition the Administrator for operating limitations to be established during the initial performance test and continuously monitored thereafter; or for approval of no operating limitations. You must not conduct the initial performance test until after the petition has been approved by the Administrator.

(g) If you petition the Administrator for approval of operating limitations, your petition must include the information described in paragraphs (g)(1) through (5) of this section.

(1) Identification of the specific parameters you propose to use as operating limitations;

(2) A discussion of the relationship between these parameters and HAP emissions, identifying how HAP emissions change with changes in these parameters, and how limitations on these parameters will serve to limit HAP emissions;

(3) A discussion of how you will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;

(4) A discussion identifying the methods you will use to measure and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and

(5) A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters.

(h) If you petition the Administrator for approval of no operating limitations, your petition must include the information described in paragraphs (h)(1) through (7) of this section.

(1) Identification of the parameters associated with operation of the stationary RICE and any emission control device which could change intentionally (*e.g.*, operator adjustment, automatic controller adjustment, etc.) or unintentionally (*e.g.*, wear and tear, error, etc.) on a routine basis or over time;

(2) A discussion of the relationship, if any, between changes in the parameters and changes in HAP emissions;

(3) For the parameters which could change in such a way as to increase HAP emissions, a discussion of whether establishing limitations on the parameters would serve to limit HAP emissions;

(4) For the parameters which could change in such a way as to increase HAP emissions, a discussion of how you could establish upper and/or lower values for the parameters which would establish limits on the parameters in operating limitations;

(5) For the parameters, a discussion identifying the methods you could use to measure them and the instruments you could use to monitor them, as well as the relative accuracy and precision of the methods and instruments;

(6) For the parameters, a discussion identifying the frequency and methods for recalibrating the instruments you could use to monitor them; and

(7) A discussion of why, from your point of view, it is infeasible or unreasonable to adopt the parameters as operating limitations.

(i) The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accuracy in percentage of true value must be provided.

Monitoring, Installation, Collection, Operation and Maintenance Requirements:

63.6625(a), (b), (g), (h)

§ 63.6625 What are my monitoring, installation, collection, operation, and maintenance requirements?

(a) If you elect to install a CEMS as specified in Table 5 of this subpart, you must install, operate, and maintain a CEMS to monitor CO and either O₂ or CO₂ according to the requirements in paragraphs (a)(1) through (4) of this section. If you are meeting a requirement to reduce CO emissions, the CEMS must be installed at both the inlet and outlet of the control device. If you are meeting a requirement to limit the concentration of CO, the CEMS must be installed at the outlet of the control device.

(1) Each CEMS must be installed, operated, and maintained according to the applicable performance specifications of 40 CFR part 60, appendix B.

(2) You must conduct an initial performance evaluation and an annual relative accuracy test audit (RATA) of each CEMS according to the requirements in § 63.8 and according to the applicable performance specifications of 40 CFR part 60, appendix B as well as daily and periodic data quality checks in accordance with 40 CFR part 60, appendix F, procedure 1.

(3) As specified in § 63.8(c)(4)(ii), each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. You must have at least two data points, with each representing a different 15-minute period, to have a valid hour of data.

(4) The CEMS data must be reduced as specified in § 63.8(g)(2) and recorded in parts per million or parts per billion (as appropriate for the applicable limitation) at 15 percent oxygen or the equivalent CO₂ concentration.

(b) If you are required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of this subpart, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (b)(1) through (6) of this section. For an affected source that is complying with the emission limitations and operating limitations on March 9, 2011, the requirements in paragraph (b) of this section are applicable September 6, 2011.

(1) You must prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in paragraphs (b)(1)(i) through (v) of this section and in § 63.8(d). As specified in § 63.8(f)(4), you may request approval of monitoring system quality assurance and quality control procedures alternative to those specified in paragraphs (b)(1) through (5) of this section in your site-specific monitoring plan.

(i) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;

(ii) Sampling interface (*e.g.*, thermocouple) location such that the monitoring system will provide representative measurements;

(iii) Equipment performance evaluations, system accuracy audits, or other audit procedures;

(iv) Ongoing operation and maintenance procedures in accordance with provisions in § 63.8(c)(1)(ii) and (c)(3); and

(v) Ongoing reporting and recordkeeping procedures in accordance with provisions in § 63.10(c), (e)(1), and (e)(2)(i).

(2) You must install, operate, and maintain each CPMS in continuous operation according to the procedures in your site-specific monitoring plan.

(3) The CPMS must collect data at least once every 15 minutes (see also § 63.6635).

(4) For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger.

(5) You must conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually.

(6) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

(g) If you own or operate an existing non-emergency, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system, you must comply with either paragraph (g)(1) or paragraph (2) of this section. Owners and operators must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements. Existing CI engines located at area sources in areas of Alaska that meet either § 63.6603(b)(1) or § 63.6603(b)(2) do not have to meet the requirements of this paragraph (g). Existing CI engines located on offshore vessels that meet § 63.6603(c) do not have to meet the requirements of this paragraph (g).

(1) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or

(2) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals.

(h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

Initial Compliance: § 63.6630, Table 5

§ 63.6630 How do I demonstrate initial compliance with the emission limitations, operating limitations, and other requirements?

(a) You must demonstrate initial compliance with each emission and operating limitation that applies to you according to Table 5 of this subpart.

(b) During the initial performance test, you must establish each operating limitation in Tables 1b and 2b of this subpart that applies to you.

(c) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.6645.

Continuous Compliance: 63.6605, 63.6635, 63.6640

§ 63.6605 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.

(b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

§ 63.6635 How do I monitor and collect data to demonstrate continuous compliance?

(a) If you must comply with emission and operating limitations, you must monitor and collect data according to this section.

(b) Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must monitor continuously at all times that the stationary RICE is operating.

(c) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must, however, use all the valid data collected during all other periods.

§ 63.6640 How do I demonstrate continuous compliance with the emission limitations and operating limitations?

(a) You must demonstrate continuous compliance with each emission limitation and operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart.

(b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE.

(d) For new, reconstructed, and rebuilt stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations. Rebuilt stationary RICE means a stationary RICE that has been rebuilt as that term is defined in 40 CFR 94.11(a).

(e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE.

Notification Requirements: § 63.6645

§ 63.6645 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) (see General Provisions below) that apply to you by the dates specified if you own or operate any of the following:

(2) An existing stationary RICE located at an area source of HAP emissions.

(g) If you are required to conduct a performance test, you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in §63.7(b)(1).

(h) If you are required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration required in Table 5 to this subpart that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th day following the completion of the initial compliance demonstration.

(2) For each initial compliance demonstration required in Table 5 to this subpart that includes a performance test conducted according to the requirements in Table 3 to this subpart, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to §63.10(d)(2).

(i) If you own or operate an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions that is certified to the Tier 1 or Tier 2 emission standards in Table 1 of 40 CFR 89.112 and subject to an enforceable state or local standard requiring engine replacement and you intend to meet management practices rather than emission limits, as specified in § 63.6603(d), you must submit a notification by March 3, 2013, stating that you intend to use the provision in § 63.6603(d) and identifying the state or local regulation that the engine is subject to.

Recordkeeping Requirements: § 63.6655, except (c), (e) and (f)

§ 63.6655 What records must I keep?

(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).

(2) Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment.

(3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(b) For each CEMS or CPMS, you must keep the records listed in paragraphs (b)(1) through (3) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Previous (*i.e.*, superseded) versions of the performance evaluation plan as required in §63.8(d)(3).

(3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in §63.8(f)(6)(i), if applicable.

(d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.

Reporting Requirements: 63.6650, except (g)

§ 63.6650 What reports must I submit and when?

(a) You must submit each report in Table 7 of this subpart that applies to you.

(b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (b)(9) of this section.

(1) For semiannual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.6595.

(2) For semiannual Compliance reports, the first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.6595.

(3) For semiannual Compliance reports, each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) For semiannual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(5) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (b)(4) of this section.

(6) For annual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on December 31.

(7) For annual Compliance reports, the first Compliance report must be postmarked or delivered no later than January 31 following the end of the first calendar year after the compliance date that is specified for your affected source in §63.6595.

(8) For annual Compliance reports, each subsequent Compliance report must cover the annual reporting period from January 1 through December 31.

(9) For annual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than January 31.

(c) The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §63.6605(b), including actions taken to correct a malfunction.

(5) If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.

(6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.

(d) For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.

(1) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.

(2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

(e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in paragraphs (c)(1) through (4) and (e)(1) through (12) of this section.

- (1) The date and time that each malfunction started and stopped.
 - (2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.
 - (3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).
 - (4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
 - (5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.
 - (6) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.
 - (7) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.
 - (8) An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE.
 - (9) A brief description of the stationary RICE.
 - (10) A brief description of the CMS.
 - (11) The date of the latest CMS certification or audit.
 - (12) A description of any changes in CMS, processes, or controls since the last reporting period.
- (f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.

General Provisions (40 CFR part 63) -see Table 8: Yes.