

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

Name of Permitted Facility: Big River United Energy, LLC
Facility Location: 3294 Vine Road
Dyersville, Iowa 52040

Air Quality Operating Permit Number: 14-TV-010-M001

Expiration Date: October 5, 2019

Permit Renewal Application Deadline: April 5, 2019

EIQ Number: 92-6957

Facility File Number: 28-12-001

Responsible Official

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

For the Director of the Department of Natural Resources

Lori Hanson, Supervisor of Air Operating Permits Section

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
gr./100 cf.....	grains per one hundred cubic feet
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
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: Big River United Energy, LLC
 Permit Number: 14-TV-010-M001

Facility Description: Industrial Organic Chemicals, nec (SIC 2869)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
S10	EU 01	Dried Distillers Grains with Solubles (DDGS) Dryer A	06-A-721-S3
	EU 02	DDGS Dryer B	
	EU 03	DDGS Dryer C	
	EU 04	DDGS Dryer D	
	EU 05	Process/Distillation Vents	
	EU 06	Mixer	
	EU 07 & 08	Slurry Tanks #1 & #2	
	EU 09	Cook Tube	
	EU 10	Flash Tank	
	EU 11	Receiver Tank	
	EU 12 & 13	Liquefaction Tanks #1 & #2	
	EU 14 & 15	Yeast Tanks #1 & #2	
	EU 16	Beer Column	
	EU 17	Side Stripper	
	EU 18	Rectifier Column	
	EU 19	190 Proof Condenser	
	EU 20-25	Molecular Sieves (6 total)	
	EU 26	200 Proof Condenser	
	EU 27-32	Centrifuges #1-#6	
	EU 33-40	Evaporators #1-#8	
EU 41 & 42	2 Recuperative Thermal Oxidizers (CE10 & CE11)		
S20	43	Truck Receiving Areas	06-A-722-S3
	44	Truck/Rail Receiving Areas	

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
	45	Grain Conveyor	
	46	Grain Elevator #1	
	47	Grain Silo #1	
	48	Grain Silo #2	
	49	Emptying Conveyor	
	50	Grain Elevator #2	
	51	Grain Bin #1	
	52	Grain Bin #2	
S30	53, 54, 55, 56 & 57	Hammermill Feed Conveyor EU 53 4 Hammermills (1-4), EU54 – EU57	06-A-723-S3
S40	58, 59, 60, 61, 62, 63, 64 & 65	(7) Fermenters 1-7, EU 58-64 & Beerwell, EU 65	06-A-724-S2
S50	66	Product Loadout Flare and Vapor Recovery System (VRS) Flare	06-A-725-S2
S60	68, 69, 70 & 71	(4) Methanators 1-4	06-A-726-S1
S70	73	Cooling Drum	06-A-727-S2
S80	80	Cooling Tower	06-A-728
S90	74, 75, 76 & 77	DDGS Storage Silos #1 & #2 , DDGS Dump Pit Auger , DDGS Loadout Equipment	06-A-729-S1
S110	S110	Emergency Fire Water Pump	06-A-730
FUG5	FUG5	VOC Emissions from Equipment Leaks	06-A-731-S1
FUG6	FUG6	Truck Traffic	06-A-732-S3
T01	T01	190 Proof Ethanol Storage Tank	06-A-733
T02	T02	200 Proof Ethanol Storage Tank	06-A-734
T03	T03	Ethanol Storage Tank #1	06-A-735-S1
T04	T04	Ethanol Storage Tank #2	06-A-736-S1
T06	T06	Denaturant Storage Tank	06-A-738
GRNDRY	GRNDRY	Grain Dryer	14-A-196

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
S25	S25	Elevator Dump Pit	14-A-197
S201	S201	Storage Bin	14-A-198
S203	S203	Wet Storage Bin	14-A-199

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-CI	Corrosion Inhibitor Tank
EU-FUG1	Grain Handling Fugitives
EU-FUG2	DDGS Handling Fugitives
EU-IPV	Insignificant Process Vents
EU-S51	Truck Loadout Rack-Corn Oil
EU-TS-6851	3,500 Gallon Syrup Feed Tank
EU-TS-6852	560 Gallon Syrup Receiver Tank
EU-TS-8901	9,000 Gallon Corn Oil Storage Tank
EU-TS-8902	9,000 Gallon Corn Oil Storage Tank
EU-TS-8903	9,000 Gallon Corn Oil Storage Tank
EU-TS-8904	9,000 Gallon Corn Oil Storage Tank

II. Plant-Wide Conditions

Facility Name: Big River United Energy, LLC
Permit Number: 14-TV-010-M001

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

Permit Duration

The term of this permit is:
Commencing on: October 6, 2014
Ending on: October 5, 2019

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

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

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

NSPS and NESHAP Applicability

The thermal oxidizer/waste heat boilers are subject to the New Source Performance Standard (NSPS) for Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60 Subpart Db; 567 IAC 23.1(2)“ccc”).

Some of the emission units at this facility are subject to the requirements of NSPS Subpart A-General Provisions and NSPS Subpart Kb (§60.110b) - 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 of the New Source Performance Standards (NSPS).

Some of the emission units are subject to the requirements/conditions of NSPS Subpart A-General Provisions and NSPS Subpart VV - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry of the New Source Performance Standards (NSPS).

The emergency fire water pump engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE).

III. Emission Point-Specific Conditions

Facility Name: Big River United Energy, LLC
 Permit Number: 14-TV-010-M001

Emission Point ID Number: S10

Associated Equipment

Emissions Control Equipment ID Number: CE10 & CE11

Emissions Control Equipment Description: 2 Recuperative Thermal Oxidizers

EU	EU Description	Raw Material	Rated Capacity	Control Equipment
EU 01	Dried Distillers Grains with Solubles (DDGS) Dryer A	Natural Gas	45 MMBtu/hr	2 Recuperative Thermal Oxidizers CE10 & CE11
EU 02	DDGS Dryer B	Natural Gas	45 MMBtu/hr	
EU 03	DDGS Dryer C	Natural Gas	45 MMBtu/hr	
EU 04	DDGS Dryer D	Natural Gas	45 MMBtu/hr	
EU 05	Process/Distillation Vents			
EU 06	Mixer		4680 lbs/min	
EU 07	Slurry Tanks #1		25,000 gal.	
EU 08	Slurry Tanks #2		128,500 gal.	
EU 09	Cook Tube		5000 gal.	
EU 10	Flash Tank		1240 gal.	
EU 11	Receiver Tank		317 gal.	
EU 12 & 13	Liquefaction Tanks #1 & #2		128,500 gal. total	
EU 14 & 15	Yeast Tanks #1 & #2		20,000 gal. each	
EU 16	Beer Column		Vapor Rate: 170,000 lbs/hr Liquid Rate: 837,000 lbs/hr	
EU 17	Side Stripper		Vapor Rate: 36,000 lbs/hr Liquid Rate: 102,000 lbs/hr	
EU 18	Rectifier Column		Vapor Rate: 230,000 lbs/hr	

EU	EU Description	Raw Material	Rated Capacity	Control Equipment
			Liquid Rate: 135,000 lbs/hr	
EU 19	190 Proof Condenser		52,000 gal/hr	
EU 20-25	Molecular Sieves (6 total)		250 gal./minute total	
EU 26	200 Proof Condenser		13,000 gal/hr	
EU 27-32	Centrifuges #1-#6		2500 gal. per minute total	
EU 33-40	Evaporators #1-#8		180 gal. per minute total	
EU 41 & 42	2 Recuperative Thermal Oxidizers (CE10 & CE11)	Natural Gas	122 mmBTU/hr each	

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: 40% ⁽¹⁾

⁽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).

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

Pollutant: PM₁₀

Emission Limit(s): 5.78 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-721-S3

Pollutant: Particulate Matter

Emission Limit: 5.78 lbs/hr, 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

DNR Construction Permit 06-A-721-S3

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 21.92 lbs/hr, 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)

DNR Construction Permit 06-A-721-S3

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 26.60 lb/hr, 0.1 lb/MMBtu ⁽²⁾⁽³⁾⁽⁴⁾

⁽²⁾ As required by 40 CFR 60.44b(h), this standard applies at all times including startup, shutdown, or malfunction.

⁽³⁾ As required by 40 CFR 60.44b(i), compliance with the emission limit is determined on a 30-day rolling average basis.

⁽⁴⁾ Emission rate from 40 CFR 60.44b(a)

Authority for Requirement: 567 IAC 23.1(2) "ccc"

DNR Construction Permit 06-A-721-S3

Pollutant: Volatile Organic Compounds (VOCs)

Emission Limit(s): 5.78 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-721-S3

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 20.56 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-721-S3

Pollutant: Acetaldehyde (HAPs)

Emission Limit(s): 0.46 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-721-S3

Pollutant: Individual Hazardous Air Pollutants (HAPs) ⁽⁵⁾

⁽⁵⁾ The specific Individual HAPs, for which this emission limit applies, are acrolein, formaldehyde, and methanol.

Emission Limit(s): 0.76 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-721-S3

Pollutant: Total HAP

Emission Limit(s): 2.14 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-721-S3

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 (scfm): 150,000

Exhaust Temperature (°F): 300

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permits 06-A-721-S3

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

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

The thermal oxidizer/waste heat boilers are subject to the New Source Performance Standard (NSPS) for Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60 Subpart Db; 567 IAC 23.1(2)“ccc”). These emission limits apply to the emission point.

Authority for Requirement: 40 CFR 60 Subpart Db
567 IAC 23.1(2)“ccc”
DNR Construction Permit 06-A-721-S3

Operating Limits

Operating limits for this emission unit shall be:

- A. The owner or operator shall follow the applicable standards of Subpart Db, 40 CFR 60.40b through 60.49b.
- B. The dryers/thermal oxidizer shall combust only natural gas and/or process off-gases.
- C. The thermal oxidizer shall be maintained at a minimum operating temperature of 1450 degrees F (measured as a three-hour average). The thermal oxidizer shall be operated at all times the dryers or distillation equipment is being used.
- D. The control equipment shall be inspected and maintained according to manufacturer's recommendations.
- E. Plant-wide, grain usage shall not exceed 48,000,000 bushels per twelve-month rolling period.
- F. Plant-wide, DDGS production shall not exceed 421,767 tons per twelve-month rolling period.
- G. The centrifuge feed rate at this facility shall not exceed 1600 gallons per minute on a daily average.

Reporting & Recordkeeping

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

- A. The owner or operator shall keep hourly records of the operating temperature of the thermal oxidizer. The owner or operator shall record all three-hour periods (during actual operations) during which the average temperature of the thermal oxidizer is less than 1450 degrees F.
- B. The owner or operator shall keep records of control equipment inspections and repairs.
- C. 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.

- D. Plant-wide record the amount of grain received for each month of operation. Plant-wide calculate and record the cumulative amount of grain received per twelve-month rolling period for each month of operation.
- E. Plant-wide record the amount of DDGS produced for each month of operation. Plant-wide calculate and record the cumulative amount of DDGS produced per twelve-month rolling period for each month of operation.
- F. Based on the information submitted to the Department, operation of the centrifuges are physically limited to 1600 gallons per minute because the beer column (which is the piece of equipment immediately preceding the centrifuges in the process) has a liquid capacity of 837,000 pounds per hour or approximately 1600 gallons per minute. As such, ongoing compliance monitoring of condition 14.G above is not required. However, should physical changes be made to the facility which allows for a higher liquid feed rate to the centrifuges, the owner/operator shall submit a request to modify this permit.
- G. The owner or operator shall maintain records of the following information for each steam generating unit operating day, as required in 40 CFR 60.49b(g). This information shall also be submitted in a report, as required in 40 CFR 60.49b(i):
 - a. Calendar date
 - b. Average hourly nitrogen oxides emission (as NO₂) rates measured or predicted.
 - c. 30-day average nitrogen oxides 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.
 - d. Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the emission standard, with the reason for such excess emissions as well as a description of corrective actions taken.
 - e. 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.
 - f. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.
 - g. Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.
 - h. Identification of the times when the pollutant concentrations exceeded the full span of the continuous monitoring system.
 - i. Description of any modifications to the continuous monitoring system that could affect the ability of the CEMS to comply with Performance Specification 2 or 3.
 - j. Results of daily CEMS drift tests and quarterly accuracy assessments as required under 40 CFR Appendix F, Procedure 1.

Authority for Requirement: 40 CFR 60 Subpart Db
567 IAC 23.1(2)"ccc"
DNR Construction Permit 06-A-721-S3

Monitoring Requirements

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

Stack Testing:

Pollutant: Nitrogen Oxides (NOx)

Methodology: Stack Testing, CEM

Stack Test to be Completed by – Semi-annual, continuous ⁽¹⁾

⁽¹⁾ Emission testing to demonstrate compliance with the NOx pound per hour emission rate shall be completed semi-annually, with a minimum of 3 months between tests. After a minimum of 4 semi-annual tests, the facility may request a reduction in testing frequency. Compliance with the NSPS emission limit in pounds per million BTU shall be demonstrated using the continuous emissions monitor as outlined in Condition 16 of DNR Construction Permit 06-A-721-S3 and the NSPS.

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

Authority for Requirement: DNR Construction Permit 06-A-721-S3

Pollutant: Acetaldehyde

Methodology: Stack Testing

Stack Test to be Completed by – Quarterly ⁽²⁾

⁽²⁾ Performance testing shall be conducted quarterly. Should four (4) consecutive tests demonstrate emission rates that are less than 90% of the appropriate emissions limit (See DNR Construction Permit 06-A-721-S3, Conditions 14 and 15); the facility may request to reduce testing frequency. Testing of this stack shall be conducted in a manner to verify compliance with all emission limits with all equipment operating in a worst case scenario.

Test Method - 40 CFR 60, Appendix A, Method 18, Method, 320, or other approved method

Authority for Requirement: DNR Construction Permit 06-A-721-S3

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: S20

Associated Equipment

Associated Emissions Unit ID Numbers: EU 43 through EU 52

Emissions Control Equipment ID Number: CE20

Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU 43 through EU 52

Emission Unit Description: Truck and Rail Unloading

Raw Material/Fuel: Grain (Corn)

Rated Capacity: 48,000,000 Bushels/yr

EU	EU Description	Raw Material	Rated Capacity	Control Equipment
EU 43 & 44	Truck & Truck/Rail Receiving Areas	Grain	1,344,000 Tons/yr	CE20 Baghouse
EU 45	Storage Conveyor			
EU 46	Grain Elevator #1			
EU 47 & 48	Grain Silos #1 & #2			
EU 49	Emptying Conveyor			
EU 50	Grain Elevator #2			
EU 51 & 52	Grain Day Bins #1 & #2			

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

⁽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).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permits 06-A-722-S3

Pollutant: PM₁₀

Emission Limit: 1.65 lbs/hr

Authority for Requirement: DNR Construction Permit 06-A-722-S3

Pollutant: Particulate Matter (PM)

Emission Limit: 1.65 lbs/hr, 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)
DNR Construction Permit 06-A-722-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 160

Stack Opening, (inches, dia.): 48

Exhaust Flow Rate (scfm): 40,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-722-S3

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

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

This equipment is of the source type regulated by the New Source Performance Standard (NSPS) for Grain Elevators (40 CFR 60 Subpart DD; 567 IAC 23.1(2)“ooo”). However, for this equipment to be subject to this standard, the facility must have a permanent storage capacity of more than 2.5 million bushels. According to the information available to the Department, this facility has a permanent storage capacity of approximately 1 million bushels. Therefore, this equipment is not subject to this standard at this time.

There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) for this source type at this time.

Authority for Requirement: 40 CFR 60 Subpart DD
567 IAC 23.1(2)“ooo”
DNR Construction Permit 06-A-722-S3

Operating Limits

Operating limits for this emission unit shall be:

- 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 48,000,000 bushels (1,344,000 tons) of grain into the facility via truck and rail, combined, per rolling 12-month period.

Reporting & Recordkeeping

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

- A. The owner or operator shall keep records of control equipment inspection and maintenance.
- B. At the end of each month, record the amount of grain received at the facility (in bushels) over the previous month.
- C. At the end of each month, record the amount of grain received at the facility (in bushels) over the previous twelve (12) months.

Authority for Requirement: DNR Construction Permit 06-A-722-S3

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan 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: S30

Associated Equipment

Associated Emissions Unit ID Numbers: EU53, EU54 through EU57

Emissions Control Equipment ID Number: CE C30

Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU53, EU54 through EU57

Emission Unit Description: Hammermill Feed Conveyor, 4 Hammermills

Raw Material/Fuel: Grain

Rated Capacity: 10,000 Bushels/hr, 100 Tons/hr (each)

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⁾

⁽¹⁾ An exceedence 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 exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 06-A-723-S3

Pollutant: PM₁₀

Emission Limit(s): 0.96 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-723-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.96 lb/hr, 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)
DNR Construction Permit 06-A-723-S3

Operational Limits & Requirements

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

Operating Limits:

Operating limits for this emission unit shall be:

- 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 48,000,000 bushels (1,344,000 tons) of grain into the facility via truck and rail, combined, per rolling 12-month period.

Reporting & Recordkeeping:

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

- A. The owner or operator shall keep records of control equipment inspection and maintenance.
- B. At the end of each month, record the amount of grain received at the facility (in bushels) over the previous month.
- C. At the end of each month, record the amount of grain received at the facility (in bushels) over the previous twelve (12) months.

Authority for Requirement: DNR Construction Permit 06-A-723-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 160

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-723-S3

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan 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: S40

Associated Equipment

Associated Emissions Unit ID Numbers: EU 58 through EU 64 & EU 65

Emissions Control Equipment ID Number: C40

Emissions Control Equipment Description: Scrubber

Emission Unit vented through this Emission Point: EU 58 through EU 64 & EU 65

Emission Unit Description: Fermenters 1 through 7, Beerwell

Raw Material/Fuel: Grain

Rated Capacity: 807,000 gal. (each) & 1.08 million gal.

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

⁽¹⁾ An exceedence 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 exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 06-A-724-S2

Pollutant: PM₁₀

Emission Limit(s): 0.41 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-724-S2

Pollutant: Particulate Matter

Emission Limit(s): 0.82 lb/hr, 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2) "a"
DNR Construction Permit 06-A-724-S2

Pollutant: Volatile Organic Compounds (VOCs)

Emission Limit(s): 12.37 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-724-S2

Pollutant: Acetaldehyde (HAPs)

Emission Limit(s): 1.28 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-724-S2

Pollutant: Individual Hazardous Air Pollutants s (HAPs) ⁽⁴⁾

⁽⁴⁾ The specific Individual HAPs are acrolein, formaldehyde, and methanol.

Emission Limit(s): 0.15 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-724-S2

Pollutant: Total HAP

Emission Limit(s): 1.77 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-724-S2

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

There are no New Source Performance Standards (NSPS) for this source type at this time.

Operating Limits:

Operating limits for this emission unit shall be:

- A. The Fermentation Scrubber (C40) shall maintain an average pressure drop across the wet scrubber that is greater than 6 inches water column based on a 24-hour averaging period. The facility, Big River United Energy, shall establish an alarm setting for the purpose of initiating corrective action based on a pressure drop across the wet scrubber of 6 inches water column or less. After the collection of 12 months of pressure drop data, Big River United Energy shall reevaluate the minimum pressure drop requirements to determine if the pressure drop monitoring shall be adjusted. If so, Big River United Energy shall submit a modification request to the Department.
- B. The Fermentation Scrubber (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.

Reporting & Recordkeeping:

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

- A. Record the scrubber pressure drop on a continuous basis. On those days when there is an

alarm for the pressure drop reaching 6 inches water column or less, 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 below the minimum required, then record the time, date and actions taken to correct the situation and when the pressure drop is back above the minimum average pressure drop 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 condition 10.
- E. The owner or operator shall keep records of control equipment inspections and repairs. This shall include the following:
 - i. The date the inspection or repair work was initiated;
 - ii. A description of the repair work done;
 - iii. Identification of any issues noted during an inspection;
 - iv. Identification of staff member performing the work or inspection.

Authority for Requirement: DNR Construction Permit 06-A-724-S2

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 (scfm): 15,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 06-A-724-S2

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

Monitoring Requirements

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

Stack Testing:

Pollutant: Acetaldehyde
Stack Test to be Completed by – Quarterly ⁽¹⁾

⁽¹⁾ Performance testing shall be conducted quarterly. Should four (4) consecutive tests demonstrate emission rates that are less than 90% of the appropriate emissions limit (See DNR Construction Permit 06-A-721-S3, Conditions 14 and 15); the facility may request to reduce testing frequency. Testing of this stack shall be conducted in a manner to verify compliance with all emission limits with all equipment operating in a worst case scenario.

Test Method - 40 CFR 60, Appendix A, Method 18, 320, or other approved method
Authority for Requirement: DNR Construction Permit 06-A-724-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: S50

Associated Equipment

Associated Emissions Unit ID Numbers: EU 66
Emissions Control Equipment ID Number: CE C50
Emissions Control Equipment Description: Vapor Recovery System/Enclosed Flare

Emission Unit vented through this Emission Point: EU 66
Emission Unit Description: Ethanol Loadout
Raw Material/Fuel: Natural Gas, Fugitive Ethanol Vapor
Rated Capacity: 12.4 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⁾

⁽¹⁾ An exceedence 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 exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 06-A-725-S2

Pollutant: PM₁₀

Emission Limit(s): 0.09 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-725-S2

Pollutant: Particulate Matter

Emission Limit(s): 0.09 lb/hr, 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"
DNR Construction Permit 06-A-725-S2

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)
DNR Construction Permit 06-A-725-S2

Pollutant: Nitrogen Oxide (NO_x)

Emission Limit(s): 0.85 lbs/hr

Authority for Requirement: DNR Construction Permit 06-A-725-S2

Pollutant: Volatile Organic Compounds (VOCs)

Emission Limit(s): 1.17 lb/hr ⁽²⁾

⁽²⁾ VOC emissions are from the combustion of the flare and the product loading losses. Emissions are limited below Title V and PSD major thresholds by the capacity of the flare.

Authority for Requirement: DNR Construction Permit 06-A-725-S2

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 4.59 lbs/hr

Authority for Requirement: DNR Construction Permit 06-A-725-S2

Pollutant: Single Hazardous Air Pollutant (HAPs)

Emission Limit(s): 0.06 lbs/hr

Authority for Requirement: DNR Construction Permit 06-A-725-S2

Pollutant: Total HAP

Emission Limit(s): 0.16 lbs/hr

Authority for Requirement: DNR Construction Permit 06-A-725-S2

Operational Limits & Requirements

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

Operating Limits:

Operating limits for this emission unit shall be:

- A. The amount of product processed through the truck loading shall not exceed 45,000,000 gallons per twelve-month rolling period.
- B. The control equipment shall be used whenever product is loaded through the rail or truck loadout.
- C. The flare shall be operated per the requirements of 40 CFR 60.18.
- D. The control equipment shall be inspected and maintained according to manufacturer's recommendations.
- E. Plant-wide the total amount of denatured/undenatured ethanol loaded out by truck or rail shall not exceed 130,000,000 gallons per twelve-month rolling period.
- F. No switch loading (arrival with a load of denaturant, leaving with a load of denatured ethanol) shall occur at the rail loadout.

Reporting & Recordkeeping:

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

- A. The owner or operator shall keep records of control equipment inspections and repairs. This shall include the following:

- v. The date the inspection or repair work was initiated;
- vi. A description of the repair work done;
- vii. Identification of any issues noted during an inspection;
- viii. Identification of staff member performing the work or inspection.

B. The owner or operator shall determine the total amount of denatured/undenatured ethanol loaded out for each month of operation and calculate 12-month rolling total amount of denatured/undenatured ethanol loaded out for each month of operation.

C. The owner or operator shall determine the total amount of denatured/undenatured ethanol loaded out by truck for each month of operation and calculate 12-month rolling total amount of denatured/undenatured ethanol loaded out by truck for each month of operation.

Authority for Requirement: DNR Construction Permit 06-A-725-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30

Stack Opening, (inches, dia.): 60

Exhaust Flow Rate (scfm): 8,000

Exhaust Temperature (°F): 1,800

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-725-S2

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: S60

Associated Equipment

Associated Emissions Unit ID Numbers: EU 68 through EU 71

Emissions Control Equipment ID Number: CE-C60

Emissions Control Equipment Description: Flare (6.4 MMBtu/Hr)

Emission Unit vented through this Emission Point: EU 68 through EU 71

Emission Unit Description: (4) Methanators 1-4

Raw Material/Fuel: Water/Distillation By-Product

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): 40 % ⁽¹⁾

⁽¹⁾ An exceedence 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 exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

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

DNR Construction Permit 06-A-726-S1

Pollutant: PM

Emission Limit(s): 0.1 gr/dscf

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

DNR Construction Permit 06-A-726-S1

Pollutant: Nitrogen Oxide (NO_x)

Emission Limit(s): 0.45 lbs/hr

Authority for Requirement: DNR Construction Permit 06-A-726-S1

Pollutant: Volatile Organic Compounds (VOCs)

Emission Limit(s): 0.33 lbs/hr

Authority for Requirement: DNR Construction Permit 06-A-726-S1

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 2.38 lbs/hr

Authority for Requirement: DNR Construction Permit 06-A-726-S1

Pollutant: Single Hazardous Air Pollutant (HAPs)
Emission Limit(s): 0.0023 lbs/hr
Authority for Requirement: DNR Construction Permit 06-A-726-S1

Operational Limits & Requirements

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

Operating Limits:

Operating limits for this emission unit shall be:

- A. The flare shall be used whenever the dryers are not in operation.
- B. All gas produced in the methanators shall be vented to either the dryers or the flare.
- C. The control equipment shall be inspected and maintained according to manufacturer's recommendations.

Reporting & Recordkeeping:

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

- A. The owner or operator shall keep records of control equipment inspections and repairs. This shall include the following:
 - i. The date the inspection or repair work was initiated;
 - ii. A description of the repair work done;
 - iii. Identification of any issues noted during an inspection;
 - iv. Identification of staff member performing the work or inspection.

Authority for Requirement: DNR Construction Permit 06-A-726-S1

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 (scfm): 1,500
Exhaust Temperature (°F): 1,800
Discharge Style: Vertical without rain cap or with unobstructing rain cap
Authority for Requirement: DNR Construction Permit 06-A-726-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan 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: S70

Associated Equipment

Associated Emissions Unit ID Numbers: EU 73
Emissions Control Equipment ID Number: CE C70
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU 73
Emission Unit Description: Cooling Drum
Raw Material/Fuel: DDGS
Rated Capacity: 44.4 Tons/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⁾

⁽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).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 06-A-727-S2

Pollutant: PM₁₀

Emission Limit(s): 1.03 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-727-S2

Pollutant: Particulate Matter

Emission Limit(s): 1.03 lb/hr, 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)
DNR Construction Permit 06-A-727-S2

Pollutant: Volatile Organic Compounds (VOCs)

Emission Limit(s): 2.41 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-727-S2

Pollutant: Individual Hazardous Air Pollutants (HAPs)

Emission Limit(s): 0.06 lb/hr ⁽²⁾

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

Authority for Requirement: DNR Construction Permit 06-A-727-S2

Pollutant: Total HAP
Emission Limit(s): 0.19 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-727-S2

Operational Limits & Requirements

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

Operating Limits:

Operating limits for this emission unit shall be:

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

Reporting & Recordkeeping:

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

- A. The owner or operator shall keep records of control equipment inspections and repairs. This shall include the following:
 - i. The date the inspection or repair work was initiated;
 - ii. A description of the repair work done;
 - iii. Identification of any issues noted during an inspection;
 - iv. Identification of staff member performing the work or inspection.

Authority for Requirement: DNR Construction Permit 06-A-727-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 48
Stack Opening, (inches, dia.): 48
Exhaust Flow Rate (scfm): 9,500
Exhaust Temperature (°F): 110
Discharge Style: Vertical, Obstructed
Authority for Requirement: DNR Construction Permit 06-A-727-S2

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan 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: S80

Associated Equipment

Associated Emissions Unit ID Numbers: EU80

Emission Unit vented through this Emission Point: EU80

Emission Unit Description: Cooling Tower

Raw Material/Fuel: Water (With Non-VOC Biocide)

Rated Capacity: 3,000,000 Gal/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

⁽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).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 06-A-728

Pollutant: PM₁₀

Emission Limit(s): 3.12 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-728

Pollutant: Particulate Matter

Emission Limit(s): 3.12 lb/hr, 0.1 dscf

Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 06-A-728

Operational Limits & Requirements

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

Operating Limits:

Operating limits for this emission unit shall be:

- A. The circulating water in the cooling tower shall not exceed 2,500 parts per million (ppm) total dissolved solids (TDS). Monitoring of the TDS shall be conducted on a monthly schedule.
- B. The cooling tower shall be operated and maintained per the manufacturer's specifications and instructions.

Reporting & Recordkeeping:

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

- A. Maintain records on-site of the TDS concentration in the cooling tower circulating water. Records shall also be kept of the dates of measurement and the methods used to determine the concentration of the TDS in the cooling water.
- B. Maintain records of all maintenance and repair to the cooling tower.

Authority for Requirement: DNR Construction Permit 06-A-728

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 304

Exhaust Flow Rate (scfm): 3,034,076

Exhaust Temperature (°F): 85

Discharge Style: Vertical

Authority for Requirement: DNR Construction Permit 06-A-728

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP S90

Associated Equipment

EU	EU Description	Raw Material	Rated Capacity	Control Equipment
74 & 75	DDGS Storage Silos #1 & #2	DDGS	4,000 tons each	Baghouse (C90)
76	DDGS Dump Pit Auger		240 tons/hr	
77	DDGS Loadout Equipment		240 tons/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⁾

⁽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).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 06-A-729-S1

Pollutant: PM₁₀

Emission Limit(s): 0.39 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-729-S1

Pollutant: Particulate Matter (PM)

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

Authority for Requirement: 567 IAC 23.3(2) "a"
DNR Construction Permit 06-A-729-S1

Pollutant: Acetaldehyde

Emission Limit(s): 0.03 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-729-S1

Pollutant: Individual Hazardous Air Pollutants (HAPs)

Emission Limit(s): 0.18 lb/hr ⁽²⁾

⁽²⁾ The specific individual HAPs are acrolein, formaldehyde, and methanol.

Authority for Requirement: DNR Construction Permit 06-A-729-S1

Pollutant: Total HAP
Emission Limit(s): 0.21 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-729-S1

Operational Limits & Requirements

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

Operating Limits:

Operating limits for this emission unit shall be:

- A. The control equipment shall be inspected and maintained according to manufacturer's recommendations.

Reporting & Recordkeeping:

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

- A. The owner or operator shall keep records of control equipment inspections and repairs.

Authority for Requirement: DNR Construction Permit 06-A-729-S1

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 (scfm): 9,100
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical w/o rain cap or w/ unobstructing rain cap
Authority for Requirement: DNR Construction Permit 06-A-729-S1

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

Monitoring Requirements

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

Stack Testing:

Pollutant: Acetaldehyde

Methodology: Stack Testing

Stack Test to be Completed by – See Note (1)

(1) Performance testing shall be conducted annually with a minimum of three (3) months between tests. Should two (2) consecutive tests demonstrate emission rates that are less than 90% of the appropriate emissions limit the facility may request to reduce testing frequency. Testing of this stack shall be conducted in a manner to verify compliance with all emission limits with all equipment operating in a worst case scenario.

Test Method - 40 CFR 60, Appendix A, Method 18, Method, 320, or other approved method

Authority for Requirement: DNR Construction Permit 06-A-729-S1

Pollutant: Individual HAP

Stack Test to be Completed by – See Note (1) and (2)

(1) Performance testing shall be conducted annually with a minimum of three (3) months between tests. Should two (2) consecutive tests demonstrate emission rates that are less than 90% of the appropriate emissions limit the facility may request to reduce testing frequency. Testing of this stack shall be conducted in a manner to verify compliance with all emission limits 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.

Test Method - 40 CFR 60, Appendix A, Method 18, Method, 320, or other approved method

Authority for Requirement: DNR Construction Permit 06-A-729-S1

Pollutant: Total HAP

Stack Test to be Completed by – See Note (1) and (2)

(1) Performance testing shall be conducted annually with a minimum of three (3) months between tests. Should two (2) consecutive tests demonstrate emission rates that are less than 90% of the appropriate emissions limit the facility may request to reduce testing frequency. Testing of this stack shall be conducted in a manner to verify compliance with all emission limits 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.

Test Method - 40 CFR 60, Appendix A, Method 18, Method, 320, or other approved method

Authority for Requirement: DNR Construction Permit 06-A-729-S1

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan 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 S110

Associated Equipment

Associated Emissions Unit ID Numbers: EU S110

Emission Unit vented through this Emission Point: EU S110
Emission Unit Description: Emergency Fire Water Pump (2008 John Deere, NFPA Certified)
Raw Material/Fuel: Diesel Fuel
Rated Capacity: 300 BHP

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

⁽¹⁾ An exceedence 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 exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 06-A-730

Pollutant: PM₁₀

Emission Limit(s): 0.71 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-730

Pollutant: Particulate Matter

Emission Limit(s): 0.71 lb/hr

Authority for Requirement: 567 IAC 23.3(3)"a"
DNR Construction Permit 06-A-730

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 0.67 lb/hr, 2.5 lbs/MMBtu

Authority for Requirement: 567 IAC 23.3(3)
DNR Construction Permit 06-A-730

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 10.1 lb/hr,

Authority for Requirement: DNR Construction Permit 06-A-730

Pollutant: Volatile Organic Compounds (VOCs)
 Emission Limit(s): 0.81 lb/hr
 Authority for Requirement: DNR Construction Permit 06-A-730
 Pollutant: Carbon Monoxide (CO)
 Emission Limit(s): 2.20 lb/hr
 Authority for Requirement: DNR Construction Permit 06-A-730

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

NESHAP:

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

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

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

NSPS Subpart IIII Requirements

For emergency (FP) CI engines with Disp. < 30 l/cyl constructed after 7/11/2005 and manufactured after 7/1/2006:

Emission Standards:

According to 40 CFR 60.4205(c) and Table 1 to Subpart IIII, you must comply with the following emission standards in grams/kW-hr (grams/HP-hr):

Maximum Engine Power	Model Year(s)	NMHC + NOx	CO	PM
130 ≤ kW ≤ 560 (175 ≤ HP ≤ 750)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)

Fuel Requirements:

You must use diesel fuel that has a maximum sulfur content of 15 ppm (0.0015%) by weight and a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume. 40 CFR 60.4207 and 40 CFR 80.510(b).

Compliance Requirements:

1. You must operate and maintain the engine to comply with the required emission standards over the entire life of the engine (40 CFR 60.4206) by doing all of the following (40 CFR 60.4211(a)).
 - a) Operating and maintaining the engine and control device according to the manufacturer's emission-related written instructions;
 - b) Changing only those emission-related settings that are permitted by the manufacturer; and
 - c) Meeting the requirements of 40 CFR 89, 94 and/or 1068, as they apply to you.
2. You must demonstrate compliance with the applicable emission standards according to one of the following methods. 40 CFR 60.4211(b).
 - a) Purchasing an engine certified according to 40 CFR 89 or 40 CFR 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.
 - b) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in Subpart IIII and these methods must have been followed correctly.
 - c) Keeping records of engine manufacturer data indicating compliance with the standards.
 - d) Keeping records of control device vendor data indicating compliance with the standards.
 - e) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 CFR 60.4212, as applicable.
3. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct the following performance testing in accordance with 40 CFR 60.4212 to demonstrate compliance with applicable emission standards. You are required to notify the DNR 30 days prior to the test date and are required to submit a stack test report to the DNR within 60 days after the completion of the testing. See 40 CFR 60.4211(g) for additional information.

Maximum Engine Power	Initial Test	Subsequent Test
100 ≤ HP ≤ 500	Within 1 year of engine startup, or non-permitted action ⁽¹⁾	Not required

⁽¹⁾ Non-permitted action means that you do not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-related written instructions, or you change the emission-related settings in a way that is not permitted by the manufacturer.

Operating and Recordkeeping Requirements

1. If your emergency engine does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine (40 CFR 40.4209(a)).
2. There is no time limit on use for emergency situations. 40 CFR 60.4211(f)(1).
3. The engine may be operated for the purpose of maintenance checks and readiness testing, emergency demand response, and deviation of voltage or frequency for a maximum of 100 hours/year. See 40 CFR 60.4211(f)(2) for more information.
4. The engine may be operated for up to 50 hours per year for non-emergency purposes.

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

Operating Limits

Operating limits for this emission unit shall be:

- A. The fuel shall be limited to #1 or #2 diesel only with a sulfur content not to exceed 0.5% by weight.
- B. The fire water pump shall not operate more than 500 hours per twelve month rolling period.

Reporting & Recordkeeping:

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

- A. Maintain records as to the type of fuel oil used.
- B. Record the number of hours the fire pump operated per twelve-month rolling period.

Authority for Requirement: DNR Construction Permit 06-A-730

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 (scfm): 750
Exhaust Temperature (°F): 770
Discharge Style: Vertical w/o rain cap or w/ unobstructing rain cap
Authority for Requirement: DNR Construction Permit 06-A-730

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP FUG5

Associated Equipment

Associated Emissions Unit ID Numbers: EU FUG5

Emissions Control Measures ID Number: NA

Emissions Control Measures Description: Leak Detection and Repair Program

Emission Unit vented through this Emission Point: EU FUG5

Emission Unit Description: VOC Emissions from Equipment Leaks

Raw Material/Fuel: VOC Leaks

Rated Capacity: NA

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

⁽¹⁾ An exceedence 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 exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 06-A-731-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 06-A-731-S1

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

This facility is subject to the requirements of the New Source Performance Standards (NSPS) 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 (40 CFR 60 Subpart VV; 567 IAC 23.1(2)"nn").

Authority for Requirement: 40 CFR Part 60 Subpart VV
567 IAC 23.1(2) "nn"
DNR Construction Permit 06-A-731-S1

Operating Limits

Operating limits for this emission unit shall be:

- A. The VOC emissions from the equipment leaks at this facility shall not exceed 12.56 tons per twelve (12) month period, rolled monthly.
- B. The component count shall be documented as to the number and types of components used. Components include but are not limited to valves, pumps, compressor seals, flanges, etc. The component count shall be updated as the component count varies.
- C. The owner or operator shall follow the applicable standards of NSPS Subpart VV, 40 CFR 60.480 through 40 CFR 60.489.

Reporting & Recordkeeping:

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

- A. Calculate and record the VOC and HAP emissions based on the documented component count. Update annualized VOC and HAP emission calculations as the component count varies. Emission factors shall be used from Table 2-1 of EPA document 453/R-95-017 entitled Protocol for Equipment Leak Emission Estimates. Control efficiency shall be used from Table 5-2 for quarterly monitoring. For calculating emissions from Pressure Release Devices, emission factors shall be used from Table 2-9 of EPA document 453/R-95-017 entitled Protocol for Equipment Leak Emission Estimates.
- B. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.

Authority for Requirement: 40 CFR Part 60 Subpart VV
DNR Construction Permit 06-A-731-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 FUG6

Associated Equipment

Associated Emissions Unit ID Numbers: FUG6

Emissions Control Equipment ID Number: NA

Emissions Control Equipment Description: Sweeping/Flushing

Emission Unit vented through this Emission Point: FUG6

Emission Unit Description: Truck Traffic

Raw Material/Fuel: Water

Rated Capacity: NA

Applicable Requirements

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

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

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

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

DNR Construction Permit 06-A-732-S3

Operational Limits & Requirements

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

Operating Limits:

Operating limits for this emission unit shall be:

- A. The haul road shall be paved prior to the receipt of any grain.
- 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. The silt loading on the surface of the paved haul roads shall not exceed 0.4 grams per square meter.

- E. Silt load performance testing shall be completed once each calendar quarter with a minimum of 45 days between each test. Testing shall be completed prior to surface cleaning for that day. Sampling associated with this testing shall be performed in at least 3 locations throughout the facility. Sampling shall be completed using methods outlined in USEPA's AP-42 Appendix C-1.
- 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.

Reporting & Recordkeeping:

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

- A. The owner/operator shall maintain a log of all surface cleaning that is performed on the roads. This log shall include, but not be limited to:
 - a. The date and time any surface cleaning operation starts;
 - b. A description of the operation that is undertaken;
 - c. Any relevant operating data (IE, amount of water used, etc)
 - d. Identification of personnel performing operations.
- B. The plant shall maintain a log for the haul roads that show the monthly vehicle miles traveled (VMT) on site.
- C. The owner/operator shall maintain silt load sampling results for each sample taken.

Authority for Requirement: DNR Construction Permit 06-A-732-S3

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 T01

Associated Equipment

Associated Emissions Unit ID Numbers: EU T01
Emissions Control Equipment ID Number: CE T01
Emissions Control Equipment Description: Internal Floating Roof

Emission Unit vented through this Emission Point: EU T01
Emission Unit Description: 190 Proof Ethanol Storage Tank
Raw Material/Fuel: 190 Proof Ethanol
Rated Capacity: 200,000 gal.

Applicable Requirements

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

The NSPS Standard, 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*, applies to this unit. None of the NESHAP standards applies to this unit.

Authority for Requirement: 40 CFR Part 60 Subpart Kb
567 IAC 23.1(2)"ddd"
DNR Construction Permit 06-A-733

Operating Limits:

Operating limits for this emission unit shall be:

- A. The storage tank shall only store 190 Proof ethanol.
- B. 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).

Reporting & Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. The owner or operator shall keep readily accessible records showing the dimensions 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 keep records as required in 40 CFR 60.115b(a) and 40 CFR 60.116b.

Authority for Requirement: 40 CFR Part 60 Subpart Kb
567 IAC 23.1(2)"ddd"
DNR Construction Permit 06-A-733

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): NA
Stack Opening, (inches, dia.): NA
Exhaust Flow Rate (scfm): Working and Breathing Loss
Exhaust Temperature (°F): Ambient
Discharge Style: NA
Authority for Requirement: DNR Construction Permit 06-A-733

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP T02

Associated Equipment

Associated Emissions Unit ID Numbers: EU T02
Emissions Control Equipment ID Number: CE T02
Emissions Control Equipment Description: Internal Floating Roof

Emission Unit vented through this Emission Point: EU T02
Emission Unit Description: 200 Proof Ethanol Storage Tank
Raw Material/Fuel: 200 Proof Ethanol
Rated Capacity: 200,000 gal.

Applicable Requirements

Operational Limits & Requirements

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

New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

The NSPS standard, 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, applies to this unit. None of the NESHAP standards applies to this unit.

Authority for Requirement: 40 CFR Part 60 Subpart Kb
567 IAC 23.1(2)"ddd"
DNR Construction Permit 06-A-734

Operating Limits:

Operating limits for this emission unit shall be:

- A. The storage tank shall only store 200 Proof ethanol.
- B. 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).

Reporting & Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. The owner or operator shall keep readily accessible records showing the dimensions 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 standards of Subpart Kb, 40 CFR 60.115b(a), and inspect as required in 40 CFR 60.113b.

Authority for Requirement: 40 CFR Part 60 Subpart Kb
567 IAC 23.1(2)"ddd"
DNR Construction Permit 06-A-734

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): NA
Stack Opening, (inches, dia.): NA
Exhaust Flow Rate (scfm): Working and Breathing Loss
Exhaust Temperature (°F): Ambient
Discharge Style: NA
Authority for Requirement: DNR Construction Permit 06-A-734

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP T03

Associated Equipment

Associated Emissions Unit ID Numbers: EU T03
Emissions Control Equipment ID Number: CE T03
Emissions Control Equipment Description: Internal Floating Roof

Emission Unit vented through this Emission Point: EU T03
Emission Unit Description: Ethanol Storage Tank #1
Raw Material/Fuel: Denatured/Undenatured Ethanol
Rated Capacity: 1,500,000 gal.

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

⁽¹⁾ An exceedence 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 exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 06-A-735-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 06-A-735-S1

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

This unit is subject to the New Source Performance Standard (NSPS) for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced after July 23, 1984 (40 CFR 60 Subpart Kb; 567 IAC 23.1(2)"ddd").

Authority for Requirement: 40 CFR Part 60 Subpart Kb
567 IAC 23.1(2)"ddd"
DNR Construction Permit 06-A-735-S1

Operating Limits:

Operating limits for this emission unit shall be:

- A. This tank shall store 200-proof ethanol or denatured ethanol only.
- B. 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).

Reporting & Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. The owner or operator 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 keep records as required in 40 CFR 60.115b(a) and 40 CFR 60.116b.

Authority for Requirement: 40 CFR Part 60 Subpart Kb
567 IAC 23.1(2)"ddd"
DNR Construction Permit 06-A-735-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): NA

Exhaust Flow Rate (scfm): See Note

Exhaust Temperature (°F): Ambient

Discharge Style: NA

Note: The air flow from this unit is the natural draft caused by working and standing losses from the tank. The actual flow rate will be dependent on ambient and process conditions.

Authority for Requirement: DNR Construction Permit 06-A-735-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP T04

Associated Equipment

Associated Emissions Unit ID Numbers: EU T04
Emissions Control Equipment ID Number: CE T04
Emissions Control Equipment Description: Internal Floating Roof

Emission Unit vented through this Emission Point: EU T03
Emission Unit Description: Ethanol Storage Tank #2
Raw Material/Fuel: Denatured/Undenatured Ethanol
Rated Capacity: 1,500,000 gal.

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

⁽¹⁾ An exceedence 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 exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 06-A-736-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 06-A-736-S1

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

This unit is subject to the New Source Performance Standard (NSPS) for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced after July 23, 1984 (40 CFR 60 Subpart Kb; 567 IAC 23.1(2)"ddd").

Authority for Requirement: 40 CFR Part 60 Subpart Kb
567 IAC 23.1(2)"ddd"
DNR Construction Permit 06-A-736-S1

Operating Limits:

Operating limits for this emission unit shall be:

- A. This tank shall store 200-proof ethanol or denatured ethanol only.
- B. 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).

Reporting & Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. The owner or operator 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 keep records as required in 40 CFR 60.115b(a) and 40 CFR 60.116b.

Authority for Requirement: 40 CFR Part 60 Subpart Kb
567 IAC 23.1(2)"ddd"
DNR Construction Permit 06-A-736-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): NA

Exhaust Flow Rate (scfm): See Note

Exhaust Temperature (°F): Ambient

Discharge Style: NA

Note: The air flow from this unit is the natural draft caused by working and standing losses from the tank. The actual flow rate will be dependent on ambient and process conditions.

Authority for Requirement: DNR Construction Permit 06-A-736

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP T06

Associated Equipment

Associated Emissions Unit ID Numbers: EU T06
Emissions Control Equipment ID Number: CE T06
Emissions Control Equipment Description: Internal Floating Roof

Emission Unit vented through this Emission Point: EU T06
Emission Unit Description: Denaturant Storage Tank
Raw Material/Fuel: Denaturant
Rated Capacity: 200,000 gal.

Applicable Requirements

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

The NSPS standard, 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, applies to this unit. None of the NESHAP standards applies to this unit.

Authority for Requirement: 40 CFR Part 60 Subpart Kb
567 IAC 23.1(2)"ddd"
DNR Construction Permit 06-A-738

Operating Limits:

Operating limits for this emission unit shall be:

- A. The storage tank shall only store denaturant.
- B. 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).

Reporting & Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. The owner or operator shall keep readily accessible records showing the dimensions 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 standards of Subpart Kb, 40 CFR 60.115b(a), and inspect as required in 40 CFR 60.113b.

Authority for Requirement: 40 CFR Part 60 Subpart Kb
567 IAC 23.1(2)"ddd"
DNR Construction Permit 06-A-738

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): NA
Stack Opening, (inches, dia.): NA
Exhaust Flow Rate (scfm): Working and Breathing Loss
Exhaust Temperature (°F): Ambient
Discharge Style: NA
Authority for Requirement: DNR Construction Permit 06-A-738

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-GRNDRY

Associated Equipment

Associated Emissions Unit ID Numbers: EU-GRNDRY

Emission Unit vented through this Emission Point: EU-GRNDRY
Emission Unit Description: Grain Dryer
Raw Material/Fuel: Grain
Rated Capacity: 365 tons/hr; 100.75 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⁾

⁽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).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 14-A-196

Pollutant: PM_{2.5}

Emission Limit(s): 4.2 lb/hr

Authority for Requirement: DNR Construction Permit 14-A-196

Pollutant: PM₁₀

Emission Limit(s): 20.8 lb/hr

Authority for Requirement: DNR Construction Permit 14-A-196

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf, 81.1 lb/hr

Authority for Requirement: 567 IAC 23.4(7)
DNR Construction Permit 14-A-196

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3) "e"
DNR Construction Permit 14-A-196

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 10.0 lb/hr

Authority for Requirement: DNR Construction Permit 14-A-196

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

- A. The Grain Dryer (EU-GRNDRY) is not subject to any NSPS, including Subpart DD, because the permanent storage capacity for this facility remains below 2.5 million bushels.
- B. The Grain Dryer (EU-GRNDRY) is not subject to any NESHAP, because there are no applicable categories at this time.

Operating Limits

Operating limits for this emission unit shall be:

- A. The burner associated with the Grain Dryer (EU-GRNDRY) shall combust natural gas only.
- B. The Grain Dryer (EU-GRNDRY) shall operate no more than 2,000 hours per each 12-month rolling period.
- C. The amount of grain processed by the Grain Dryer (EU-GRNDRY) shall not exceed 10,000,000 bushels (280,000 tons) per each 12-month rolling period.

Reporting & Recordkeeping:

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

- A. The permittee shall maintain monthly records showing the type of fuel used by the burner associated with the Grain Dryer (EU-GRNDRY).
- B. The permittee shall maintain monthly and 12-month rolling totals of the number of hours that the Grain Dryer (EU-GRNDRY) operates.
- C. The permittee shall maintain monthly and 12-month rolling totals of the amount of grain, in tons, that the Grain Dryer (EU-GRNDRY) processes.

Authority for Requirement: DNR Construction Permit 14-A-196

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): NA
Stack Opening, (inches, dia.): NA
Exhaust Flow Rate (scfm): 441,285
Exhaust Temperature (°F): 90
Discharge Style: N/A
Authority for Requirement: DNR Construction Permit 14-A-196

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-S25

Associated Equipment

Associated Emissions Unit ID Numbers: EU-S25
Emissions Control Equipment ID Number: CE-C25
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-S25
Emission Unit Description: Elevator Dump Pit
Raw Material/Fuel: Grain
Rated Capacity: 20,000 Bushels/Hour

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⁾

⁽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).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 14-A-197

Pollutant: PM_{2.5}

Emission Limit(s): 0.07 lb/hr

Authority for Requirement: DNR Construction Permit 14-A-197

Pollutant: PM₁₀

Emission Limit(s): 0.42 lb/hr

Authority for Requirement: DNR Construction Permit 14-A-197

Pollutant: Particulate Matter

Emission Limit(s): 1.68 lb/hr, 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)
DNR Construction Permit 14-A-197

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

- A. The Elevator Dump Pit (EU-S25) is not subject to any NSPS, including Subpart DD, because the permanent storage capacity for this facility remains below 2.5 million bushels.
- B. The Elevator Dump Pit (EU-S25) is not subject to any NESHAP, because there are no applicable categories at this time.

Operating Limits

Operating limits for this emission unit shall be:

- A. The permittee shall operate and maintain the control device (CE-C25) associated with the Elevator Dump Pit (EU-S25) in accordance with manufacturer's specifications.

Reporting & Recordkeeping:

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

- A. The permittee shall keep records of all maintenance and repairs to the control device (CE-C25) associated with the Elevator Dump Pit (EU-S25).

Authority for Requirement: DNR Construction Permit 14-A-197

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 25

Cell Stack Opening, (inches, dia.): 45.6

Exhaust Flow Rate (scfm): 49,000

Exhaust Temperature (°F): 68

Discharge Style: Vertical, unobstructed

Authority for Requirement: DNR Construction Permit 14-A-197

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan 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-S201

Associated Equipment

Associated Emissions Unit ID Numbers: EU-S201
Emissions Control Equipment ID Number: CE-C201
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-S201
Emission Unit Description: Storage Bin
Raw Material/Fuel: Grain
Rated Capacity: 1,180,000

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⁾

⁽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).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 14-A-198

Pollutant: PM_{2.5}

Emission Limit(s): 0.02 lb/hr

Authority for Requirement: DNR Construction Permit 14-A-198

Pollutant: PM₁₀

Emission Limit(s): 0.03 lb/hr

Authority for Requirement: DNR Construction Permit 14-A-198

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf, 0.10 lb/hr

Authority for Requirement: 567 IAC 23.4(7) "c"
DNR Construction Permit 14-A-198

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

- A. The Storage Bin 1 (EU-S201) is not subject to any NSPS because there are no applicable categories at this time.
- B. The Storage Bin 1 (EU-S201) is not subject to any NESHAP, because there are no applicable categories at this time.

Operating Limits

Operating limits for this emission unit shall be:

- A. The permittee shall operate and maintain the control device (CE-C201) associated with the Storage Bin 1 (EU-S201) in accordance with manufacturer's specifications.

Reporting & Recordkeeping:

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

- A. The permittee shall keep records of all maintenance and repairs to the control device (CE-C201) associated with the Storage Bin 1 (EU-S201).

Authority for Requirement: DNR Construction Permit 14-A-198

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 25

Stack Opening, (inches, dia.): 30

Exhaust Flow Rate (scfm): 3,000

Exhaust Temperature (°F): 68

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 14-A-198

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan 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- S203

Associated Equipment

Associated Emissions Unit ID Numbers: EU-S203
Emissions Control Equipment ID Number: CE-C203
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-S203
Emission Unit Description: Wet Storage Bin
Raw Material/Fuel: Grain
Rated Capacity: 185,000 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⁾

⁽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).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 14-A-199

Pollutant: PM_{2.5}

Emission Limit(s): 0.02 lb/hr

Authority for Requirement: DNR Construction Permit 14-A-199

Pollutant: PM₁₀

Emission Limit(s): 0.03 lb/hr

Authority for Requirement: DNR Construction Permit 14-A-199

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf, 0.10 lb/hr

Authority for Requirement: 567 IAC 23.4(7) "c"
DNR Construction Permit 14-A-199

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

- A. The Wet Storage Bin 1 (EU-S203) is not subject to any NSPS because there are no applicable categories at this time.
- B. The Wet Storage Bin 1 (EU-S203) is not subject to any NESHAP, because there are no applicable categories at this time.

Operating Limits

Operating limits for this emission unit shall be:

- A. The permittee shall operate and maintain the control device (CE-C203) associated with the Wet Storage Bin 1 (EU-S203) in accordance with manufacturer's specifications.

Reporting & Recordkeeping

The following records shall be maintained on site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

- A. The permittee shall keep records of all maintenance and repairs to the control device (CE-C203) associated with the Wet Storage Bin 1 (EU-S203).

Authority for Requirement: DNR Construction Permit 14-A-199

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 25

Stack Opening, (inches, dia.): 30

Exhaust Flow Rate (scfm): 3,000

Exhaust Temperature (°F): 68

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 14-A-199

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan 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)

IV. General Conditions

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

G1. Duty to Comply

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

G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS 66129. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

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

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

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

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

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

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

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

G10. Recordkeeping Requirements for Compliance Monitoring

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

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

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

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

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

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

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

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

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

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

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

2. Excess Emissions Reporting

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

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

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

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

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

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

G15. Permit Deviation Reporting Requirements

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

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

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

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
 - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
 - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
 - d. The changes are not subject to any requirement under Title IV of the Act.
 - e. The changes comply with all applicable requirements.
 - f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), Recordkeeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

2. Minor Permit Modification.

- a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:
 - i. Do not violate any applicable requirements
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;
 - v. Are not modifications under any provision of Title I of the Act; and
 - vi. Are not required to be processed as significant modification.
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
 - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
 - ii. The permittee's suggested draft permit
 - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and

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

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the

owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

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

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
 - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
 - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
 - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
 - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

G25. Permit Shield

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

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results

of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

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

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

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

G31. Prevention of Air Pollution Emergency Episodes

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

567 IAC 26.1(1)

G32. Contacts List

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

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

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

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

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

Field Office 1

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

Field Office 3

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

Field Office 5

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

Polk County Public Works Dept.

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

Field Office 2

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

Field Office 4

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

Field Office 6

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

Linn County Public Health

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