

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

Name of Permitted Facility: Absolute Energy LLC
Facility Location: 1372 State Line Rd., Saint Ansgar, IA 50472
Air Quality Operating Permit Number: 13-TV-007R1
Expiration Date: January 1, 2024
Permit Renewal Application Deadline: July 1, 2023

EIQ Number: 92-6948
Facility File Number: 66-10-001

Responsible Official

Name: Mr. Rick Schwarck
Title: President
Mailing Address: 1372 State Line Rd., Saint Ansgar, IA 50472
Phone #: (641) 326-2220

Permit Contact Person for the Facility

Name: Mr. Tyler Schwarck
Title: EHS Technician
Mailing Address: 1372 State Line Rd., Saint Ansgar, IA 50472
Phone #: (641) 326-2220

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 Regulation
CE	control equipment
CEM.....	continuous emission monitor
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP	emission point
EU	emission unit
gr./dscf	grains per dry standard cubic foot
IAC.....	Iowa Administrative Code
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: Absolute Energy LLC

Permit Number: 13-TV-007R1

Facility Description: Industrial Organic Chemicals/Ethanol Production (SIC 2869)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP-S10	EU-P10A	Dryer A	06-A-594-S7
	EU-P10B	Dryer B	
	EU-P10C	Dryer C	
	EU-P10D	Dryer D	
	EU-S10	Ethanol Process	
EP-S20	EU-P20	Grain Receiving, Storage, Handling & Loadout	06-A-595-S4
EP-S30	EU-P30	Grain Hammermilling	06-A-596-S3
EP-S40	EU-P40	Ethanol Production/Fermentation	06-A-597-S5
EP-F60	EU-F60	VOC Equipment Leaks	06-A-602-S4
EP-S70	EU-P70	DDGS Cooling	06-A-598-S7
EP-F80	EU-P80	Cooling Tower	06-A-609-S1
EP-S90	EU-P90	DDGS Loadout	06-A-599-S5
EP-F100	EU-F100	Fugitive Emissions from Internal Plant Roads	06-A-603-S6
EP-S110	EU-P110	Emergency Fire Water Pump	06-A-610-S4
EP-F120A	EU-P120A	1.3 Million Bushel Grain Storage Pile	09-A-646-S2
EP11	EP11	Biomethanator Flare	06-A-600-S3
EP22	EP22	Denatured Ethanol Loadout (Truck & Rail)	06-A-601-S7
T61	T61	Denatured Ethanol Storage Tank #1	06-A-604-S3
T62	T62	Denatured Ethanol Storage Tank #2	06-A-605-S3
T63	T63	200 Proof Ethanol Storage Tank	06-A-606-S3
T64	T64	Denaturant Storage Tank	06-A-607-S4
T64B	T64B	Fuel-Grade Gasoline Storage Tank	13-A-340-S1
T65	T65	190 Proof Ethanol Storage Tank	06-A-608-S3
EP-B10	EU-B10	New Package Boiler 1	17-A-526
EP-B11	EU-B11	New Package Boiler 2	17-A-527

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
GRFUG	Grain Fugitives (Unloading and Loading)
T66	Corrosion Inhibitor Tank
TF-2101	Cook Water Tank
TF-2401	Liquefaction Tank
TF-2402	Liquefaction Tank
TF-2403	Liquefaction Tank
TF-6101	Whole Stillage Tank
TF-6801	Thin Stillage Tank
TF-6810	Syrup Tank
T4	Corn Oil Tank
T5	Corn Oil Tank
BH1	CPV3 Baghouse #1 for the 1.1 MM Bushel Storage Bin & Associated Conveyors
BH2	CPV3 Baghouse #2 for the 1.1 MM Bushel Storage Bin & Associated Conveyors

II. Plant-Wide Conditions

Facility Name: Absolute Energy LLC

Permit Number: 13-TV-007R1

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

Permit Duration

The term of this permit is: Five years from permit issuance

Commencing on: January 2, 2019

Ending on: January 1, 2024

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

Emission Limits

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

Opacity (visible emissions): 40% opacity

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

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

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

Particulate Matter:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed 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 EP-S10, EP-S40, EP-F60, EP-S70, EP-S110, EP22, T61, T62, T63, T64, T64B, and T65.

See Appendix for the link of the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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 unit is EP-S10.

See Appendix for the link of the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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 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 T61, T62, T63, T64, T64B, and T65.

See Appendix for the link of the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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

40 CFR 60 Subpart VV Requirements

This facility is subject to Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006.

Equipment VOC leaks have been accounted for in emission point EP-F60 for the facility.

See Appendix for the link of the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

Authority for Requirements: 40 CFR 60 Subpart VV
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 EP-S110.

See Appendix for the link of the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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 National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The affected unit is EP-S110.

See Appendix for the link of the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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

40 CFR 63 Subpart BBBBBB Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities. The affected units are EP22, EP-F60, and T64B.

See Appendix for the link of the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

Authority for Requirements: 40 CFR 63 Subpart BBBBBB
567 IAC 23.1(4) "eb"

III. Emission Point-Specific Conditions

Facility Name: Absolute Energy LLC

Permit Number: 13-TV-007R1

Emission Point ID Number: EP-S10

Associated Equipment

EU	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	
EU-P10A	Dryer A	CE 10a: Regenerative Thermal Oxidizer	Natural Gas	45 MMBtu/hr	
EU-P10B	Dryer B		Natural Gas	45 MMBtu/hr	
EU-P10C	Dryer C	CE 10b: Regenerative Thermal Oxidizer	Natural Gas	45 MMBtu/hr	
EU-P10D	Dryer D		Natural Gas	45 MMBtu/hr	
EU-S10	Yeast Tank #1	CE 10a: Regenerative Thermal Oxidizer <u>OR</u> CE 10b: Regenerative Thermal Oxidizer	Mash	20,000 gallons	
	Yeast Tank #2		Mash	20,000 gallons	
	MSW Energy Recovery System		NA	NA	
	Flash Tank		Mash	4,500 gallons	
	Slurry Tank #1		Mash	25,000 gallons	
	Slurry Tank #2		Mash	25,000 gallons	
	Beer Column		Ethanol	2,000 gal/min	
	Side Stripper		Ethanol	400 gal/min	
	Rectifier Column		Ethanol	700 gal/min	
	190 Proof Condenser		Ethanol	408 gal/min	
	Molecular Sieves 1-6		Ethanol	372 gal/min	
	Regen Tank		Ethanol	1,240 gallons	
	Centrate Tank		Mash	1,690 gallons	
	Evaporators 1-8		Mash	18,000 ft ²	
	Centrifuge #1		DDGS	400 gal/min	
	Centrifuge #2		DDGS	400 gal/min	
	Centrifuge #3		DDGS	400 gal/min	
	Centrifuge #4		DDGS	400 gal/min	
	Centrifuge #5		DDGS	400 gal/min	
	Centrifuge #6		DDGS	400 gal/min	
	Reflux Tank		Ethanol	1,240 gallons	
	Corn Oil Skid Equipment		Corn Oil	NA	
	Methanator #1		CE 10a: Regenerative Thermal Oxidizer <u>OR</u> CE 10b: Regenerative Thermal Oxidizer <u>OR</u> EP 11: Biomethanor Flare		30,000 gallons
	Methanator #2				30,000 gallons
	Methanator #3				30,000 gallons
	Methanator #4				30,000 gallons

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-594-S7
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

Emission Limit(s): 10.0 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-594-S7
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 8.35 lb/hr; 500 ppmv

Authority for Requirement: DNR Construction Permit 06-A-594-S7
567 IAC 23.3(3)

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 21.22 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-594-S7

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 4.17 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-594-S7

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 19.07 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-594-S7

Pollutant: Acetaldehyde

Emission Limit(s): 0.28 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-594-S7

Pollutant: Single HAP

Emission Limit(s): 0.50 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-594-S7

Pollutant: Total HAPs

Emission Limit(s): 1.60 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-594-S7

Operational Limits & Reporting/Record keeping Requirements

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

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The facility-wide DDGS production shall not exceed 487,500 tons per rolling 12-month period. On a monthly basis, the owner or operator shall:
 - i. Record the amount of DDGS produced, in tons, at this facility in the past month; and
 - ii. Calculate and record the rolling 12-month total amount of DDGS produced, in tons, at this facility.
- B. Each dryer and (regenerative) thermal oxidizer shall combust only natural gas and/or process off-gases. The owner or operator shall keep a record of all fuel types combusted in the dryers and (regenerative) thermal oxidizers.
- C. Each of the (regenerative) thermal oxidizers shall maintain a temperature (3 hour average) during operation of within minus 50 degrees Fahrenheit of the average temperature of the oxidizer recorded during a previous performance test demonstrating compliance with the emission limits, and shall be operated at all times the dryers and/or distillation equipment is being used.
- D. The owner or operator shall keep hourly records of the operating temperatures of each (regenerative) thermal oxidizer, and record all three-hour periods (during actual operations) during which the average temperature of either (regenerative) thermal oxidizer is within minus 50 degrees Fahrenheit of the average temperature of the oxidizer during a previous performance test demonstrating compliance with the emission limits.
- E. The owner or operator shall operate and maintain the (regenerative) thermal oxidizers according to the facility's operation and maintenance plan. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the (regenerative) thermal oxidizers. This log shall include, but is not necessarily limited to:
 - i. The date any inspection and/or maintenance was performed on the (regenerative) thermal oxidizers;
 - ii. Any issues identified during the inspection;
 - iii. Any issues identified during the maintenance activities; and
 - iv. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 06-A-594-S7

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 125
- Stack Opening, (inches, dia.): 121
- Exhaust Flow Rate (acfm): 200,000
- Exhaust Temperature (°F): 310
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 06-A-594-S7

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack Testing:

Pollutant – VOC & HAP

Test Method – see the table below

Pollutant	Frequency	Test Method
VOC ⁽¹⁾	3 years	40 CFR 60, Appendix A, Method 18 or 40 CFR 63, Appendix A, Method 320
HAP ^{(1),(2)}	3 years	40 CFR 60, Appendix A, Method 18 or 40 CFR 63, Appendix A, Method 320

Authority for Requirement: DNR Construction Permit 06-A-594-S7

⁽¹⁾ Stack testing shall be conducted once every three years with a minimum of 6 months between testing. If a stack test exceeds 90% of appropriate emission limitation, then testing shall revert to annual until 3 consecutive tests are less than 90% of the appropriate emissions limitation. Testing of this stack shall be conducted in a manner to verify compliance with all emission limitations with all equipment operating in a worst case scenario.

⁽²⁾ Acrolein, acetaldehyde, formaldehyde, and methanol shall be tested for specifically. With the exception of acrolein, acetaldehyde, formaldehyde, and methanol, any HAP whose emissions are below the detection limit shall be assumed to be zero.

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

Agency Approved Operation & Maintenance Plan Required?

Yes No

Facility Maintained Operation & Maintenance Plan Required?

Yes No

Compliance Assurance Monitoring (CAM) Plan Required?

Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-S20

Associated Equipment

Associated Emission Unit ID Numbers: EU-P20

Emissions Control Equipment ID Number: CE-C20

Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-P20

Emission Unit Description: Grain Receiving, Storage, Handling & Loadout

Raw Material/Fuel: Corn

Rated Capacity: 1,000,000 bushels

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-595-S4
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: PM₁₀

Emission Limit(s): 2.06 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-595-S4

Pollutant: Particulate Matter

Emission Limit(s): 2.06 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-595-S4
567 IAC 23.4(7)

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.
- B. The owner/operator is limited to receiving no more than a facility wide total of 53,571,429 bushels (1,500,000 tons) of grain into the facility via truck and rail combined per rolling 12-month period.

- C. The facility is limited to the loadout of 20 million bushels of grain per rolling 12-month period.

Reporting and Recordkeeping

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall keep records of control equipment inspection and maintenance.
 - B. Calculate on a monthly basis the amount of grain received via truck and rail. On a rolling 12-month basis, maintain the total amount of grain received via truck and rail.
 - C. Calculate on a monthly basis the amount of grain loaded out via truck and rail. On a rolling 12-month basis, maintain the total amount of grain loaded out via truck and rail.
- Authority for Requirement: DNR Construction Permit 06-A-595-S4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 40
 - Stack Opening, (inches, dia.): 48
 - Exhaust Flow Rate (scfm): 48,000
 - Exhaust Temperature (°F): Ambient
 - Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 06-A-595-S4

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

Monitoring Requirements

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

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

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-S30

Associated Equipment

Associated Emission Unit ID Numbers: EU-P30
Emissions Control Equipment ID Number: CE-C30
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-P30
Emission Unit Description: Grain Hammermilling
Raw Material/Fuel: Corn
Rated Capacity: 1,500,000 ton/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): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-596-S3
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: PM₁₀

Emission Limit(s): 0.90 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-596-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.90 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-596-S3
567 IAC 23.4(7)

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.

Reporting and Recordkeeping

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall keep records of control equipment inspection and maintenance.

Authority for Requirement: DNR Construction Permit 06-A-596-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40

Stack Opening, (inches, dia.): 40

Exhaust Flow Rate (scfm): 21,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-596-S3

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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-P40

Emissions Control Equipment ID Number: CE-C40

Emissions Control Equipment Description: CO₂ Scrubber

Emission Unit vented through this Emission Point: EU-P40

Emission Unit Description: Ethanol Production/Fermentation

Raw Material/Fuel: Grain Slurry

Rated Capacity: 17,123.29 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-597-S5
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: PM₁₀

Emission Limit(s): 0.45 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-597-S5

Pollutant: Particulate Matter

Emission Limit(s): 0.45 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-597-S5
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 12.84 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-597-S5

Pollutant: Acetaldehyde

Emission Limit(s): 1.64 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-597-S5

Pollutant: Single HAP
Emission Limit(s): 0.38 lb/hr⁽²⁾
Authority for Requirement: DNR Construction Permit 06-A-597-S5

⁽²⁾ Emission limit applies to all single HAP except Acetaldehyde. The specific Individual HAP are primarily acrolein, formaldehyde, and methanol. The emission limit applies to each individual HAP separately and does not represent the sum of these three HAPs.

Pollutant: Total HAPs
Emission Limit(s): 2.32 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-597-S5

Operational Limits & Requirements

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

Operating Limits

- A. Fermentation Scrubber (CE-C40) shall maintain an average pressure drop across the wet scrubber that is between 1 and 5 inches water column based on a 24-hour averaging period. Absolute Energy shall establish an alarm setting for the purpose of initiating corrective action based on a pressure drop across the wet scrubber of less than 1 inch water column or a pressure drop across the wet scrubber of greater than 5 inches water column.
- B. Fermentation Scrubber (CE-C40) shall have a minimum scrubber liquid (water) flow rate which is calculated as 90 percent of the total liquid flow rate at the inlet to the wet scrubber measured during a previous performance test demonstrating compliance with all applicable emission limitations.
- C. Any additive added to the scrubber liquid during a compliance test to enhance the efficiency of the scrubber shall be added at a rate greater than or equal to the rate recorded during a previous performance test that demonstrated compliance with all applicable emission limitations.
- D. The owner or operator shall inspect and maintain the control equipment according to manufacturer's recommendations.
- E. Total ethanol production shall not exceed 150 million gallons per rolling twelve (12) month period.

Reporting and Recordkeeping

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. Record the scrubber pressure drop on a continuous basis. On those days when there is an alarm for the pressure drop reaching less than 1 inch water column or greater than 5 inches water column, calculate and record the average pressure drop across the scrubber based on a 24-hour average. This requirement shall not apply on the days that the scrubber is not in operation. If the pressure drop deviates outside the range required, then record the time, date and actions taken to correct the situation and when the pressure drop is back in the average pressure drop range required.

- B. Record the scrubber liquid (water) flow rate on a continuous basis. If the flow rate deviates below the minimum flow rate required (i.e., 90% of the flow rate during a previous performance test that demonstrated compliance), 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. Record the rate of additive added (additive feed rate) to the scrubber liquid on a continuous basis. If the additive feed rate deviates below the rate required (i.e., additive feed rate during a previous performance test that demonstrated compliance), then record the time, date and actions taken to correct the situation and also when the additive feed rate is greater than or equal to the required additive feed rate.
- D. Maintain onsite a copy of the previous performance tests for each scrubber operating scenario detailing scrubber pressure drop, scrubber liquid flow rate, and additive feed rate measured during each performance test, which demonstrated compliance with the emission limits requirements in this permit.
- E. The owner or operator shall keep records of control equipment inspections and repairs.
- F. The owner or operator shall determine the cumulative amount of anhydrous ethanol produced on a rolling 12-month basis for each month of operation.

Authority for Requirement: DNR Construction Permit 06-A-597-S5

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): 11,000

Exhaust Temperature (°F): 75

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-597-S5

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack Testing:

Pollutant – Single HAP and Total HAPs

Test Method – see the table below

Pollutant	Frequency	Test Method
Acetaldehyde ^{(1),(2),(3)}	3 years	40 CFR 60, Appendix A, Method 18 or 40 CFR 63, Appendix A, Method 320
Single HAP ^{(1),(2),(3)}	3 years	40 CFR 60, Appendix A, Method 18 or 40 CFR 63, Appendix A, Method 320
Total HAP ^{(1),(2)}	3 years	40 CFR 60, Appendix A, Method 18 or 40 CFR 63, Appendix A, Method 320

⁽¹⁾These tests shall be conducted once every three years during the months of June, July, or August and conducted in a manner to verify compliance with all emission limitations with all equipment operating in a worst case scenario (highest production rate, syrup rate, etc.).

⁽²⁾Stack testing shall be conducted once every three years with a minimum of 6 months between testing. If a stack test exceeds 90% of appropriate emission limitation, then testing shall revert to annual until 4 consecutive tests are less than 90% of the appropriate emissions limitation. Testing of this stack shall be conducted in a manner to verify compliance with all emission limitations with all equipment operating in a worst case scenario.

⁽³⁾Acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically. With the exception of acrolein, acetaldehyde, formaldehyde and methanol, any HAP whose emissions are below the detection limit shall be assumed to be zero.

Authority for Requirement: DNR Construction Permit 06-A-597-S5

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)

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

Emission Unit vented through this Emission Point: EU-F60

Emission Unit Description: VOC Equipment Leaks

Raw Material/Fuel: VOC Fugitive

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): 7.71 ton/yr

Authority for Requirement: DNR Construction Permit 06-A-602-S4

Pollutant: Single HAP

Emission Limit(s): 0.01 ton/yr

Authority for Requirement: DNR Construction Permit 06-A-602-S4

Pollutant: Total HAPs

Emission Limit(s): 0.05 ton/yr

Authority for Requirement: DNR Construction Permit 06-A-602-S4

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall follow the applicable standards of NSPS Subpart VV, 40 CFR 60.480 through 40 CFR 60.489.
- B. The owner or operator shall follow the applicable standards and requirements of Subpart BBBBBB, 40 CFR 63.11080 through 40 CFR 63.11100 for equipment leaks.

Reporting and Recordkeeping

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall count and document the number and types of components used at the plant. Components include but are not limited to valves, pumps, compressor seals, flanges, etc. The company shall modify the component count whenever the number of components change.
- B. The owner or operator shall determine and document the concentration of all Individual HAP and Total HAP for each component in weight percent. The company shall modify the concentration if and whenever it changes.
- C. The owner or operator shall calculate and record the annual VOC, Individual HAP, and Total HAP emissions based on the documented component count and Single HAP and Total HAP concentration in the equipment (components). The owner or operator shall update the annualized VOC, Individual HAP and Total HAP emission calculations as the component count or concentration varies. Emission factors and estimation methods shall be based on EPA document 453/R-95-017 entitled Protocol for Equipment Leak Emission Estimates.
- D. The owner or operator shall comply with all reporting, notification, and recordkeeping requirements as specified 40 CFR Part 60 Subpart VV- Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry, specifically §60.486 and §60.487.
- E. The owner or operator shall comply with all reporting, notification, and recordkeeping requirements as specified 40 CFR Part 60 Subpart A-General Provisions §§60.1 through 60.19.
- F. The owner or operator shall comply with all applicable reporting, notification, and recordkeeping requirements as specified 40 CFR Part 63 Subpart BBBB- National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities, specifically §63.11093, §63.11094, and §63.11095.
- G. The owner or operator shall comply with the requirements of 40 CFR Part 63 Subpart A-General Provisions, as specified 40 CFR Part 63 Subpart BBBB §63.11098.

Authority for Requirement: DNR Construction Permit 06-A-602-S4
567 IAC 23.1(2)"nn"
567 IAC 23.1(4)"eb"

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-S70

Associated Equipment

Associated Emission Unit ID Numbers: EU-P70

Emissions Control Equipment ID Number: CE-C70

Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-P70

Emission Unit Description: DDGS Cooler

Raw Material/Fuel: DDGS

Rated Capacity: 55.65 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-598-S7
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: PM₁₀

Emission Limit(s): 0.64 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-598-S7

Pollutant: Particulate Matter

Emission Limit(s): 0.64 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-598-S7
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 8.35 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-598-S7

Pollutant: Acetaldehyde

Emission Limit(s): 0.14 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-598-S7

Pollutant: Single HAP
Emission Limit(s): 0.20 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-598-S7

Pollutant: Total HAPs
Emission Limit(s): 0.55 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-598-S7

Operational Limits & Reporting/Record keeping Requirements

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

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The facility-wide DDGS production shall not exceed 487,500 tons per rolling 12-month period. On a monthly basis, the owner or operator shall:
 - i. Record the amount of DDGS produced, in tons, at this facility in the past month; and
 - ii. Calculate and record the rolling 12-month total amount of DDGS produced, in tons, at this facility.
- B. The owner or operator shall operate and maintain the baghouse according to the facility's operation and maintenance plan. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the baghouse. This log shall include, but is not necessarily limited to:
 - i. The date any inspection and/or maintenance was performed on the baghouse;
 - ii. Any issues identified during the inspection;
 - iii. Any issues identified during the maintenance activities; and
 - iv. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 06-A-598-S7

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 73
Stack Opening, (inches, dia.): 48
Exhaust Flow Rate (scfm): 50,000
Exhaust Temperature (°F): 85
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 06-A-598-S7

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack Testing:

Pollutant – HAP

Test Method – see the table below

Pollutant	Frequency	Test Method
HAP ^{(1),(2),(3)}	3 years	40 CFR 60, Appendix A, Method 18 or 40 CFR 63, Appendix A, Method 320

⁽¹⁾ Acrolein, acetaldehyde, formaldehyde, and methanol shall be tested for specifically. With the exception of acrolein, acetaldehyde, formaldehyde, and methanol, any HAP whose emissions are below the detection limit shall be assumed to be zero.

⁽²⁾ These tests shall be conducted once every three years during the months of June, July, or August and conducted in a manner to verify compliance with all emission limitations with all equipment operating in a worst case scenario (highest production rate, syrup rate, etc.).

⁽³⁾ Stack testing shall be conducted once every three years with a minimum of 6 months between testing. If a stack test exceeds 90% of appropriate emission limitation, then testing shall revert to annual until 3 consecutive tests are less than 90% of the appropriate emissions limitation. Testing of this stack shall be conducted in a manner to verify compliance with all emission limitations with all equipment operating in a worst case scenario.

Authority for Requirement: DNR Construction Permit 06-A-598-S7

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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-F80

Associated Equipment

Associated Emission Unit ID Numbers: EU-P80

Emission Unit vented through this Emission Point: EU-F80

Emission Unit Description: Cooling Tower

Raw Material/Fuel: Cooling Water

Rated Capacity: 50,000 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: PM₁₀

Emission Limit(s): 2.5 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-609-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.5 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-609-S1

Operational Limits & Requirements

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

Operating Limits

- A. The Total Dissolved Solids (TDS) level shall not exceed 2,000 mg/L for any single sampling/testing event.
- B. The owner or operator shall test TDS on a monthly basis.
- C. The biocide or any other chemical added to the cooling tower shall contain no VOC containing materials.
- D. The biocide or any other chemical added to the cooling tower shall contain no HAP containing materials.

Reporting and Recordkeeping

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall keep records of the results of the monthly TDS sampling/testing available.
- B. The owner or operator shall keep readily available all MSDS and any other type of documents verifying that the material added to the cooling towers does not contain any VOC or HAP containing material.

Authority for Requirement: DNR Construction Permit 06-A-609-S1

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-P90

Emissions Control Equipment ID Number: CE-C90

Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-P90

Emission Unit Description: DDGS and Grain Loadout

Raw Material/Fuel: DDGS and Grain

Rated Capacity: 55.65 ton/hr for DDGS; 65 ton/hr for Grain Loadout

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-599-S5
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: PM₁₀

Emission Limit(s): 0.39 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-599-S5

Pollutant: Particulate Matter

Emission Limit(s): 0.39 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-599-S5
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.83 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-599-S5

Pollutant: Acetaldehyde

Emission Limit(s): 0.08 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-599-S5

Pollutant: Single HAP
Emission Limit(s): 0.20 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-599-S5

Pollutant: Total HAPs
Emission Limit(s): 0.41 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-599-S5

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.
- B. Plant-wide, DDGS production shall not exceed 487,500 tons per rolling twelve (12) month period.
- C. The facility is limited to the loadout/shipping of 20 million bushels of grain per rolling 12-month period.

Reporting and Recordkeeping

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall keep records of control equipment inspection and maintenance.
- B. The owner or operator shall determine the cumulative amount of DDGS produced on a rolling 12-month basis for each month of operation.
- C. Calculate on a monthly basis the amount of grain loaded out via truck and rail. On a rolling 12-month basis, maintain the total amount of grain loaded out via truck and rail.

Authority for Requirement: DNR Construction Permit 06-A-599-S5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40
Stack Opening, (inches, dia.): 26
Exhaust Flow Rate (acfm): 9,100
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 06-A-599-S5

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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-F100

Associated Equipment

Associated Emission Unit ID Numbers: EU-F100

Emission Unit vented through this Emission Point: EU-F100
Emission Unit Description: Fugitive Emissions from Internal Plant Roads
Raw Material/Fuel: Fugitive Dust
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: Opacity

Emission Limit(s): No Visible Emissions at Property Line

Authority for Requirement: DNR Construction Permit 06-A-603-S6
567 IAC 23.3(2) "c"

Pollutant: PM₁₀

Emission Limit(s): 7.32 ton/yr

Authority for Requirement: DNR Construction Permit 06-A-603-S6

Pollutant: Particulate Matter (PM)

Emission Limit(s): 36.60 ton/yr

Authority for Requirement: DNR Construction Permit 06-A-603-S6

Operational Limits & Requirements

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

Operating Limits

- A. The haul roads shall be paved prior to receiving grain at the facility.
- B. Truck traffic on the haul road shall not exceed 10 mph. The speed limit shall be posted on the haul road.
- C. Any spills on the road shall be cleaned up immediately.
- D. Truck traffic emissions on the paved road shall be controlled by water flushing (except as noted in condition D4 as described below and sweeping as described in condition C in the section of Reporting and Recordkeeping) once per day. The water spray rate shall be a minimum of 0.23 gallons per square yard.
 - i. If water flushing followed by sweeping cannot be accomplished because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F (1.7°C) only sweeping is required. Water flushing and/or sweeping is not required for days of inclement weather.
 - ii. Water flushing and sweeping need not occur when a rain gauge located at the site

- indicates that at least 0.2 inches of precipitation (water equivalent) has occurred within the preceding 24-hr time period.
- iii. Water flushing and sweeping need not occur if the plant does not receive any truck traffic that day (i.e. on a weekend).
 - iv. Water flushing need not occur provided that the haul road emissions do not exceed 27.5 tons PM for the last twelve months. This shall be calculated using the formula in Item D in the section of Reporting and Recordkeeping below. In the event that emissions exceed 27.5 tons for the last twelve months the plant shall be required to commence daily water flushing with daily sweeping until PM emissions fall below 27.5 tons for the last twelve months.

Reporting and Recordkeeping

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. Record the frequency of sweeping performed on the haul roads. If the roads are not swept due to weather, a written record must be kept on site outlining the conditions.
- B. Performance silt load testing on the haul road surface shall be completed on a quarterly basis. For each performance test, silt load sampling shall be done at a minimum of 3 different locations. Performance testing shall be completed prior to water flushing and/or sweeping.
- C. The plant shall maintain a log for the haul roads that show the following:
 - i. The silt content of the road for that month based on quarterly testing;
 - ii. The date of performance (silt load) testing;
 - iii. The vehicle miles traveled (VMT) for that month;
 - iv. Each day record whether or not water flushing and sweeping was accomplished. For days without water flushing and/or sweeping record the circumstances (i.e. weather condition, equipment malfunction);
 - v. The amount of water applied and the areas treated; and,
 - vi. The operator's initials.
- D. The owner or operator shall calculate and record the monthly haul road emissions according to the following formula, which uses the equation from AP-42 Section 13.2.1 Paved Roads (Revised January 2011), the empirical constants, and assumes a mean vehicle weight of 27.18 tons.

$$E = k \times (sL)^{0.91} \times W^{1.02}$$

Where:

E = particulate emission factor (having units matching the units of k),
 k = particle size multiplier for particle size range and units of interest (see below),
 sL = road surface silt loading (grams per square meter) (g/m²), and
 W = average weight (tons) of the vehicles traveling the road.

Particle size multiplier: K_{PM}=0.011 lb/VMT; K_{PM10}=0.0022 lb/VMT

- E. The owner or operator shall update monthly the twelve-month rolling total of PM and PM10 emissions by adding up the calculated monthly emissions for the previous twelve months. The plant shall notify DNR immediately if the twelve-month rolling total exceeds 36.60 tons PM or 7.32 tons of PM10.

F. The owner/operator shall record the number of trucks that load/unload material on a monthly basis. Based on the number of trucks the total Vehicle Miles Traveled (VMT) shall be calculated for that month.

Authority for Requirement: DNR Construction Permit 06-A-603-S6

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-S110

Associated Equipment

Associated Emission Unit ID Numbers: EU-P110

Emission Unit vented through this Emission Point: EU-P110

Emission Unit Description: Emergency Fire Water Pump

Raw Material/Fuel: Diesel

Rated Capacity: 360 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-610-S4
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: PM₁₀

Emission Limit(s): 0.16 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-610-S4

Pollutant: Particulate Matter

Emission Limit(s): 0.16 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-610-S4

Pollutant: Particulate Matter

Emission Limit(s): 0.54 g/kW-hr (0.40 g/hp-hr)

Authority for Requirement: DNR Construction Permit 06-A-610-S4
567 IAC 23.1(2)"yyy"
40 CFR 60 Subpart III

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 0.74 lb/hr; 500 ppmv

Authority for Requirement: DNR Construction Permit 06-A-610-S4
567 IAC 23.3(3)

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 4.15 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-610-S4

Pollutant: Non-methane Hydrocarbons (NMHC) + NO_x
Emission Limit(s): 10.5 g/kW-hr (7.8 g/hp-hr)
Authority for Requirement: DNR Construction Permit 06-A-610-S4
567 IAC 23.1(2)"yyy"
40 CFR 60 Subpart III

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.16 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-610-S4

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 0.64 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-610-S4

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 3.5 g/kW-hr (2.6 g/hp-hr)
Authority for Requirement: DNR Construction Permit 06-A-610-S4
567 IAC 23.1(2)"yyy"
40 CFR 60 Subpart III

Operational Limits & Requirements

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

Operating Limits

- A. This unit shall be operated a maximum of 300 hours per twelve month rolling period.
- B. Beginning October 1, 2010, diesel fuel fired in this engine shall be limited to a maximum sulfur content of 15 ppm and a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume per 40 CFR§80.510.
- C. Per 40 CFR§60.4207, owners and operators of pre-2011 model year diesel generators/engines subject to NSPS Subpart IIII may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of 40 CFR§80.510(a) or CFR§80.510(b) beyond the dates required, for the purpose of using up existing fuel inventories.
- D. The operation of this unit for maintenance checking and readiness testing shall not exceed 100 hours per year.
- E. This unit shall not be operated for reasons other than maintenance checks, readiness testing, and emergency situations.
- F. A non-resettable hour meter must be installed to track the number of hours this unit operates.
- G. Any other operating limits not listed here but are part of 40 CFR Part 60 Subpart IIII shall be maintained also.

Reporting and Recordkeeping

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. Record each month the total hours of operation for this engine, EU-P110, and the reason the engine was operated. Calculate and record the rolling twelve-month total hours of operation.
- B. Maintain records of the compliance demonstration onsite (e.g., manufacturer's provided emissions certification).
- C. The owner or operator of this engine shall follow the monitoring requirements of 40 CFR§60.4209.
- D. The owner or operator of this engine shall follow the compliance requirements of 40 CFR§60.4211.
- E. The owner or operator of this engine shall follow the notification, reporting, and recordkeeping requirements of 40 CFR§60.4214.

Authority for Requirement: DNR Construction Permit 06-A-610-S4
567 IAC 23.1(2)"yyy"
567 IAC 23.1(4)"cz"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 8
Stack Opening, (inches, dia.): 3
Exhaust Flow Rate (acfm): 800
Exhaust Temperature (°F): 660
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 06-A-610-S4

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-F120A

Associated Equipment

Associated Emission Unit ID Numbers: EU-P120A

Emissions Control Equipment ID Number: C120A

Emissions Control Equipment Description: Impervious Cover

Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-P120A

Emission Unit Description: 1.3 Million Bushel Grain Storage Pile

Raw Material/Fuel: Grain

Rated Capacity: 1,300,000 bushels

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 09-A-646-S2
567 IAC 23.3(2) "d"

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

Pollutant: PM₁₀

Emission Limit(s): 3.48 lb/hr

Authority for Requirement: DNR Construction Permit 09-A-646-S2

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 09-A-646-S2
567 IAC 23.4(7)

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall minimize the amount of dust emissions generated from the unloading of trucks, conveying of grain, dropping grain onto the pile, and the pile.
- B. The owner or operator shall minimize the amount of dust emissions generated from the removal of grain from the pile, the depositing of the grain onto the auger system, and the dropping of the grain from the conveying system into the trucks.

- C. The owner or operator is limited to storing no more than 1,300,000 bushel per rolling 12-month period at the grain storage pile for EU-P120A.

Reporting and Recordkeeping

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall document and put in place measures to minimize dust emissions from unloading, conveying, dropping onto the pile, the pile, removing grain from the pile, conveying removed grain, and filling trucks with grain removed from the pile.
- B. The owner or operator shall calculate on a monthly basis the amount of grain received via truck that is stored at the 1,300,000 bushel grain storage pile. The owner or operator shall maintain the total amount of grain received on a rolling 12-month basis in bushels for the 1,300,000 bushel storage pile.

Authority for Requirement: DNR Construction Permit 09-A-646-S2

Monitoring Requirements

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

Stack Testing:

Pollutant – Opacity
Testing Frequency

Pollutant	Frequency	Test Run Time	Test Method
Opacity (Filling) ⁽¹⁾	Once per calendar year ⁽¹⁾	1 hour	Observation Stack Test ⁽¹⁾ , Record Keeping
Opacity (Removing) ⁽²⁾	Once per calendar year ⁽¹⁾	1 hour	Observation Stack Test ⁽²⁾ , Record Keeping

⁽¹⁾Testing shall be completed within 14 days of initial start of filling the grain to the temporary grain storage pile. Observation shall be completed at the unloading area for both hopper truck(s) and straight truck(s), the discharge point from the conveyor to the storage pile, and the emissions off the storage pile as the grain is dropped onto the storage pile. Testing shall be completed once per calendar year with a minimum of six (6) months between tests.

⁽²⁾Testing shall be completed within 14 days of initial start of removing the grain from the temporary grain storage pile. Observation shall be completed at the picking up of the grain, dumping grain on the auger, and the auger emptying into the truck. Testing shall be completed once per calendar year with a minimum of six (6) months between tests.

Test Method – 40 CFR 60, Appendix A, Method 9

Authority for Requirement: DNR Construction Permit 09-A-646-S2

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: EP11

Associated Equipment

Associated Emission Unit ID Numbers: EP11
Emissions Control Equipment ID Number: EP11
Emissions Control Equipment Description: Flare
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EP11
Emission Unit Description: Biomethanator Flare
Raw Material/Fuel: Natural Gas/Process Gas
Rated Capacity: 6.4 MMBtu/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-600-S3
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: PM₁₀

Emission Limit(s): 0.03 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-600-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.03 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-600-S3
567 IAC 23.3(2) "a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 0.01 lb/hr; 2.5 lb/MMBtu; 500 ppmv

Authority for Requirement: DNR Construction Permit 06-A-600-S3
567 IAC 23.3(3)

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 0.44 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-600-S3

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.33 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-600-S3

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 2.37 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-600-S3

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.
- B. The methanator shall be controlled by either the biomethanator flare or the dryers. The methanator shall at no time operate uncontrolled.
- C. The biomethanator flare (EP 11) shall:
 - i. Be designed for and operated with no visible emissions except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours.
 - ii. Be operated with a flame present prior to combustion. The presence of a flare flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.
 - iii. Be designed to ensure smokeless operation.
- D. The flare shall be limited to operating 3,500 hours per rolling 12-month period.

Reporting and Recordkeeping

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall maintain a record of all inspections / maintenance and any action resulting from the inspection / maintenance of the process and control equipment for EP 11.
- B. The owner or operator shall maintain records that the biomethanator flare (EP 11) complies with the specifications in Condition C of the Operating Limits above.
- C. On a monthly basis, the owner or operator shall keep records of the number hours the biomethanator flare (EP 11) was operated and calculate and record rolling 12-month totals.

Authority for Requirement: DNR Construction Permit 06-A-600-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 34
- Stack Opening, (inches, dia.): 24
- Exhaust Flow Rate (acfm): 6,400
- Exhaust Temperature (°F): 1,800
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 06-A-600-S3

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP22

Associated Equipment

Associated Emission Unit ID Numbers: EP22

Emissions Control Equipment ID Number: EP22

Emissions Control Equipment Description: Enclosed Flare

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP22	EP22	Product Loadout to Truck	Denatured ethanol, undenatured ethanol, or flexible fuel	480 gal/min
		Product Loadout to Rail	Denatured ethanol, or undenatured ethanol	2,000 gal/min
		Vapor Recovery System	Natural Gas	42.48 MMBtu

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-601-S7
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: PM₁₀

Emission Limit(s): 0.40 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-601-S7

Pollutant: Particulate Matter

Emission Limit(s): 0.40 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-601-S7
567 IAC 23.3(2) "a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 06-A-601-S7
567 IAC 23.3(3)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 24.21 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-601-S7

Pollutant: Single HAP
Emission Limit(s): 0.87lb/hr.⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-601-S7

⁽²⁾Excludes Acetaldehyde, see operating requirements with associated monitoring and recordkeeping part N below.

Pollutant: Total HAPs
Emission Limit(s): 1.36 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-601-S7

Operating Requirements with Associated Monitoring and Recordkeeping

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

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall operate, inspect, and maintain the process equipment, VOC collection system, and Vapor Recovery System Flare (EP 22) according to manufacturer's specifications.
- B. The owner or operator shall maintain a record of all inspections / maintenance and any action resulting from the inspection / maintenance of the process equipment, VOC collection system, and Vapor Recovery System Flare (EP 22)
- C. The facility shall operate the VOC collection system and Vapor Recovery System Flare (EP 22) associated with this operation at all times that product (denatured and undenatured ethanol and flexible fuels⁽¹⁾) is being loaded out in this emission unit.
- D. This facility shall not load flexible fuels⁽¹⁾ into rail cars. At the time of the issuance of this permit there are physical limitations that prevent this from occurring.
- E. The Vapor Recovery System Flare (EP 22) shall:
 - i. Be designed for and operated with no visible emissions except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours.
 - ii. Be operated with a flame present prior to combustion. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.
 - iii. Be designed to ensure smokeless operation.
- F. The owner or operator shall maintain records that The Vapor Recovery System Flare (EP 22)⁽²⁾ complies with the specifications in Condition E above.
- G. The Vapor Recovery System Flare (EP 22) shall be limited to operating 4,500 hours per rolling 12-month period.
- H. On a monthly basis, the owner or operator shall keep records of the number hours the Vapor Recovery System Flare (EP 22) was operated. Calculate and record rolling 12-month totals.
- I. Plant-wide total loadout (denatured and undenatured ethanol and flexible fuels⁽¹⁾) for trucks and railcars shall not exceed 150,000,000 gallons per 12-month rolling period.
- J. The owner or operator shall determine and record the individual and cumulative amount of material (denatured and undenatured ethanol and flexible fuels⁽¹⁾) loaded out on a rolling 12-month basis for each month of operation.

- K. The total amount of flex fuel loaded at the truck loadout shall not exceed 51,500,000 gallons per twelve-month rolling period.
- L. The owner or operator shall determine and record the amount of product flex fuel loaded through the truck loadout on a rolling 12-month basis for each month of operation.
- M. The maximum denaturant usage at the facility shall not exceed 7,500,000 gallons per twelve (12) month period rolled monthly.
- N. The denaturant used shall not contain any acetaldehyde.
- O. The maximum single HAP (except acetaldehyde) content of any denaturant used shall not exceed 2.82 pounds of HAP per gallon of denaturant.
- P. The maximum total HAP content of any denaturant used shall not exceed 4.1 pounds of HAP per gallon of denaturant.
- Q. The owner or operator shall retain Material Safety Data Sheets (MSDS) or Safety Data Sheets (SDS) showing the content of each HAP in the material for all materials handled at this loadout process. The owner or operator shall record the HAP content in pounds per gallon in the denaturant or gasoline loaded out from this emission unit (used in products or loaded out directly).
- R. The facility shall comply with the applicable standards of Subpart BBBBBB, 40 CFR 63.11080 through 40 CFR 63.11100 for loading racks (Table 2) when loading out flexible fuels⁽¹⁾.
- S. The owner or operator shall submit the applicable notifications as required in 40 CFR 63.11093 for Subpart BBBBBB.
- T. The owner or operator shall keep records as required in 40 CFR 63.11094 and reports as required in 40 CFR 63.11095 for Subpart BBBBBB.

Authority for Requirement: DNR Construction Permit 06-A-601-S7
567 IAC 23.1(4) "eb"

⁽¹⁾ For this permit flexible fuels refers to a blend of gasoline and ethanol with a minimum of 68% ethanol and a maximum of 85% ethanol (E85).

⁽²⁾Construction permit stated "Ethanol Loadout Flare (CE50)" which was incorrect.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35

Stack Opening, (inches, dia.): 96

Exhaust Flow Rate (scfm): 500

Exhaust Temperature (°F): 1,400

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-601-S7

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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 Numbers: T61 and T62

Associated Equipment

Associated Emission Unit ID Numbers: T61; T62

Emissions Control Equipment ID Number: T61; T62

Emissions Control Equipment Description: Internal Floating Roof

EP	EU	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
T61	T61	Final Product Storage Tank #1	Denatured or Undenatured Ethanol	1,500,000 gallons	06-A-604-S3
T62	T62	Final Product Storage Tank #2		1,500,000 gallons	06-A-605-S3

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.

There are no applicable emission limits for these emission points at this time.

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR §60.112b(a)(1) and inspect as required in 40 CFR §60.113b(a).
- B. This tank shall be used to store only denatured ethanol or undenatured ethanol.

Reporting and Recordkeeping

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of the source.
- B. The owner or operator shall follow the applicable recordkeeping and reporting standards of Subpart Kb, 40 CFR §60.115b through §60.116b.

Authority for Requirement: DNR Construction Permits 06-A-604-S3; 06-A-605-S3
567 IAC 23.1(2)"ddd"

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Exhaust Flow Rate (scfm): Ambient

Exhaust Temperature (°F): Breathing Loss

Authority for Requirement: DNR Construction Permits 06-A-604-S3; 06-A-605-S3

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: T63

Associated Equipment

Associated Emission Unit ID Numbers: T63

Emissions Control Equipment ID Number: T63

Emissions Control Equipment Description: Internal Floating Roof

Emission Unit vented through this Emission Point: T63

Emission Unit Description: 200 Proof Ethanol Storage Tank

Raw Material/Fuel: 200 Proof Ethanol

Rated Capacity: 200,000 gallons

Applicable Requirements

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

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

There are no applicable emission limits at this time.

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR §60.112b(a)(1) and inspect as required in 40 CFR §60.113b(a).
- B. This tank shall be used to store only 200-proof anhydrous ethanol.

Reporting and Recordkeeping

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of the source.
- B. The owner or operator shall follow the applicable recordkeeping and reporting standards of Subpart Kb, 40 CFR §60.115b through §60.116b.

Authority for Requirement: DNR Construction Permit 06-A-606-S3
567 IAC 23.1(2)"ddd"

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Exhaust Flow Rate (scfm): Ambient

Exhaust Temperature (°F): Breathing Loss

Authority for Requirement: DNR Construction Permit 06-A-606-S3

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: T64

Associated Equipment

Associated Emission Unit ID Numbers: T64

Emissions Control Equipment ID Number: T64

Emissions Control Equipment Description: Internal Floating Roof

Emission Unit vented through this Emission Point: T64

Emission Unit Description: Denaturant Storage Tank

Raw Material/Fuel: Denaturant

Rated Capacity: 200,000 gallons

Applicable Requirements

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

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

There are no applicable emission limits at this time.

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR §60.112b(a)(1) and inspect as required in 40 CFR §60.113b(a).
- B. This tank shall be used to store only denaturant (unleaded gasoline).
- C. Plant-wide denaturant (unleaded gasoline) used in the production of denatured ethanol shall be limited to a maximum of 7.5 million gallons per twelve month rolling period.

Reporting and Recordkeeping

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of the source.
- B. The owner or operator shall follow the applicable recordkeeping and reporting standards of Subpart Kb, 40 CFR §60.115b through §60.116b.
- C. The owner or operator shall keep records of the amount of denaturant (unleaded gasoline) used in the production of denatured ethanol and update the twelve month rolling total on a monthly basis.

Authority for Requirement: DNR Construction Permit 06-A-607-S4
567 IAC 23.1(2)"ddd"

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Exhaust Flow Rate (scfm): Ambient

Exhaust Temperature (°F): Breathing Loss

Authority for Requirement: DNR Construction Permit 06-A-607-S4

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: T64B

Associated Equipment

Associated Emission Unit ID Numbers: T64B

Emissions Control Equipment ID Number: T64B

Emissions Control Equipment Description: Internal Floating Roof

Emission Unit vented through this Emission Point: T64B

Emission Unit Description: Fuel-grade Gasoline Storage Tank

Raw Material/Fuel: Fuel-grade Gasoline

Rated Capacity: 20,305 gallons

Applicable Requirements

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

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

There are no applicable emission limits at this time.

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR 60.112b(a)(1) and inspect as required in 40 CFR 60.113b(a).
- B. The facility shall comply with the applicable standards of Subpart BBBBBB, 40 CFR 63.11080 through 40 CFR 63.11100 for gasoline storage tanks.
- C. This tank shall be used to store only fuel-grade gasoline.⁽¹⁾
- D. Tank throughput shall be limited to a maximum of 1.0 million gallons per twelve- month rolling period.

⁽¹⁾ For this permit gasoline refers to gasoline or a blend of gasoline and up to 85% ethanol (E85) (i.e., flexible fuel).

Reporting and Recordkeeping

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of the source.
- B. The owner or operator shall follow the applicable recordkeeping and reporting standards of Subpart Kb, 40 CFR 60.115b through 60.116b.
- C. The owner or operator shall keep records as required in 40 CFR 63.11094 and reports as required in 40 CFR 63.11095 for Subpart BBBB.
- D. The owner or operator shall keep records of the amount of fuel-grade gasoline received and update the twelve- month rolling total on a monthly basis.

Authority for Requirement: DNR Construction Permit 13-A-340-S1
567 IAC 23.1(4) "eb"
567 IAC 23.1(2)"ddd"

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Exhaust Flow Rate (scfm): Ambient

Exhaust Temperature (°F): Breathing Loss

Authority for Requirement: DNR Construction Permit 13-A-340-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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: T65

Associated Equipment

Associated Emission Unit ID Numbers: T65

Emissions Control Equipment ID Number: T65

Emissions Control Equipment Description: Internal Floating Roof

Emission Unit vented through this Emission Point: T65

Emission Unit Description: 190 Proof Ethanol Tank

Raw Material/Fuel: 190 Proof Ethanol

Rated Capacity: 200,000 gallons

Applicable Requirements

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

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

There are no applicable emission limits at this time.

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR §60.112b(a)(1) and inspect as required in 40 CFR §60.113b(a).
- B. This tank shall be used to store only 190-proof anhydrous ethanol.

Reporting Recordkeeping

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of the source.
- B. The owner or operator shall follow the applicable recordkeeping and reporting standards of Subpart Kb, 40 CFR §60.115b through §60.116b.

Authority for Requirement: DNR Construction Permit 06-A-608-S3
567 IAC 23.1(2)"ddd"

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Exhaust Flow Rate (scfm): Ambient

Exhaust Temperature (°F): Breathing Loss

Authority for Requirement: DNR Construction Permit 06-A-608-S3

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP-B10 & EP-B11

Associated Equipment

Associated Emission Unit ID Numbers: EU-B10 & EUB-11

Emissions Control Equipment ID Number: CE-B10 & CE-B11

Emissions Control Equipment Description: Flue Gas Recirculation & Low NO_x Burners

EP	EU	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EP-B10	EU-B10	New Package Boiler 1	Natural Gas	180 MMBtu/hr	17-A-526
EP-B11	EU-B11	New Package Boiler 2		180 MMBtu/hr	17-A-527

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⁾ for each boiler

Authority for Requirement: DNR Construction Permits 17-A-526 & 17-A-527
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

Emission Limit(s): 1.22 lb/hr, 0.1 gr/dscf for each boiler

Authority for Requirement: DNR Construction Permits 17-A-526 & 17-A-527
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxides (SO₂)

Emission Limit(s): 0.10 lb/hr, 500 ppmv for each boiler

Authority for Requirement: DNR Construction Permits 17-A-526 & 17-A-527
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 6.66 lb/hr, 0.1 lb/MMBtu for each boiler

Authority for Requirement: DNR Construction Permits 17-A-526 & 17-A-527
567 IAC 23.1(2)"ccc"

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 9.99 lb/hr for each boiler

Authority for Requirement: DNR Construction Permits 17-A-526 & 17-A-527

Pollutant: Total HAP

Emission Limit(s): 0.22 lb/hr for each boiler

Authority for Requirement: DNR Construction Permits 17-A-526 & 17-A-527

Operational Limits & Reporting/Record keeping Requirements

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

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall comply with the applicable standards in 40 CFR Part 60, Subpart Db – *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units* [§60.40b - §60.49b], including those not specifically mentioned in this permit. If differences in language are found between this permit and Subpart Db, the language specified in Subpart Db shall be considered correct.
- B. The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day, and calculate the annual capacity factor on a 12 month rolling average basis with a new annual capacity factor calculated at the end of each calendar month, as required in 40 CFR 60.49b(d). The annual capacity factor is defined as the ratio between the actual heat input to a steam generating unit during a calendar year, and the potential heat input had it been operated for 8,760 hours during a calendar year at the maximum steady state design heat input capacity.
- C. The owner or operator shall demonstrate compliance with the emission limits for NO_x (lb/MMBtu) on a continuous basis through the use of a 30-day rolling average emission rate
- D. The owner or operator shall maintain records of the following information for each steam generating unit operating day and it shall be submitted in a quarterly report.
 - 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 above, 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 exceeded 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.

Authority for Requirement: DNR Construction Permits 17-A-526 & 17-A-527
567 IAC 23.1(2)"ccc"

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 61

Stack Opening, (inches, dia.): 54

Exhaust Flow Rate (scfm): 55,200

Exhaust Temperature (°F): 295

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 17-A-526 & 17-A-527

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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack Testing:

Pollutant – Nitrogen Oxides (NO_x)⁽¹⁾

Stack Test to be Completed by (date) - Within sixty (60) days after achieving the maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment for the addition of new equipment or the physical modification of existing equipment or control equipment.

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

Authority for Requirement – DNR Construction Permits 17-A-526 & 17-A-527

Pollutant – Carbon Monoxide (CO)⁽¹⁾

Stack Test to be Completed by (date) - Within sixty (60) days after achieving the maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment for the addition of new equipment or the physical modification of existing equipment or control equipment.

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

Authority for Requirement – DNR Construction Permits 17-A-526 & 17-A-527

⁽¹⁾ Initial performance testing may be conducted for one of the two emission points (EP BS10 and EP BS11) exhausting the Emission Units (EU B10 and EU B11). The results of the test shall be considered representative of the two emission points. If the tested emission point indicates non-compliance, the facility will be considered in violation of the emission limits set for the other emission point, or they may be tested independently to verify compliance.

Continuous Emissions Monitoring:

A. The following monitoring systems are required by this permit:

i. *NO_x*:

The owner or operator shall install, calibrate, maintain and operate a continuous monitoring system, and record the output of the system, for measuring nitrogen oxides (NO_x) emissions discharged to the atmosphere. The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 2 (PS2) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a quarterly notice to the Department with the dates of the quarterly cylinder gas audits and annual relative accuracy test audit.

ii. *Flowmeter*:

The owner or operator shall install, certify, operate, and maintain a continuous flow monitoring system meeting the requirements of 40 CFR 60, Appendix B, Performance Specification 6 and 40 CFR 60, Appendix F, Procedure 1. In addition, the owner or operator shall record the output of the system, for measuring the volumetric flow of exhaust gases discharged to the atmosphere.

B. The following data requirements shall apply to all CEMS for the emission standards in this permit:

i. CEMS required by this permit shall be operated and data recorded during all periods of operation of the emission unit except for CEM breakdowns and repairs. Data is recorded during calibration, checks, and zero and span adjustments.

ii. The 1-hour average NO_x emission rates measured by the CEMS required by this permit shall be used to calculate compliance with the emission standards of this permit. At least two data points must be used to calculate each 1-hour average.

iii. For each hour of missing emission data, the owner or operator shall substitute data by:

a. If the monitor data availability is equal to or greater than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:

b. For the missing data period less than or equal to 24 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

c. For a missing data period greater than 24 hours, substitute the greater of:

- The 90th percentile hourly concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or
- The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

iv. If the monitor data availability is at least 90.0% but less than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:

- a. For a missing data period of less than or equal to 8 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.
 - b. For the missing data period of more than 8 hours, substitute the greater of:
 - The 95th percentile hourly pollutant concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or
 - The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.
 - v. If the monitor data availability is less than 90.0%, the owner or operator shall obtain actual emission data by an alternate testing or monitoring method approved by the Department.
- C. If requested by the Department, the owner/operator shall coordinate the quarterly cylinder gas audits with the Department to afford the Department the opportunity to observe these audits. The relative accuracy test audits shall be coordinated with the Department.
- D. As an alternative to a CEMS, the emissions of nitrogen oxides may be determined using a Predictive Emissions Monitoring System (PEMS). This is in accordance with 40 CFR 60.48b(g)(2) and must meet the requirements of 40 CFR 49b(c).

Authority for Requirement: DNR Construction Permits 17-A-526 & 17-A-527
567 IAC 23.1(2)"ccc"

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

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

G1. Duty to Comply

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

G2. Permit Expiration

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

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

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

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

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

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

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

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

G10. Recordkeeping Requirements for Compliance Monitoring

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

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

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

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

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

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

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

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

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

2. Excess Emissions Reporting

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

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

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

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

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

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

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

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

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

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

G15. Permit Deviation Reporting Requirements

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

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

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

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

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

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

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

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

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

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

2. Minor Title V Permit Modification.

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

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

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

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

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

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

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

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

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

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

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

G24. Permit Reopenings

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

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

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

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

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

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

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

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

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

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

e. The department or the administrator determines that the permit must be revised or

revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

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

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

G25. Permit Shield

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

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

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

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

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

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

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

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

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

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

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

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

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

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

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

G31. Prevention of Air Pollution Emergency Episodes

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

567 IAC 26.1(1)

G32. Contacts List

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

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

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
Wallace State Office Building
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

7900 Hickman Road, Suite #200
Windsor Heights, IA 50324
(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

V. Appendix

- A. 40 CFR 60 Subpart A – General Provisions
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.a>
- B. 40 CFR 60 Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.d_0b
- C. 40 CFR 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984
http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.k_0b
- D. 40 CFR 60 Subpart VV – 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.
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.vv>
- E. 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.iiii>
- F. 40 CFR 63 Subpart A – General Provisions
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.10.63.a>
- G. 40 CFR 63 Subpart ZZZZ – National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.14.63.zzzz>
- H. 40 CFR 63 Subpart BBBBBB – National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.15.63.bbbbbbb>