

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

**Name of Permitted Facility: Southwest Iowa Renewable Energy
LLC**

Facility Location: 10868 189th Street, Council Bluffs, IA 51503

Air Quality Operating Permit Number: 14-TV-014R1

Expiration Date 10/28/2024

Permit Renewal Application Deadline: 4/28/2024

EIQ Number: 92-6062

Facility File Number: 78-01-110

Responsible Official

Name: Mr. Mike Jerke

Title: President/CEO

Mailing Address: 10868 189th St, Council Bluffs, IA 51503

Phone #: 712-366-0392

Permit Contact Person for the Facility

Name: Ms. Brett Schulte

Title: Lab/Environmental Compliance Manager

Mailing Address: 10868 189th Street, Council Bluffs, IA 51503

Phone #: 712-352-5040

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

Date

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Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulations
CE	control equipment
CEM.....	continuous emissions monitor
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP	emission point
EU	emission unit
gr./dscf	grains per dry standard cubic foot
kJ/Wh.....	kilojoules per watt hour
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
NSPS.....	new source performance standard
NESHAP	National Emission Standards for Hazardous Air Pollutants
ppmv	parts per million by volume
lb./hr	pounds per hour
lb./MMBtu	pounds per million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC	Standard Industrial Classification
TPY	tons per year
USEPA.....	United States Environmental Protection Agency

Pollutants

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

I. Facility Description and Equipment List

Facility Name: Southwest Iowa Renewable Energy LLC

Permit Number: 14-TV-014R1

Facility Description: Fuel Ethanol Manufacturing (SIC 2869)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP-S10	EU-S10	DDGS Dryers 1 thru 6, Distillation	06-A-571-P7
EP-S12A	EU-S12A	Boiler #1	08-A-476-P3
EP-S12B	EU-S12B	Boiler #2	08-A-477-P3
EP-S20	EU-20	Grain Unloading	06-A-575-P3
	EU-20B		
EP-22	EU-22	Product Loadout	06-A-581-P3
EP-S30-1	EU-S30-1	Hammermill	17-A-002
EP-S30-2	EU-S30-2	Hammermill	17-A-003
EP-S30-3	EU-S30-3	Hammermill	17-A-004
EP-S30-4	EU-S30-4	Hammermill	17-A-005
EP-S40	EU-40	Fermenters/Beer Well	06-A-577-P5
EP-S70	EU-70	DDGS Cooler	06-A-578-P2
EP-F80	EU-80	Cooling Tower 4 Cells	06-A-584P-S1
EP-F81	EU-81	Cooling Tower #2 (2 cells)	17-A-006
EP-S90	EU-90	DDGS Loadout	19-A-173-P2
EP-EMERG	EU-EMERG	Emergency Fire Pump Generator	06-A-582-P1
EP-F60	EU-F60	VOC Emissions from Equipment Leaks	06-A-583-P2
EP-F100	EU-F100	Hauling on Paved/Unpaved Roads	06-A-585-P
EP-F110	EU-F110	Wet Cake Storage	17-A-034
EP-T61	EU-T61	Denatured Ethanol Storage Tank	06-A-586-P2
EP-T62	EU-T62	Denatured Ethanol Storage Tank	06-A-587-P2
EP-T63	EU-T63	200 Proof Ethanol Storage Tank	06-A-588-P2
EP-T64	EU-T64	Denaturant Storage Tank	06-A-589-P2
EP-T65	EU-T65	190 Proof Ethanol Storage Tank	06-A-590-P2

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU I10	Bulk Diesel Tank 500 - Gallon
EU I20	Bulk Unleaded Fuel Tank -500 Gallon
EU F60	Corn Oil Tricanter Fugitives
EU 22CO	Corn Oil Truck Loadout
TS-6851	Syrup Feed Tank, 3500 gal
TS-8901	Corn Oil Storage Tank, 9200 gal
TS-8902	Corn Oil Storage Tank, 9200 gal
TS-8903	Corn Oil Storage Tank, 9200 gal
TS-8904	Corn Oil Storage Tank, 9200 gal
TS-6852	Syrup Receiver Tank, 560 gal
TS-6853	Corn Oil Receiver Tank, 200 gal
TS-6854	Corn Oil Receiver Tank, 300 gal

II. Plant-Wide Conditions

Facility Name: Southwest Iowa Renewable Energy LLC

Permit Number: 14-TV-014

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

Permit Duration

The term of this permit is: Five Years

Commencing on: 10/29/2019

Ending on: 10/28/2024

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

Emission Limits

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

Opacity (visible emissions): 40% opacity
Authority for Requirement: 567 IAC 23.3(2)"d"

Sulfur Dioxide (SO₂): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter

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

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a"

Fugitive Dust

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

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

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

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

40 CFR 60 Subpart A Requirements

This facility is an affected source and these General Provisions apply to the facility. The affected units are EU-S10, EU-S12A, EU-S12B, EU-22, EU-S40, EU-EMERG, EU-F60, EU-F110, EU-T61, EU-T62, EU-T63, EU-T64, and EU-T65.

Authority for Requirements: 40 CFR 60 Subpart A
567 IAC 23.1(2)

40 CFR 60 Subpart Db Requirements

This facility is subject to Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. The affected units are EU-S12A and EU-S12B.

Authority for Requirements: 40 CFR 60 Subpart Db
567 IAC 23.1(2) "ccc"

40 CFR 60 Subpart Kb Requirements

This facility is subject to the Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced after July 23, 1984. The affected units are EU-T61, EU-T62, EU-T63, EU-T64, and EU-T65.

Authority for Requirements: 40 CFR 60 Subpart Kb
567 IAC 23.1(2) "ddd"

40 CFR 60 Subpart VVa Requirements

This facility is subject to NSPS Subpart VV – Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry. However, the facility has chosen to satisfy the requirements of NSPS subpart VV by complying with the provisions of NSPS subpart VVa – Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After November 7, 2006 *in accordance with 40 CFR 60.480(e)(2)*.

The affected units are equipment in VOC service and any applicable devices and systems (as defined in 40 CFR 60.481) in the entire facility, which include EU-S10, EU-22, EU-40, EU-F60, EU-F110, EU-T61, EU-T62, EU-T63, EU-T64, and EU-T65. The owner or operator shall comply with the applicable requirements in 40 CFR 60.480a through 60.489, including recordkeeping requirements in 40 CFR 60.486 and reporting requirements in 40 CFR 60.487.

Authority for Requirements: 40 CFR 60 Subpart VVa
567 IAC 23.1(2) "nn"

40 CFR 60 Subpart IIII Requirements

This facility is subject to Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The affected unit is EU-EMERG.

Authority for Requirements: 40 CFR 60 Subpart IIII
567 IAC 23.1(2) "yyy"

40 CFR 63 Subpart ZZZZ Requirements

This facility is subject to Standards of Performance for Stationary Reciprocating Internal Combustion Engines. The affected unit is EU-EMERG.

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

III. Emission Point-Specific Conditions

Facility Name: Southwest Iowa Renewable Energy, LLC

Permit Number: 14-TV-014R1

Emission Point ID Number: EP-S10

Associated Equipment

Associated Emission Unit ID Numbers: EU-S10

Emissions Control Equipment ID Number: CE 10a, CE 10b

Emissions Control Equipment Description: 2 Regenerative Thermal Oxidizers, 18 MMBtu/hr (each)

Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-S10

Emission Unit Description: DDGS Dryers 1 through 6 and Distillation

Raw Material/Fuel: DDGS/Natural Gas and/or Process Gases

Rated Capacity: 60 ton/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-571-P7
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM10)
Emission Limit(s): 9.28 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-571-P7

Pollutant: Particulate Matter (PM)
Emission Limit(s): 9.28 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-571-P7
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 21.40 lb/hr, 500 ppmv
Authority for Requirement: DNR Construction Permit 06-A-571-P7
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 3.60 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-571-P7

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 9.50 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-571-P7

Pollutant: Volatile Organic Compounds (VOCs)
Emission Limit(s): 8.39 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-571-P7

Pollutant: Acetaldehyde (HAP)
Emission Limit(s): 0.93 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-571-P7

Pollutant: Acrolein (HAP)
Emission Limit(s): 0.44 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-571-P7

Pollutant: Formaldehyde (HAP)
Emission Limit(s): 0.12 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-571-P7

Pollutant: Methanol (HAP)
Emission Limit(s): 0.44 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-571-P7

Pollutant: Total HAP
Emission Limit(s): 1.93 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-571-P7

Emission Limits - Best Available Control Technology (BACT)

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: DNR Construction Permit 06-A-571-P7

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 9.28 lb/hr, 0.037 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-571-P7

Pollutant: Particulate Matter (PM)
Emission Limit(s): 9.28 lb/hr (1), 0.037 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-571-P7

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 21.40 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-571-P7

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 8.39 lb/hr, 98% reduction or 10 ppmv
Authority for Requirement: DNR Construction Permit 06-A-571-P7

Operating Requirements with Associated Monitoring and Recordkeeping

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

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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The dryers and thermal oxidizers shall combust only natural gas and/or process off-gases.
- B. The thermal oxidizers 1 (CE-C1A) and 2 (CE-C1B) shall be operated at all times that process streams are vented to them and each shall maintain an operating temperature (measured as a 3-hour average) of no less than 1,600 degrees Fahrenheit.
 - 1. The owner or operator shall collect and record the combustion chamber temperature of each thermal oxidizer, in degrees Fahrenheit on a continuous basis.
 - 2. The owner or operator shall calculate and record the 3-hour average of the combustion chamber temperature in degrees Fahrenheit. If the 3-hour average combustion chamber of each thermal oxidizer falls below 1,600 degrees Fahrenheit, the owner or operator shall investigate and make any necessary corrections.
- C. The owner or operator shall inspect and maintain each thermal oxidizer according to the facility's (Plant No. 78-01-110) operation and maintenance plan.
 - 1. The owner or operator shall keep a log of all maintenance and inspection activities performed on each thermal oxidizer. This log shall include, but shall not be limited to:
 - i. The date that any inspection and/or maintenance was performed on the control equipment;
 - ii. Any issues identified during the inspection;
 - iii. Any issues addressed during the maintenance activities;
 - iv. Any actions taken to correct operating temperature malfunctions; and
 - v. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 06-A-571-P7

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 125
Stack Opening, (inches, dia.): 84
Exhaust Flow Rate (scfm): 62,843 – 94,264
Exhaust Temperature (°F): 380
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 06-A-571-P7

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

Stack Testing:

Pollutant – VOC ⁽¹⁾

Stack Test to be Completed: Annually

Test Method - 40 CFR 60, Appendix A, Method 18

or 40 CFR 63, Appendix A, Method 320

Authority for Requirement - DNR Construction Permit 06-A-571-P7

Pollutant – HAP ⁽²⁾

Stack Test to be Completed: Annually

Test Method - 40 CFR 60, Appendix A, Method 18

or 40 CFR 63, Appendix A, Method 320

Authority for Requirement - DNR Construction Permit 06-A-571-P7

⁽¹⁾ Stack testing shall determine percent reduction, pounds per hour, and outlet concentration. The annual testing, as required by this permit shall commence in June, July, or August 2017.

⁽²⁾ Acetaldehyde, acrolein, formaldehyde, and methanol shall be tested for specifically. The specified HAP compounds that test below detection limits shall be assumed to be emitting at a rate equal to the detection limit. Should two (2) consecutive stack tests for HAPs demonstrate emission rates that are less than 90% of the emission limits in Construction Permit Condition 1b., the facility may request a reduction in testing frequency.

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? ⁽¹⁾ Yes No

⁽¹⁾ See Operating Requirements with Associated Monitoring and Recordkeeping section for CAM equivalent monitoring for VOCs.

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

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: EP-S12A, EP-S12B

Associated Equipment

Associated Emission Unit ID Numbers: EU-S12A, EU-S12B

Emissions Control Equipment ID Number: CE 12A, CE 12B

Emissions Control Equipment Description: Low-NO_x Burners

Continuous Emissions Monitors ID Numbers: ME-12

Emission Unit vented through this Emission Point: EU-S12A, EU-S12B

Emission Unit Description: Boiler #1, Boiler #2

Raw Material/Fuel: Natural Gas

Rated Capacity: 245 MMBtu/hr (each)

Applicable Requirements

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

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

Pollutant:	Opacity
Emission Limit(s):	40% ⁽¹⁾
Authority for Requirement:	DNR Construction Permits 08-A-476-P3, 08-A-477-P3 567 IAC 23.3(2) "d"

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

Pollutant:	Particulate Matter (PM ₁₀)
Emission Limit(s):	1.86 lb/hr, 11.29 tons/yr
Authority for Requirement:	DNR Construction Permits 08-A-476-P3, 08-A-477-P3

Pollutant:	Particulate Matter (PM)
Emission Limit(s):	1.86 lb/hr, 0.2 lb/MMBtu
Authority for Requirement:	DNR Construction Permits 08-A-476-P3, 08-A-477-P3 567 IAC 23.3(2) "b" (3)

Pollutant:	Sulfur Dioxide (SO ₂)
Emission Limit(s):	500 ppmv
Authority for Requirement:	DNR Construction Permits 08-A-476-P3, 08-A-477-P3 567 IAC 23.3(3) "e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 14.70 lb/hr ⁽⁵⁾, 89.13 ton/yr ⁽⁶⁾, 0.1 lb/MMBtu ⁽⁷⁾
Authority for Requirement: DNR Construction Permits 08-A-476-P3, 08-A-477-P3
40 CFR §60.44b(a)
567 IAC 23.1(2)"ccc"

⁽⁵⁾ The emission limit is based on a CEM emission factor of 0.06 lb/MMBtu.

⁽⁶⁾ The combined annual emission limit is based on the combined natural gas usage for Natural Gas Boilers #1 (EU-S12A) and #2 (EU-S12B).

⁽⁷⁾ As indicated in 40 CFR §60.44b(h), this limit applies at all times, including periods of startup, shutdown, and malfunction. In addition, as indicated in 40 CFR §60.44b(i), compliance with this limit is determined on a 30-day rolling average basis.

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 16.17 lb/hr ⁽⁹⁾, 98.04ton/yr ⁽⁶⁾
Authority for Requirement: DNR Construction Permits 08-A-476-P3, 08-A-477-P3

⁽⁹⁾ The emission limit is based on a stack test emission factor of 0.066 lb/MMBtu.

⁽⁶⁾ The combined annual emission limit is based on the combined natural gas usage for Natural Gas Boilers #1 (EU-S12A) and #2 (EU-S12B).

Pollutant: Hexane (HAP):
Emission Limit(s): 2.60 ton/yr ⁽¹⁰⁾
Authority for Requirement: DNR Construction Permits 08-A-476-P3, 08-A-477-P3

⁽¹⁰⁾ The combined annual emission limit for Boilers #1 and #2. It is based on the combined natural gas usage for EU-S12A and EU-S12B.

Pollutant: Total HAP
Emission Limit(s): 2.71 ton/yr ⁽¹⁰⁾
Authority for Requirement: DNR Construction Permits 08-A-476-P3, 08-A-477-P3

⁽¹⁰⁾ The combined annual emission limit for Boilers #1 and #2. It is based on the combined natural gas usage for EU-S12A and EU-S12B.

Emission Limits - Best Available Control Technology (BACT) (for each emission unit)

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: DNR Construction Permits 08-A-476-P3, 08-A-477-P3

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 1.86 lb/hr (2); 0.0076 lb/MMBtu
Authority for Requirement: DNR Construction Permits 08-A-476-P3, 08-A-477-P3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.86 lb/hr; 0.0076 lb/MMBtu
Authority for Requirement: DNR Construction Permits 08-A-476-P3, 08-A-477-P3

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 0.0006 lb/MMBtu
Authority for Requirement: DNR Construction Permits 08-A-476-P3, 08-A-477-P3

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.0055 lb/MMBtu
Authority for Requirement: DNR Construction Permits 08-A-476-P3, 08-A-477-P3

New Source Performance Standards (NSPS) Requirements

These emission units are subject to Subpart A (General Provisions, 40 CFR 60.1 through 60.19) and Subpart Db (Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60.40b through 60.49b) of the New Source Performance Standards (NSPS).

Authority for Requirements: 40 CFR 60 Subpart A
567 IAC 23.1(2)
40 CFR 60 Subpart Db
567 IAC 23.1(2)"ccc"

Operating Requirements with Associated Monitoring and Recordkeeping

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

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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. Natural Gas Boilers #1 (EU-S12A) and #2 (EU-S12B) shall combust only natural gas.
- B. The total combined amount of natural gas that Natural Gas Boiler #1 (EU-S12A) and Natural Gas Boiler #2 (EU-S12B) may burn shall not exceed 2,890 million cubic feet per rolling 12-month period.
 1. The owner or operator shall record the combined amount of natural gas, in million cubic feet, that Natural Gas Boiler #1 (EU-S12A) and Natural Gas Boiler #2 (EU-S12B) combust on a monthly basis.
 2. The owner or operator shall calculate and record the combined amount of natural gas, in million cubic feet, that Natural Gas Boiler #1 (EU-S12A) and Natural Gas Boiler #2 (EU-S12B) combust on a rolling 12-month basis.
- C. The owner or operator shall comply with the applicable standards in 40 CFR Part 60, Subpart Db [§60.40b - §60.49b], including those not specifically mentioned in this permit.
 1. The owner or operator shall maintain records of the following information for each steam generating unit operating day. This information shall be submitted in a report, as required in 40 CFR §60.49b(i).
 - i. Calendar date;
 - ii. The average hourly NO_x emission (as NO₂) rates measured;
 - iii. The 30-day average NO_x emission rates calculated at the end of each steam generating unit operating day from the measured hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;
 - iv. Identification of the steam generating unit operating days when the calculated 30-day average NO_x emission rates are in excess of the NO_x emission standard in §60.44b, with the reasons for such excess emissions as well as a description of corrective

- actions taken;
- v. Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
- vi. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
- vii. Identification of the “F” factor used for calculations, method of determination, and type of fuel combusted;
- viii. Identification of the times when the pollutant concentration exceeds full span of the CEMS;
- ix. Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and
- x. Results of daily CEMS drift tests and quarterly accuracy assessments as required in 40 CFR Appendix F, Procedure 1.

Continuous Emission Monitoring

A. NSPS Monitoring Requirements for Nitrogen Oxides Emission Standards:

1. The owner or operator shall continuously monitor emissions of nitrogen oxides (NO_x) discharged to the atmosphere through EP-S12A and EP-S12B. Therefore, in accordance with 40 CFR §60.48b(b)(1), the owner or operator shall install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) for measuring NO_x concentrations from each stack and shall record the output of the CEMS.
2. Each CEMS required by this permit to monitor NO_x emissions discharged to the atmosphere through EP-S12A and EP-S12B shall be designed to meet the requirements in 40 CFR Part 60, Appendix B, Performance Specification 2 (PS2) – Specifications and Test Procedures for SO₂ and NO_x Continuous Emission Monitoring Systems in Stationary Sources and Performance Specification 6 (PS6) – Specifications and Test Procedures for Continuous Emission Rate Monitoring Systems in Stationary Sources.
3. Each CEMS required by this permit shall comply with the applicable requirements in Appendix F to 40 CFR Part 60 – Quality Assurance Procedures, including, but not limited to the following requirements:
 - i. The owner or operator shall develop and implement a quality control (QC) program. As a minimum, each QC program shall include written procedures which should describe in detail, complete, step-by-step procedures and operations for each of the following activities:
 - a. Calibration of the CEMS;
 - b. Calibration drift determination and adjustment of the CEMS;
 - c. Preventive maintenance of the CEMS (including spare parts inventory);
 - d. Data recording, calculations, and reporting;
 - e. Accuracy audit procedures including sampling and analysis methods; and
 - f. Program of corrective action for malfunctioning CEMS.
 - ii. Whenever excessive inaccuracies occur for two consecutive quarters, the owner or operator shall revise the current written procedures or shall modify or replace the CEMS to correct the deficiency causing the excessive inaccuracies.
 - iii. The owner or operator shall keep on-site a copy of these written procedures and shall

- make them available for inspection by the Department.
- iv. The owner or operator shall conduct a Relative Accuracy Test Audit (RATA) at least once every four calendar quarters and shall submit RATA reports to the Department.

Authority for Requirement: DNR Construction Permits 08-A-476-P3, 08-A-477-P3

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 65
Stack Opening, (inches, dia.): 54
Exhaust Flow Rate (scfm): 49, 067
Exhaust Temperature (°F): 320
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 08-A-476-P3, 08-A-477-P3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 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: EP-S20

Associated Equipment

Associated Emission Unit ID Numbers: EU-20, EU-20b

Emissions Control Equipment ID Number: CE 20

Emissions Control Equipment Description: Baghouse

Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-20, EU-20b, EU-20c, EU-20d, EU-20e, EU-20f, EG-20g

Emission Unit Description: Grain Unloading, 4 x 500,000 bushel silos, 1 x 44,000 bushel day bin, 1 x 21,000 bushel scalper bin

Raw Material/Fuel: Grain

Rated Capacity: 26,000 bushels/hr

Applicable Requirements

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

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

Pollutant:	Opacity
Emission Limit(s):	40% ⁽¹⁾
Authority for Requirement:	DNR Construction Permit 06-A-575-P3 567 IAC 23.3(2) "d"

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

Pollutant:	Particulate Matter (PM ₁₀)
Emission Limit(s):	0.78 lb/hr
Authority for Requirement:	DNR Construction Permit 06-A-575-P3

Pollutant:	Particulate Matter (PM)
Emission Limit(s):	0.1 gr/dscf;
Authority for Requirement:	DNR Construction Permit 06-A-575-P3 567 IAC 23.4(7)

Emission Limits - Best Available Control Technology (BACT)

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: DNR Construction Permit 06-A-575-P3

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 6.76 ton/yr, 0.004 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-575-P3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 6.76 ton/yr, 0.004 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-575-P3

Operating Requirements with Associated Monitoring and Recordkeeping

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

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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall maintain the Baghouse (CE 20) according to the facility's operations and maintenance plan. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Baghouse (CE 20). This log shall include, but is not necessarily limited to:
 - 1. The date and time any inspection and/or maintenance was performed on the Baghouse (CE 20);
 - 2. Any issues identified during the inspection and the date each issue was resolved;
 - 3. Any issues addressed during the maintenance activities and the date each issue was resolved; and
 - 4. Identification of the staff member performing the maintenance or inspection.
 - B. The facility shall not receive more than 48,180,000 bushels of grain in any rolling 12-month period. The owner or operator shall:
 - 1. On a monthly basis, record the total amount grain received at the facility, in bushels; and
 - 2. On a monthly basis, calculate and record the rolling 12-month total, in bushels.
 - C. The grain unloading shall be done using choke flow and enclosed dump pits whenever possible.
- Authority for Requirement: DNR Construction Permit 06-A-575-P3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40
Stack Opening, (inches, dia.): 44
Exhaust Flow Rate (scfm): 33,500
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 06-A-575-P3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 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: EP-22

Associated Equipment

Associated Emission Unit ID Numbers: EU-22

Emissions Control Equipment ID Number: CE 22

Emissions Control Equipment Description: Vapor Recovery System and Flare (12.4 MMBtu/hr)

Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-22

Emission Unit Description: Product Loadout

Raw Material/Fuel: Denatured and Undenatured Ethanol/Natural Gas

Rated Capacity: 140 Mgal/yr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 0% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-581-P3

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

Pollutant: Particulate Matter (PM)

Emission Limit: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit: 500 ppmv

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 44.59 ton/yr ⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-581-P3

⁽²⁾ VOC emissions are based on worst case loadout scenario of: (1) A maximum railcar loading of 102.5 million gallons/year; (2) A maximum truck loading of 37.5 million gallons/year; and (3) A flare destruction efficiency of 98 percent.

Pollutant: Hexane (Single HAP)

Emission Limit(s): 0.64 ton/yr ⁽³⁾

Authority for Requirement: DNR Construction Permit 06-A-581-P3

⁽³⁾ HAP emissions are based on worst case loadout scenario of: (1) A maximum railcar loading of 102.5 million gallons/year; (2) A maximum truck loading of 37.5 million gallons/year; and (3) A flare destruction efficiency of 98 percent.

Pollutant: Total HAP
Emission Limit(s): 0.78 ton/yr⁽³⁾
Authority for Requirement: DNR Construction Permit 06-A-581-P3

⁽³⁾ HAP emissions are based on worst case loadout scenario of: (1) A maximum railcar loading of 102.5 million gallons/year; (2) A maximum truck loading of 37.5 million gallons/year; and (3) A flare destruction efficiency of 98 percent.

Emission Limits - Best Available Control Technology (BACT)

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: DNR Construction Permit 06-A-581-P3

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 98% destruction efficiency
Authority for Requirement: DNR Construction Permit 06-A-581-P3

Operating Requirements with Associated Monitoring and Recordkeeping

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

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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The auxiliary fuel used in the flare (CE-22) shall be limited to natural gas or propane.
- B. The total amount of product (denatured and undenatured ethanol) loaded at Plant Number 78-01-110 shall not exceed 140 million gallons per rolling 12-month period.
 1. The owner or operator shall record the combined amount of product, in gallons, loaded into trucks and railcars on a monthly basis.
 2. The owner or operator shall calculate and record the combined amount of product (denatured and undenatured ethanol), in gallons, loaded into trucks and railcars on a rolling 12-month basis.
- C. The amount of product (denatured and undenatured ethanol) loaded out to trucks shall not exceed 37.5 million gallons per rolling 12-month period.
 1. The owner or operator shall record the amount of product (denatured and undenatured ethanol), in gallons, loaded out to trucks on a monthly basis.
 2. The owner or operator shall calculate and record the amount of product (denatured and undenatured ethanol), in gallons, loaded out to trucks on a rolling 12-month basis.
- D. The flare (CE-22) shall:
 1. Be used whenever product is loaded into trucks or railcars;
 2. Be designed to ensure smokeless operation;
 3. Be designed for and operated with no visible emissions, except for periods not exceeding a total of five (5) minutes during any two (2) consecutive hours; and
 4. Be operated with a flame present at all times.
 - i. The owner or operator shall monitor the presence of a flare pilot flame using a

thermocouple or any other equivalent device to detect the presence of a flame.

- E. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
 1. The date any inspection and/or maintenance was performed on the control equipment;
 2. Any issues identified during the inspection;
 3. Any issues addressed during the maintenance activities; and
 4. Identification of the staff member performing the maintenance or inspection.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30
 Stack Opening, (inches, dia.): 28.8
 Exhaust Flow Rate (scfm): 4,160
 Exhaust Temperature (°F): 1,800
 Discharge Style: Vertical, unobstructed
 Authority for Requirement: DNR Construction Permit 06-A-581-P3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 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: EP-S30-1, EP-S30-2, EP-S30-3, EP-S30-4
Associated Equipment**

Emission Point	Emission Unit ID Number	Emissions Control Equipment ID Number	Emissions Control Equipment Description	DNR Construction Permit Numbers
EP S30-1	EU 30-1	CE 30-1	Baghouse	17-A-002
EP S30-2	EU 30-2	CE 30-2		17-A-003
EP S30-3	EU 30-3	CE 30-3		17-A-004
EP S30-4	EU 30-4	CE 30-4		17-A-005

Emission Point	Emission Unit Vented through this EP	Emission Unit Description	Raw Material/Fuel	Rated Capacity (bu/hr) Each
EP S30-1	EU 30-1	Hammermill	Grain	2313
EP S30-2	EU 30-2			
EP S30-3	EU 30-3			
EP S30-4	EU 30-4			

Applicable Requirements

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

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

Pollutant: Opacity
 Emission Limit(s): 40% ⁽¹⁾
 Authority for Requirement: DNR Construction Permits 17-A-002 (EP S30-1), 17-A-003 (EP S30-2), 17-A-004 (EP S30-3), 17-A-005 (EP S30-4)
 567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)
 Emission Limit(s): 0.11 lb/hr
 Authority for Requirement: DNR Construction Permits 17-A-002, 17-A-003, 17-A-004, 17-A-005

Pollutant: Particulate Matter (PM)
 Emission Limit(s): 22 lb/hr, 0.1 gr/dscf
 Authority for Requirement: DNR Construction Permits 17-A-002, 17-A-003, 17-A-004, 17-A-005
 567 IAC 23.4(7)

Operating Requirements with Associated Monitoring and Recordkeeping

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

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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The Baghouse (CE 30-1, CE 30-2, CE 30-3, CE 30-4) shall be operated and maintained according to the manufacturer’s specifications. A log of all scheduled maintenance and inspection activities performed on the Baghouse (CE 30-1, CE 30-2, CE 30-3, CE 30-4) shall be maintained. This log shall include, but is not necessarily limited to:
 - 1. The date and time any inspection and/or maintenance was performed on the Baghouse (CE 30-1, CE 30-2, CE 30-3, CE 30-4);
 - 2. Any issues identified during the inspection and the date each issue was resolved;
 - 3. Any issues addressed during the maintenance activities and the date each issue was resolved; and
 - 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permits 17-A-002, 17-A-003, 17-A-004, 17-A-005

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground):	40
Stack Opening, (inches, dia.):	18
Exhaust Flow Rate (scfm):	6,500
Exhaust Temperature (°F):	70
Discharge Style:	Vertical, unobstructed
Authority for Requirement:	DNR Construction Permits 17-A-002, 17-A-003, 17-A-004, 17-A-005

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

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

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: EP-S40

Associated Equipment

Associated Emission Unit ID Numbers: EU-40
Emissions Control Equipment ID Number: CE 40
Emissions Control Equipment Description: Scrubber
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-40
Emission Unit Description: 8 Fermenters and Beer Well
Raw Material/Fuel: Beer
Rated Capacity: 807,000 gallons (each fermenter)

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-577-P5
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-577-P5
567 IAC 23.3(2) "a"

Pollutant: Acetaldehyde (HAP)
Emission Limit(s): 0.68 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-577-P5

Pollutant: Acrolein (HAP)
Emission Limit(s): 0.17 lb/hr ⁽²⁾
Authority for Requirement: DNR Construction Permit 06-A-577-P5

Pollutant: Formaldehyde (HAP)
Emission Limit(s): 0.05 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-577-P5

Pollutant: Methanol (HAP)
Emission Limit(s): 0.27 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-577-P5

Pollutant: Total HAP
Emission Limit(s): 1.17 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-577-P5

Emission Limits - Best Available Control Technology (BACT)

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: DNR Construction Permit 06-A-577-P5

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 1.0 lb/hr, 4.38 ton/yr
Authority for Requirement: DNR Construction Permit 06-A-577-P5

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.0 lb/hr; 4.38 ton/yr
Authority for Requirement: DNR Construction Permit 06-A-577-P5

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 12.6 lb/hr; 55.3 ton/yr; 95% reduction or 100 ppmv
Authority for Requirement: DNR Construction Permit 06-A-577-P5

New Source Performance Standards (NSPS) Requirements

The facility is subject to NSPS 40 CFR Part 60, Subpart VVa for Equipment leaks of volatile organic compounds in the synthetic organic chemicals manufacturing industry. Standards for affected facilities in the synthetic organic chemicals manufacturing industry.

Authority for Requirement: 40 CFR Part 60, Subpart VVa
567 IAC 23.1(2)"nn"

Operating Requirements with Associated Monitoring and Recordkeeping

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

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 Department. Records shall be legible and maintained in an orderly manner. These records shall show the following:

Operating Limits

- A. The owner or operator shall develop an operating and maintenance plan for the wet scrubber (CE 40) including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.
- B. The owner or operator shall maintain a minimum scrubber liquid (water) at the inlet to the wet scrubber (CE 40) equal to or greater than the total liquid flow rate measured during a previous performance test demonstrating compliance with the VOC emission limit.

- C. The owner or operator shall add any additive to the scrubber liquid at a rate greater than or equal to the rate measured during a previous performance test demonstrating compliance with the all applicable emission limitations.
- D. The owner or operator shall maintain a pressure drop across the scrubber equal to the rate measured during a previous performance test demonstrating compliance with the all applicable emission limitations.

Record Keeping

- A. The owner or operator shall maintain a record of all inspections of the control equipment. The owner or operator shall document the results of the inspections and note any repairs that were the result of the inspections.
- B. The owner or operator shall monitor, collect, and record the scrubber liquid (water) flow rate. If the flow rate deviates below the minimum flow rate required, then record the time, date and actions taken to correct the situation, and when the flow rate is back above the minimum flow rate required.
- C. The owner or operator shall monitor, collect, and record the rate of scrubber liquid additive added to the scrubber liquid. If the additive feed rate deviates from the rate required, then record the time, date and actions taken to correct the situation, and when the flow rate is within normal operating range.
- D. The owner or operator shall monitor, collect, and record the pressure drop across scrubber. If the pressure drop deviates from the required pressure drop, then record the time, date and actions taken to correct the situation, and when the pressure drop is within normal operating range.

Authority for Requirement: DNR Construction Permit 06-A-577-P5

Readings and measurements listed above in the Operating Requirements with Associated Monitoring and Recordkeeping Section shall be performed daily.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground):	75
Stack Opening, (inches, dia.):	27
Exhaust Flow Rate (acfm):	10,000 - 15,000
Exhaust Temperature (°F):	75
Discharge Style:	Vertical, unobstructed
Authority for Requirement:	DNR Construction Permit 06-A-577-P5

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

Stack Testing:

Pollutant – VOC ⁽¹⁾

Stack Test to be Completed: Annually ⁽²⁾

Test Method - 40 CFR 60, Appendix A, Method 25A

Authority for Requirement - DNR Construction Permit 06-A-577-P5

Pollutant – HAP ⁽³⁾

Stack Test to be Completed: Annually ⁽²⁾

Test Method - 40 CFR 60, Appendix A, Method 18

Authority for Requirement - DNR Construction Permit 06-A-577-P5

Pollutant – THAP

Stack Test to be Completed: Annually ⁽²⁾

Test Method - 40 CFR 60, Appendix A, Method 18

Authority for Requirement - DNR Construction Permit 06-A-577-P5

⁽¹⁾ Testing shall determine pounds per hour and either percent reduction or outlet concentration.

⁽²⁾ Annual tests shall be performed during the months of June, July or August.

⁽³⁾ Acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically. HAP emission results less than the method detection limit shall be assumed at the method detection limit.

The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? ⁽¹⁾ Yes No

⁽¹⁾ See Operating Requirements with Associated Monitoring and Recordkeeping section for CAM equivalent monitoring for VOCs.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-S70

Associated Equipment

Associated Emission Unit ID Numbers: EU-70
Emissions Control Equipment ID Number: CE 70
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-70
Emission Unit Description: DDGS Cooler
Raw Material/Fuel: DDGS
Rated Capacity: 50 ton/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-578-P2
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.64 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-578-P2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.64 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-578-P2
567 IAC 23.4(7)

Pollutant: Acetaldehyde (HAP)
Emission Limit(s): 0.097 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-578-P2

Pollutant: Acrolein (HAP)
Emission Limit(s): 0.135 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-578-P2

Pollutant: Formaldehyde (HAP)
Emission Limit(s): 0.06 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-578-P2

Pollutant: Methanol (HAP)
Emission Limit(s): 0.174 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-578-P2

Pollutant: Total HAP
Emission Limit(s): 0.50 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-578-P2

Emission Limits - Best Available Control Technology (BACT)

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: DNR Construction Permit 06-A-578-P2

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.64 lb/hr ⁽¹⁾, 0.004 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-578-P2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.64 lb/hr ⁽¹⁾, 0.004 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-578-P2

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 3.0 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-578-P2

Operating Requirements with Associated Monitoring and Recordkeeping

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

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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall inspect and maintain the baghouse according to the facility's (Plant No. 78-01-110) operation and maintenance plan.
 - 1. The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouse. This log shall include, but shall not limited to:
 - i. Daily pressure drop;
 - ii. The date that any inspection and/or maintenance was performed on the control equipment;
 - iii. Any issues identified during the inspection;
 - iv. Any issues addressed during the maintenance activities; and
 - v. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 06-A-578-P2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 60
Stack Opening, (inches, dia.): 48
Exhaust Flow Rate (acfm): 14,535
Exhaust Temperature (°F): 85
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 06-A-578-P2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 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? ⁽¹⁾ Yes No

⁽¹⁾ See Operating Requirements with Associated Monitoring and Recordkeeping section for CAM equivalent monitoring.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-F80

Associated Equipment

Associated Emission Unit ID Numbers: EU-80
Emissions Control Equipment ID Number: CE 80
Emissions Control Equipment Description: Mist Eliminator
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-80
Emission Unit Description: Cooling Tower (4 Cells)
Raw Material/Fuel: Cooling Water
Rated Capacity: 3,000,000 gal/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-584P-S1
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.63 lb/hr; 2.74 ton/yr
Authority for Requirement: DNR Construction Permit 06-A-584P-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-584P-S1
Authority for Requirement: 567 IAC 23.3(2)"a"

Emission Limits - Best Available Control Technology (BACT)

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: DNR Construction Permit 06-A-584P-S1

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.63 lb/hr; 2.74 ton/yr
Authority for Requirement: DNR Construction Permit 06-A-584P-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.63 lb/hr; 2.74 ton/yr
Authority for Requirement: DNR Construction Permit 06-A-584P-S1

Operating Requirements with Associated Monitoring and Recordkeeping

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

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of two (2) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

Operating Limits

- A. The mist eliminator on the cooling tower cells shall be rated at 0.001% or better.
- B. The Total Dissolved Solids (TDS) content of the water in the cooling towers shall not exceed 2500 ppm.
- C. Chromium-based water treatment chemicals shall not be used in any cooling tower cells.

Operating Condition Monitoring

- A. The owner or operator shall maintain a record of all inspections of the control equipment. The owner or operator shall document the results of the inspections and note any repairs that were the result of the inspections.
- B. The TDS content of the water in the cooling towers shall be tested once per calendar month.
- C. Maintain MSDS sheets for all treatment chemicals used in these cooling tower cells.

Authority for Requirement: DNR Construction Permit 06-A-584P-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30
Stack Opening, (inches, dia.): 360
Exhaust Flow Rate (scfm): 2,142,840
Exhaust Temperature (°F): 85
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 06-A-584P-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 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: EP-F81

Associated Equipment

Associated Emission Unit ID Numbers: EU-81
Emissions Control Equipment ID Number: CE F81
Emissions Control Equipment Description: Mist Eliminator
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-81
Emission Unit Description: Cooling Tower #2 (2 Cells)
Raw Material/Fuel: Cooling Water
Rated Capacity: 27,500 gal/min

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 17-A-006
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.69 lb/hr ⁽²⁾
Authority for Requirement: DNR Construction Permit 17-A-006

⁽²⁾ Total for both cells combined.

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.69 lb/hr ⁽³⁾, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 17-A-006
567 IAC 23.3(2)"a"

⁽³⁾ Total for both cells combined.

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 5.0 tons/yr ⁽⁴⁾
Authority for Requirement: DNR Construction Permit 17-A-006

⁽⁴⁾ Total for all cooling towers at this facility.

Operating Requirements with Associated Monitoring and Recordkeeping

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

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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The total dissolved solids (TDS) of the water used shall not exceed 2500 ppm (monthly average).
 - 1. Record the analysis of the TDS of the water used for each month this emission unit is in use and the monthly average TDS of the water.
- B. Chromium based and HAP containing water treatment chemicals (i.e. biocides, fungicides, scale inhibitors, etc.) shall not be used in this emission unit.
 - 1. Retain a copy of the Material Safety Data Sheet (MSDS) for each water treatment chemical used in this emission unit.
- C. The facility-wide usage of VOC containing cooling tower chemical additives shall not exceed 10,000 pounds per twelve (12) month rolling period.
 - 1. During the first twelve (12) months of operation determine the total amount of VOC containing cooling tower chemical additive used by the facility (plant number 78-01-110) for each month of operation. Purchase records may be used to record usage if it is assumed that a full delivery is used within the month it is received.
 - 2. After the first twelve (12) months of operation determine the annual amount of VOC containing cooling tower chemical additive used by the facility (plant number 78-01-110) on a rolling twelve (12) month basis for each month of operation.

Authority for Requirement: DNR Construction Permit 17-A-006

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 43
Stack Opening, (inches, dia.): 396 (each cell)
Exhaust Flow Rate (scfm): 1,090,579 (each cell)
Exhaust Temperature (°F): 94
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 17-A-006

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 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: EP-S90

Associated Equipment

Associated Emission Unit ID Numbers: EU-90
Emissions Control Equipment ID Number: CE 90
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-90
Emission Unit Description: DDGS Loadout
Raw Material/Fuel: DDGS
Rated Capacity: 200 ton/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 19-A-173-P2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.18 lb/hr; 0.79 ton/yr
Authority for Requirement: DNR Construction Permit 19-A-173-P2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 19-A-173-P2
567 IAC 23.4(7)

Pollutant: (Single HAP)
Emission Limit(s): 0.053 lb/hr
Authority for Requirement: DNR Construction Permit 19-A-173-P2

Pollutant: (Total HAP)
Emission Limit(s): 0.26 lb/hr
Authority for Requirement: DNR Construction Permit 19-A-173-P2

Emission Limits - Best Available Control Technology (BACT)

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: DNR Construction Permit 19-A-173-P2

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.29 lb/hr; 1.27 ton/yr; 0.004 gr/dscf
Authority for Requirement: DNR Construction Permit 19-A-173-P2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.29 lb/hr; 1.27 ton/yr; 0.004 gr/dscf
Authority for Requirement: DNR Construction Permit 19-A-173-P2

Operating Requirements with Associated Monitoring and Recordkeeping

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

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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall not operate the DDGS loadout more than 3,000 hours per rolling 12-month period.
 - 1. The owner or operator shall maintain records of the total hours of operation of the DDGS loadout on a monthly basis. Calculate and record the rolling 12-month totals.
- B. Maintain the control device according to manufacturer specifications and maintenance schedule.
 - 1. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control device.

Authority for Requirement: DNR Construction Permit 19-A-173-P2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 10,600
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 19-A-173-P2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator

shall submit a request either by electronic mail or written correspondence to the Department within 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

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

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: EP-Emerg

Associated Equipment

Associated Emission Unit ID Numbers: EU-Emerg
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: None
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-Emerg
Emission Unit Description: Emergency Fire Pump Generator
Raw Material/Fuel: Diesel
Rated Capacity: 300 bhp

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-582-P1
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of 20% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.60 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-582-P1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-582-P1
567 IAC 23.3(2)"a"(1)

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 5.0 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-582-P1

Best Available Control Technology (BACT) Limits

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: DNR Construction Permit 06-A-582-P1

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.60 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-582-P1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.60 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-582-P1

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 0.90 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-582-P1

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.64 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-582-P1

New Source Performance Standards (NSPS)

Pollutant: Particulate Matter (PM) – Federal
Emission Limit(s): 0.40 grams/HP-hr
Authority for Requirement: DNR Construction Permit 06-A-582-P1
40 CFR Part 60.4205(c)
567 IAC 23.1(2)"yyy"

Pollutant: Opacity – Acceleration Mode
Emission Limit(s): 20%
Authority for Requirement: DNR Construction Permit 06-A-582-P1
40 CFR Part 60.4211(b)(1)
40 CFR Part 89.113(a)(1)

Pollutant: Opacity – Lugging Mode
Emission Limit(s): 15%
Authority for Requirement: DNR Construction Permit 06-A-582-P1
40 CFR Part 60.4211(b)(1)
40 CFR Part 89.113(a)(2)

Pollutant: Opacity – Peaks in either the Acceleration or Lugging Modes
Emission Limit(s): 50%
Authority for Requirement: DNR Construction Permit 06-A-582-P1
40 CFR Part 60.4211(b)(1)
40 CFR Part 89.113(a)(3)

Pollutant: Non-methane Hydrocarbons (NMHC) + Nitrogen Oxides (NO_x)
Emission Limit(s): 7.8 grams/HP-hr
Authority for Requirement: DNR Construction Permit 06-A-582-P1
40 CFR Part 60.4205(c)
567 IAC 23.1(2)"yyy"

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 2.6 grams/HP-hr
Authority for Requirement: DNR Construction Permit 06-A-582-P1
40 CFR Part 60.4205(c)
567 IAC 23.1(2)"yyy"

Pollutant: Fuel Sulfur Content
Emission Limit(s): 15 ppm (0.0015%) by weight
Authority for Requirement: DNR Construction Permit 06-A-582-P1
40 CFR Part 60.4207(b)
40 CFR Part 80.510(b)(1)(i)

New Source Performance Standards (NSPS) Requirements

The Emergency Fire Pump Diesel Engine (EU-Emerg) is subject to NSPS 40 CFR Part 60.1 – 60.19, Subpart A for General Provisions; and NSPS 40 CFR Part 60.4200 – 60.4219 Subpart III for Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.
Authority for Requirement: 40 CFR Part 60.1 – 60.19, Subpart A
567 IAC 23.1(2)
40 CFR Part 60.4200 – 60.4219, Subpart III
567 IAC 23.1(2)"yyy"

Operating Requirements with Associated Monitoring and Recordkeeping

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

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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The Emergency Fire Pump Diesel Engine (EU-Emerg) is limited to burning diesel fuel with a maximum sulfur content of 15 ppm (0.0015%) by weight and either a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume.
 1. The owner or operator shall have the fuel supplier certify that the fuel delivered meets the definition of non-road diesel fuel as indicated in 40 CFR §80.510(b); or
 2. The owner or operator shall obtain a fuel analysis from the supplier showing the sulfur content and cetane index or aromatic content of the fuel delivered; or
 3. The owner or operator shall perform an analysis of the fuel to determine the sulfur content and cetane index or aromatic content of the fuel received.
- B. The Emergency Fire Pump Diesel Engine (EU-Emerg) is limited to operating a maximum of

300 hours in any 12-month rolling period.

1. The owner or operator shall maintain the following monthly records:

- i. The total number of hours that the engine operated and
- ii. The rolling 12-month total of the number of hours that the engine operated.

C. This engine is limited to operate as an emergency fire pump engine as defined in §60.4219 and in accordance with §60.4211. There is no limit on the use of the fire pump engine in emergency situations provided that the annual hourly limit established in this permit is not exceeded. In accordance with §60.4211, the fire pump engine is limited to operating a maximum of 100 hours per year for maintenance checks and readiness testing. The fire pump engine is also allowed to operate up to 50 hours per year in non-emergency situations, but the 50 hours are counted toward the 100 hours provided for maintenance and testing. The 50 hours per year for non-emergency operation cannot be used to generate income for the facility to supply power to the electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. This fire pump engine is not allowed to operate as a peak shaving unit.

1. The owner or operator shall maintain the following monthly records:

- i. The number of hours that the engine operated for maintenance checks and readiness testing and
- ii. The number of hours that the engine operated for allowed non-emergency situations.

2. The owner or operator shall maintain the following annual records:

- i. The number of hours that the engine operated for maintenance checks and readiness testing and
- ii. The number of hours that the engine operated for allowed non-emergency operations.

D. The owner or operator shall comply with the applicable standards in 40 CFR Part 60, Subpart III [§60.4200 - §60.4219], including those not specifically mentioned in this permit.

1. Per 40 CFR §60.4206, the owner or operator must ensure that the Emergency Fire Pump Diesel Engine (EU-Emerg) complies with the applicable emission standards in §60.4205 over the entire life of the engine.

2. Per 40 CFR §60.4209(a), the engine shall be equipped with a non-resettable hour meter.

3. Per 40 CFR §60.4211(a), the owner or operator shall comply with the applicable emissions standards in §60.4205 by doing the following:

- i. Operate and maintain the engine according to the manufacturer's emission-related written instructions;
- ii. Change only those emission-related settings that are permitted by the manufacturer; and
- iii. Meet the requirements of 40 CFR Parts 89, 94, and/or 1068 as applicable.

4. In accordance with §60.4211(b), the owner or operator of a fire pump engine that must comply with the emission standards specified in §40.4205(c), must demonstrate compliance by:

- i. Purchasing an engine certified according to 40 CFR Part 89 or 40 CFR Part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.
- ii. Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in Subpart III and these methods must have been followed correctly.
- iii. Keeping records of engine manufacturer data indicating compliance with the

- standards.
 - iv. Keeping records of control device vendor data indicating compliance with the standards.
 - v. Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in §60.4212, as applicable.
 - 5. Per 40 CFR §60.4211(g), if the engine is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or the emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as follows:
 - i. Keep a maintenance plan and records of conducted maintenance;
 - ii. To the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions; and
 - iii. Conduct an initial performance test to demonstrate compliance with the applicable emission standards as instructed in 40 CFR §60.4211(g)(2).
- Authority for Requirement: DNR Construction Permit 06-A-582-P1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30
 Stack Opening, (inches, dia.): 3.6
 Exhaust Flow Rate (acfm): 242
 Exhaust Temperature (°F): 660
 Discharge Style: Vertical, unobstructed
 Authority for Requirement: DNR Construction Permit 06-A-582-P1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 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: EP-F60

Associated Equipment

Associated Emission Unit ID Numbers: EU-F60

Emissions Control Equipment ID Number: None

Emissions Control Equipment Description: Leak Detection and Repair (LDAR)

Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-F60

Emission Unit Description: VOC Emissions from Equipment Leaks

Raw Material/Fuel: VOC Leaks

Rated Capacity: NA

Applicable Requirements

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

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 11.24 ton/yr ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-583-P2

⁽¹⁾ VOC emissions are based on maximum component count.

Pollutant: Acetaldehyde (Single HAP)

Emission Limit(s): 1.85 ton/yr ⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-583-P2

⁽²⁾ HAP emissions are based on maximum component count.

Pollutant: Total HAP

Emission Limit(s): 4.60 ton/yr ⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-583-P2

⁽²⁾ HAP emissions are based on maximum component count.

New Source Performance Standards (NSPS) Requirements

Emission unit EU-F60 is subject to NSPS 40 CFR Part 60.1 – 60.19, Subpart A for General Provisions; and NSPS 40 CFR Part 60.480a – 60.489a, Subpart VVa for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification commenced after November 7, 2006.

Authority for Requirement: 40 CFR Part 60.1 – 60.19, Subpart A

567 IAC 23.1(2)

40 CFR Part 60.480a – 60.489a, Subpart VVa

567 IAC 23.1(2)"nn"

Operating Requirements with Associated Monitoring and Recordkeeping

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

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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall comply with the applicable standards in 40 CFR Part 60, Subpart VVa [§60.480a – 60.489a], including those not specifically mentioned in this permit.
 - 1. The owner or operator shall comply with the applicable recordkeeping and reporting requirements in §60.486a and §60.487a, respectively.
 - B. The owner or operator shall document once per calendar year the number and types of components used. Components include, but are not limited to, valves, pumps, compressor seals, flanges, etc.
 - C. The owner or operator shall calculate and record once per calendar year the facility’s VOC emissions, in tons, using the documented component count and the calculation methods outlined in EPA’s document 453/R-95-017 titled: *Protocol for Equipment Leak Emission Estimates* (Pages 2-10 through 2-38).
 - D. The owner or operator shall calculate and record once per calendar year the facility’s HAP emissions, in tons, using the HAP to VOC ratio determined using the potential-to-emit from the regulated process streams multiplied by the VOC emissions calculated in item "C" above.
- Authority for Requirement: DNR Construction Permit 06-A-583-P2

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: EP-F100

Associated Equipment

Associated Emission Unit ID Numbers: EU-F100
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: None
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-F100
Emission Unit Description: Haul Roads
Raw Material/Fuel: NA
Rated Capacity: NA

Applicable Requirements

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

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

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons 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.

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

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 4.24 ton/yr
Authority for Requirement: DNR Construction Permit 06-A-585-P

Pollutant: Particulate Matter (PM)
Emission Limit(s): 21.7 ton/yr
Authority for Requirement: DNR Construction Permit 06-A-585-P

Operating Requirements with Associated Monitoring and Recordkeeping

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

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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

Operating Limits

- A. All haul roads at this facility shall be paved.
- B. All haul roads shall be vacuum swept and water flushed daily. SIRE may suspend sweeping haul roads if the daily high temperature is below 35 degrees F. The roads need not be swept on days with no traffic.
- C. Clean up spills on the haul roads immediately.
- D. The posted speed limit on haul roads shall be 25 mph or less.

Operating Conditions Monitoring

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

- A. Record any days that the haul roads are not swept due to weather conditions or lack of traffic.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): Not Applicable
 Stack Opening, (inches, dia.): Not Applicable
 Exhaust Flow Rate (acfm): Not Applicable
 Exhaust Temperature (°F): Ambient
 Discharge Style: Not Applicable
 Authority for Requirement: DNR Construction Permit 06-A-585-P

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 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: EP-F110

Associated Equipment

Associated Emission Unit ID Numbers: EU-F110
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: None
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-F110
Emission Unit Description: Wet Cake Storage
Raw Material/Fuel: NA
Rated Capacity: 80 ton/hr

Applicable Requirements

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

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

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 3.5 ton/yr ⁽¹⁾
Authority for Requirement: DNR Construction Permit 17-A-034
⁽¹⁾ Emissions based on maximum capacity.

Pollutant: Total HAP)
Emission Limit(s): 0.04 ton/yr ⁽¹⁾
Authority for Requirement: DNR Construction Permit 17-A-034
⁽¹⁾ Emissions based on maximum capacity.

Operating Requirements with Associated Monitoring and Recordkeeping

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

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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. There are no operating limits at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): Not Applicable
 Stack Opening, (inches, dia.): Not Applicable
 Exhaust Flow Rate (acfm): Not Applicable
 Exhaust Temperature (°F): Not Applicable
 Discharge Style: Open Storage Pad
 Authority for Requirement: DNR Construction Permit 17-A-034

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

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: EP-T61, EP-T62, EP-T63, EP-T64, and EP-T65
Associated Equipment**

Emission Point	Emission Unit Vented through this EP	Emissions Control Equipment ID Number	Emissions Control Equipment Description	Emission Unit Description	Raw Material/Fuel	Rated Capacity (gallons)
EP-T61	EU-T61	CE T61	Internal Floating Roof	Denatured Ethanol Storage Tank	Denatured Ethanol	1,500,000
EP-T62	EU-T62	CE T62	Internal Floating Roof	Denatured Ethanol Storage Tank	Denatured Ethanol	1,500,000
EP-T63	EU-T63	CE T63	Internal Floating Roof	Ethanol Storage Tank	200 Proof Ethanol	200,000
EP-T64	EU-T64	CE T64	Internal Floating Roof	Denaturant Storage Tank	Denaturant	200,000
EP-T65	EU-T65	CE T65	Internal Floating Roof	Ethanol Storage Tank	190 Proof Ethanol	200,000

Applicable Requirements

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

The emissions from these emission points shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC)
 Emission Limit(s): 3.44 ton/yr
 Authority for Requirement: DNR Construction Permits 06-A-586-P2 (EP-T61),
 06-A-587-P2 (EP-T62), 06-A-588-P2 (EP-T63),
 06-A-589-P2 (EP-T64), 06-A-590-P2 (EP-T65)

Pollutant: Total HAP
 Emission Limit(s): 0.16 ton/yr
 Authority for Requirement: DNR Construction Permits 06-A-586-P2, 06-A-587-P2,
 06-A-588-P2, 06-A-589-P2, 06-A-590-P2

New Source Performance Standards (NSPS) Requirements

Emission units EU-T61, EU-T62, EU-T63, EU-T64 and EU-T65 are subject to NSPS 40 CFR Part 60.1 – 60.19, Subpart A for General Provisions; and NSPS 40 CFR Part 60.110b – 60.117b Subpart Kb for Volatile Organic Liquid Storage Vessels for which Construction, Reconstruction, or Modification commenced after July 23, 1984.

Authority for Requirement: 40 CFR Part 60.1 – 60.19, Subpart A
567 IAC 23.1(2)
40 CFR Part 60.110b – 60.117b, Subpart Kb
567 IAC 23.1(2)"ddd"

Operating Requirements with Associated Monitoring and Recordkeeping

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

Unless specified by a federal regulation, all records as required by these permits shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping requirements for these permits shall be:

- A. Denatured Ethanol Storage Tanks EU-T61 and EU-T62 shall only store denatured ethanol.
- B. Ethanol Storage Tank EU-T63 shall only store 200 proof ethanol.
- C. Denaturant Storage Tank EU-T64 shall only store unleaded gasoline.
- D. Ethanol Storage Tank EU-T65 shall only store 190 proof ethanol.
 - 1. The owner or operator shall keep Safety Data Sheets (SDS) of the material stored in Storage Tanks T61, T62, T63, T64, and T65.
- E. The total throughput of denatured ethanol for EU-T61 and EU-T62, combined, shall not exceed 140 million gallons per rolling 12-month period.
 - 1. The owner or operator shall record the combined throughput of denatured ethanol, in gallons, for EU-T61 and EU-T62 on a monthly basis.
 - 2. The owner or operator shall calculate and record the combined throughput of denatured ethanol, in gallons, for EU-T61 and EU-T62 on a rolling 12-month basis.
- F. The total throughput of 200 proof ethanol for EU-T63 shall not exceed 138 million gallons per rolling 12-month period.
 - 1. The owner or operator shall record the throughput of 200 proof ethanol, in gallons, for EU-T63 on a monthly basis.
 - 2. The owner or operator shall calculate and record the throughput of 200 proof ethanol, in gallons, for EU-T63 on a rolling 12-month basis.
- G. The total throughput of unleaded gasoline for EU-T64 shall not exceed 6.25 million gallons per rolling 12-month period.
 - 1. The owner or operator shall record the throughput of unleaded gasoline, in gallons, for EU-T64 on a monthly basis.
 - 2. The owner or operator shall calculate and record the throughput of unleaded gasoline, in gallons, for EU-T64 on a rolling 12-month basis.
- H. The total throughput of 190 proof ethanol for EU-T65 shall not exceed 146 million gallons per rolling 12-month period.
 - 1. The owner or operator shall record the throughput of 190 proof ethanol, in gallons, for EU-T65 on a monthly basis.
 - 2. The owner or operator shall calculate and record the throughput of 190 proof ethanol, in gallons, for EU-T65 on a rolling 12-month basis.
- I. The owner or operator shall comply with the applicable requirements in 40 CFR Part 60, Subpart Kb §60.110b – §60.117b], including those not specifically mentioned in this permit.

1. In accordance with 40 CFR §60.112b(a)(1), the Internal Floating Roofs CE-T61, CE-T62, CE-T63, CE-T64, and CE-T65 shall meet the following specifications:
2. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.
 - i. Each internal floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof:
 1. A foam- or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal). ⁽¹⁾
 2. Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.
 3. A mechanical shoe seal. ⁽²⁾
 - ii. Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface.
 - iii. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use.
 - iv. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.
 - v. Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.
 - vi. Each penetration of the internal floating for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.
 - vii. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.
 - viii. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.
3. The owner or operator shall inspect the Internal Floating Roofs CE-T61, CE-T62, CE-T63, CE-T64, and CE-T65 per the requirements of 40 CFR §60.113b(a).
4. The owner or operator shall comply with the applicable monitoring requirements in 40 CFR §60.116b.

5. Per 40 CFR §60.116b(b), the owner or operator shall keep readily accessible records showing the dimension of Storage Tanks EU-T61,EU-T62, EU-T63, EU-T64, and EU-T65 and an analysis showing the capacity of these vessels. These records shall be kept on-site for the life of the unit.

Authority for Requirement: DNR Construction Permits 06-A-586-P2, 06-A-587-P2, 06-A-588-P2, 06-A-589-P2, 06-A-590-P2

- (1) A liquid-mounted seal means a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank.
- (2) A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and it is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP-T61, EP-T62

Stack Height, (ft, from the ground): 39.5
 Stack Opening, (inches, dia.): 12 (8 vents each)
 Exhaust Flow Rate (acfm): Displacement
 Exhaust Temperature (°F): Ambient
 Discharge Style: Downward
 Authority for Requirement: DNR Construction Permit 06-A-586-P2, 06-A-587-P2

EP-T63, EP-T64, EP-65

Stack Height, (ft, from the ground): 30.5
 Stack Opening, (inches, dia.): 12 (4 vents each)
 Exhaust Flow Rate (acfm): Displacement
 Exhaust Temperature (°F): Ambient
 Discharge Style: Downward
 Authority for Requirement: DNR Construction Permit 06-A-588-P2, 06-A-589-P2, 06-A-590-P2

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

IV. General Conditions

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

G1. Duty to Comply

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

G2. Permit Expiration

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

G3. Certification Requirement for Title V Related Documents

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

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

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

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

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

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

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

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

G10. Recordkeeping Requirements for Compliance Monitoring

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

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

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

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

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

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

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

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

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

2. Excess Emissions Reporting

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

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

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

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

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

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

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

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

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

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

G15. Permit Deviation Reporting Requirements

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

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

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

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

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

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

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that does any of the following:

- i. Correct typographical errors
- ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
- iii. Require more frequent monitoring or reporting by the permittee; or
- iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

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

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

2. Minor Title V Permit Modification.

a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:

- i. Do not violate any applicable requirement;
- ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
- iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
- iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
- v. Are not modifications under any provision of Title I of the Act; and
- vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).

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

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

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

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

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

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

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

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

b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.

c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.

d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.

d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)

e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight

sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

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

G24. Permit Reopenings

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

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

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

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

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

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

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

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

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

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

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

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

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

G25. Permit Shield

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

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

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

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

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

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test

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

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-9526

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

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

G31. Prevention of Air Pollution Emergency Episodes

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

567 IAC 26.1(1)

G32. Contacts List

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

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

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

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

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

Field Office 1

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

Field Office 2

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

Field Office 3

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

Field Office 4

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

Field Office 5

502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-0268

Field Office 6

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

Polk County Public Works Dept.

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

Linn County Public Health

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