

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

**Name of Permitted Facility: Lincolnway Energy, LLC**  
**Facility Location: 59511 West Lincoln Highway, Nevada, IA 50201**  
**Air Quality Operating Permit Number: 14-TV-002R1**  
**Expiration Date: October 31, 2023**  
**Permit Renewal Application Deadline: April 30, 2023**

**EIQ Number: 92-5064**  
**Facility File Number: 85-02-017**

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**Responsible Official**

**Name: Darrel Boll**  
**Title: Plant Manager**  
**Mailing Address: 59511 West Lincoln Highway, Nevada, IA 50201**  
**Phone #: (515) 817-0162**

**Permit Contact Person for the Facility**

**Name: Blake Good**  
**Title: EHS Manager**  
**Mailing Address: 59511 West Lincoln Highway, Nevada, IA 50201**  
**Phone #: (515) 817-0162**

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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**

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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
DDGS.....	dried distillers grains with solubles
°F .....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP .....	emission point
EU .....	emission unit
gr./dscf .....	grains per dry standard cubic foot
IAC.....	Iowa Administrative Code
DNR .....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
NSPS.....	new source performance standard
NESHAP .....	National Emission Standards for Hazardous Air Pollutants
ppmv .....	parts per million by volume
lb./hr .....	pounds per hour
lb./MMBtu .....	pounds per million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC .....	Standard Industrial Classification
TPY .....	tons per year
USEPA.....	United States Environmental Protection Agency

### Pollutants

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

# I. Facility Description and Equipment List

Facility Name: Lincolnway Energy LLC

Permit Number: 14-TV-002R1

Facility Description: Fuel Grade Ethanol (SIC 2869)

## Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
S20	P20	Grain Unloading	05-A-072-S3
S30	P30	Hammermilling	05-A-073-S2
S40	P40	Fermentation Process	05-A-081-S8
S50	P50, P100	Truck and Rail Ethanol Loadout	05-A-085-S6
S60	P60	Biomethanator Flare	05-A-095-S6
S61	P61	Denatured Ethanol Storage	05-A-074-S3
S62	P62	Denatured Ethanol Storage	05-A-075-S3
S63	P63	200 Proof Ethanol Storage	05-A-076-S3
S64	P64	Denaturant Storage	05-A-077-S3
S65	P65	190 Proof Ethanol Storage	05-A-078-S3
S66	P66	Additive Storage	05-A-079-S3
S67	P67	Ethanol Storage Tank #3	12-A-547-S3
S70	P70	DDGS Cooler	05-A-087-S8
S80	P80	Cooling Tower	05-A-084-S2
S81	F81	Dust Emission from Truck Traffic	05-A-080-S4
S82	P82	VOC Fugitive from Equipment Leaks	05-A-082-S4
S90	P90	DDGS Loadout	05-A-088-S7
S110	P110	Emergency Diesel Water Pump	05-A-083-S3
S130	P130.1	PureSteam™ Storage and Loadout Bins	05-A-090-S4
	P130.2		
S131	P131		17-A-717
S160	P160	Wet Cake Pad	11-A-458-S1
S170	P170A	DDGS Dryer #1	14-A-178-S3
	P170B	DDGS Dryer #2	
	P170C	DDGS Dryer #3	
	P172A	PureSteam™ Dryer #1	
	P172B	PureSteam™ Dryer #2	
	P171	Distillation Process	
S180	P180	Natural Gas Boiler (238 MMBtu/hr)	14-A-179-S2

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## Insignificant Activities Equipment List

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<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
EU1	Thin Stillage Tank Vent (146,000 gallons)
EU2	Syrup Tank (50,000 gallons)
EU3	Cook Water Tank (146,000 gallons)
EU4	Liquefaction Tank (64,700 gallons)
EU5	Whole Stillage Tank (146,000 gallons)
SU2	Steel Corn Bin

## II. Plant-Wide Conditions

Facility Name: Lincolnway Energy LLC  
Permit Number: 14-TV-002R1

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

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### Permit Duration

The term of this permit is: Five years from permit issuance  
Commencing on: November 1, 2018  
Ending on: October 31, 2023

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.

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### 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 (SO<sub>2</sub>): 500 parts per million by volume  
Authority for Requirement: 567 IAC 23.3(3)"e"

#### Particulate Matter:

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

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

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

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

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

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#### **40 CFR 60 Subpart A Requirements**

This facility is an affected source and these General Provisions apply to the facility. The affected units are EU-P61, EU-P62, EU-P63, EU-P64, EU-P65, EU-P67, EU-P180, and EU-P82.

See Appendix for the link of the Standard.

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

#### **40 CFR 60 Subpart Db Requirements**

This facility is subject to Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. The affected unit is EU-P180.

See Appendix for the link of the Standard.

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

#### **40 CFR 60 Subpart Kb Requirements**

This facility is subject to Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. The affected units are EU-P61, EU-P62, EU-P63, EU-P64, EU-P65, and EU-P67.

See Appendix for the link of the Standard.

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

#### **40 CFR 60 Subpart VV Requirements**

This facility is subject to Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006. The affected units are equipment in VOC service and any applicable devices and systems (as defined in 40 CFR 60.481) in the entire facility. The owner or operator shall comply with the applicable requirements in 40 CFR 60.480 through 60.489, including recordkeeping requirements in 40 CFR 60.486 and reporting requirements in 40 CFR 60.487.

See Appendix for the link of the Standard.

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

#### **40 CFR 63 Subpart A Requirements**

This facility is subject to National Emission Standard for Hazardous Air Pollutants – General Provisions. The affected units are EU-P40, EU-P64, EU- P82, EU-P110, EU-P170, and EU-P180.

See Appendix for the link of the Standard.

Authority for Requirement: 40 CFR 63 Subpart A  
567 IAC 23.1(4)

#### **40 CFR 63 Subpart FFFF Requirements**

This facility is subject to National Emission Standard for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing. The affected units are EU-P40, EU-P61, EU-P62, EU-P63, EU-P64, EU-P65, EU-P67, EU- P82, and EU-P170.

See Appendix for the link of the Standard.

Authority for Requirement: 40 CFR 63 Subpart FFFF

#### **40 CFR 63 Subpart ZZZZ Requirements**

This facility is subject to National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The affected unit is EU-P110.

See Appendix for the link of the Standard.

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

**40 CFR 63 Subpart DDDDD Requirements**

This facility is subject to National Emission Standard for Hazardous Air Pollutants for Industrial, Commercial, And Institutional Boilers and Process Heaters. The affected unit is EU-P180.

See Appendix for the link of the Standard.

Authority for Requirement: 40 CFR 63 Subpart DDDDD

### III. Emission Point-Specific Conditions

Facility Name: Lincolnway Energy LLC

Permit Number: 14-TV-002R1

#### Emission Point ID Number: S20

##### Associated Equipment

Associated Emission Unit ID Numbers: P20

Emissions Control Equipment ID Number: CE20

Emissions Control Equipment Description: Baghouse

EU	Emission Unit Description	Raw Material	Rated Capacity
P20	Grain Storage Silo #1	Corn	250,000 bushels
	Grain Storage Silo #2		250,000 bushels
	Corn Unloading (Receiving Pits)		30,000 bushels/hr
	Elevator Legs		15,000 bushels/hr
	Storage Bin Fill Conveyor		15,000 bushels/hr
	Storage Bin Emptying Conveyor		5,000 bushels/hr
	Corn Day Bin #1		20,000 bushels
	Corn Day Bin #2		20,000 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% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-072-S3

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

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 1.20 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-072-S3

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 1.20 lb/hr; 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 05-A-072-S3  
567 IAC 23.4(7)

### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The amount of corn received by this facility via truck and rail combined shall not exceed 27,777,778 bushels of corn per twelve (12) month rolling period, rolled monthly. No other feedstock may be used to make ethanol at this facility.
- B. The two grain bins (Corn Storage Bin #1 and Corn Storage Bin #2) shall be filled while under negative pressure control. The facility shall maintain the negative pressure control at all times while unloading with the negative pressure to be on a minimum of thirty minutes after the last truck and / or rail car is unloaded for the day. The two storage bins may have bin vents on them to allow for the bins to breath due to changes in atmospheric conditions.
- C. The owner or operator shall inspect and maintain the Unloading Baghouse (CE C20) according to the manufacturer's recommendation.
- D. The receiving of grain (shelled corn) shall be conducted within an enclosure. All grain unloading shall use choke flow and enclosed dump pits to minimize fugitive dust emissions.
- E. Grain unloading from straight trucks shall be conducted while the doors on both the entrance and exit of the unloading lane being used are closed.
- F. The Unloading Baghouse (CE C20) differential pressure drop shall be maintained between 0.25 and 8 inches of water column.

#### **Reporting and Recordkeeping**

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

- A. At the end of each month, record the amount of grain received (in bushels) over the previous month.
- B. At the end of each month, record the amount of grain received (in bushels) over the previous twelve (12) months.
- C. The owner or operator shall properly operate and maintain equipment to continuously monitor the differential pressure drop across the baghouse. The monitoring devices and any records shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals or per written facility specific operation and maintenance plan.
- D. The owner or operator shall collect and record the pressure drop across the baghouse, in inches of water, once per calendar day. This requirement shall not apply on days that the baghouse is not in operation. If visible emissions are observed at any time from the baghouse or baghouse exhaust, the owner or operator shall, as soon as practicable, investigate

the cause of the visible emissions and perform any corrective action that is necessary to eliminate the visible emissions.

- E. The owner/operator shall promptly investigate the emission unit and make corrections to operations or equipment when visible emissions are observed from the unloading activities.
- F. A log of all scheduled preventative maintenance and scheduled inspection activities performed on the Unloading Baghouse (CE C20). This log shall include, but is not necessarily limited to:
  - 1. The date and time any inspection and/or maintenance was performed on the Unloading Baghouse (CE C20);
  - 2. Any issues identified during the inspection and the date each issue was resolved;
  - 3. Any issues addressed during the maintenance activities and the date each issue was resolved; and
  - 4. Identification of the staff member performing the maintenance or inspection.
- G. Any deviations from the control equipment operating parameters detailed in the Operating Limits above shall be reported to the Department semi-annually (i.e. reporting period January 1 to June 30 to be submitted with a postmark date of September 30 and reporting period of July 1 to December 31 to be submitted with a postmark date of March 31). The report shall include:
  - 1. The identity of the equipment or source operation from which the deviation is being reported;
  - 2. The time and duration of the deviation;
  - 3. The cause of the deviation;
  - 4. The steps taken to remedy the deviation; and
  - 5. Whether the deviation resulted in excess emission.

Authority for Requirement: DNR Construction Permit 05-A-072-S3

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 80

Stack Opening, (inches, dia.): 42

Exhaust Flow Rate (scfm): 33,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-072-S3

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: S30

### Associated Equipment

Associated Emission Unit ID Numbers: P30  
Emissions Control Equipment ID Number: CE30  
Emissions Control Equipment Description: Baghouse

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EU	Emission Unit Description	Raw Material	Rated Capacity
P30	Hammermill #1	Corn	3,600 bushels/hr
	Hammermill #2		3,600 bushels/hr
	Unloading/Loading Baghouse from C20	Shake Out Material from C20	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% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-073-S2  
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.60 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-073-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.60 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-073-S2  
567 IAC 23.4(7)

#### Operational Limits & Requirements

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

#### **Operating Limits**

- A. The owner or operator shall inspect and maintain the baghouse according to the manufacturer's recommendation.

- B. The baghouse, CE30, differential pressure drop shall be maintained between 0.25 and 8 inches of water column.

### **Reporting and Recordkeeping**

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

- A. The owner or operator shall properly operate and maintain equipment to continuously monitor the differential pressure drop across the baghouse. The monitoring devices and any records shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals or per written facility specific operation and maintenance plan.
- B. The owner or operator shall collect and record the pressure drop across the baghouse, in inches of water, once per calendar day. This requirement shall not apply on days that the baghouse is not in operation. If visible emissions are observed at any time from the baghouse or baghouse exhaust, the owner or operator shall, as soon as practicable, investigate the cause of the visible emissions and perform any corrective action that is necessary to eliminate the visible emissions.
- C. The owner or operator shall maintain a log of all maintenance and inspection activities. This log shall include, but may not be limited to, the date and time of each inspection of the baghouse occurs, any items identified during the inspection that need to be addressed, the date each maintenance activity is performed, and a description of the corrective actions taken during the maintenance of the baghouse.
- D. Any deviations from the control equipment operating parameters detailed in Operating Limits of this permit shall be reported to the Department semi-annually (i.e. reporting period January 1 to June 30 to be submitted with a postmark date of September 30 and reporting period of July 1 to December 31 to be submitted with a postmark date of March 31). The report shall include:
- a. The identity of the equipment or source operation from which the deviation is being reported;
  - b. The time and duration of the deviation;
  - c. The cause of the deviation;
  - d. The steps taken to remedy the deviation; and
  - e. Whether the deviation resulted in excess emission.

Authority for Requirement: DNR Construction Permit 05-A-073-S2

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 80  
Stack Opening, (inches, dia.): 32  
Exhaust Flow Rate (scfm): 15,000  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-073-S2

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: S40

### Associated Equipment

Associated Emission Unit ID Numbers: P40

Emissions Control Equipment ID Number: CE-C40

Emissions Control Equipment Description: CO<sub>2</sub> Scrubber

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EU	Emission Unit Description	Raw Material	Rated Capacity
P40	Batch Mash Fermenter #1	Corn Mash	730,000 gallons
	Batch Mash Fermenter #2	Corn Mash	730,000 gallons
	Batch Mash Fermenter #3	Corn Mash	730,000 gallons
	Batch Mash Fermenter #4	Corn Mash	730,000 gallons
	Batch Mash Fermenter #5	Corn Mash	730,000 gallons
	Beer Well	Corn Mash	985,000 gallons

### Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-081-S8  
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.30 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-081-S8

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.30 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-081-S8  
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 11.50 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-081-S8

Pollutant: Organic HAP

Emission Limit(s): Table 2, 40 CFR Part 63 Subpart FFFF \*

Authority for Requirement: DNR Construction Permit 05-A-081-S8

40 CFR Part 63 Subpart FFFF

567 IAC 23.1(4)"cf"

\*Facility chose  $\leq 20$  ppmv total organic HAP option

### **Operating Requirements with Associated Monitoring and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 comply with the applicable standards in 40 CFR Part 63, Subparts A [§63.1 - §63.15] and FFFF [§63.2430 - §63.2550], including those not specifically mentioned in this permit by no later than sixty days from the issuance date of Construction Permit 05-A-081-S8 (2/26/2018).
  - i. The owner or operator shall complete and maintain an evaluation demonstrating that the fermentation process described in this permit does not meet the definition of “*continuous process vent*” in §63.2550.

### **NESHAP Requirements**

- B. As required by 40 CFR §63.6(e), the owner or operator shall develop and implement a written startup, shutdown, and malfunction plan (SSMP), unless otherwise excluded within the applicable standards.
- C. Per 40 CFR §63.2450(a) and as indicated in §63.2460, the owner or operator of equipment associated with batch process vents as defined in §63.2550 shall comply with the applicable emission limits and work practice standards in Table 2 to Subpart FFFF of Part 63 at all times, except during periods of startup, shutdown, and malfunction (SSM).
- D. As required by 40 CFR §63.2450(e)(1), the owner or operator reducing organic HAP emissions through a closed-vent system to any combination of control devices (except a flare) shall comply with the applicable requirements in §63.982(c) and the requirements reference therein.
- E. The owner or operator shall comply with all applicable requirements in 40 CFR §63.2460 for batch process vents, including, but not limited §63.2460(c)(3) – *Establishing of operating limits*.
- F. The owner or operator shall comply with the applicable notification, reporting, and recordkeeping requirements in 40 CFR §63.2515, §63.2520, and §63.2525, respectively.

### **CO<sub>2</sub> Scrubber C40 Operation Requirements**

- G. The owner or operator shall operate CO<sub>2</sub> Scrubber C40 at all times any of the equipment associated with this air pollution control device is in operation.
  - i. The owner or operator shall operate CO<sub>2</sub> Scrubber C40 until the fermentation cycles have been completed during plant shutdown.

- H. The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the pressure drop (in inches of water column) across CO<sub>2</sub> Scrubber C40. This equipment shall be installed, operated, and maintained in accordance with the facility's operation and maintenance plan.
  - i. The daily (calendar day) average pressure drop across CO<sub>2</sub> Scrubber C40 shall be maintained at the level determined using the procedures in 40 CFR §63.2460(c)(3) that demonstrated compliance with all applicable emission limits during the most recent compliance test.
    - 1. The owner or operator shall record and maintain the acceptable average pressure drop range (in inches of water column) determined using the procedures in 40 CFR §63.2460(c)(3) that demonstrated compliance with all applicable emission limits during the most recent compliance test.
    - 2. The owner or operator shall establish an alarm setting for the purpose of initiating corrective action based on the acceptable average pressure drop range determined using the procedures in 40 CFR §63.2460(c)(3) that demonstrated compliance with all applicable emission limits during the most recent compliance test.
  - ii. The owner or operator shall collect and record the pressure drop (in inches of water column) across CO<sub>2</sub> Scrubber C40 at a minimum of once every 15 minutes and calculate and record the average pressure drop based on a daily (calendar day) average.
  - iii. If the daily (calendar day) average pressure drop falls outside of the acceptable range, the owner or operator shall record the time, date, and actions taken to correct the situation and also when the average pressure drop is back within the acceptable range.
- I. The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the water feed rate (in gallons per minute) into CO<sub>2</sub> Scrubber C40. This equipment shall be installed, operated, and maintained in accordance with the facility's operation and maintenance plan.
  - i. The daily (calendar day) average water feed rate into CO<sub>2</sub> Scrubber C40 shall be maintained at the level determined using the procedures in 40 CFR §63.2460(c)(3) that demonstrated compliance with all applicable emission limits during the most recent compliance test.
    - 1. The owner or operator shall record and maintain the acceptable average scrubbing liquid flow rate range (in gallons per minute) determined using the procedures in 40 CFR §63.2460(c)(3) that demonstrated compliance with all applicable emission limits during the most recent compliance test.
  - ii. The owner or operator shall collect and record the scrubbing liquid flow rate (in gallons per minute) into CO<sub>2</sub> Scrubber C40 at a minimum of once every 15 minutes and calculate and record the average scrubbing liquid flow rate based on a daily (calendar day) average.
  - iii. If the daily (calendar day) average scrubbing liquid flow rate falls outside of the acceptable range, the owner or operator shall record the time, date, and actions taken to correct the situation and also when the average scrubbing liquid flow rate is back within the acceptable range.
- J. The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the additive feed rate (in milliliters per minute) into CO<sub>2</sub> Scrubber C40.

This equipment shall be installed, operated, and maintained in accordance with the facility's operation and maintenance plan.

- i. The daily (calendar day) average additive feed rate into CO<sub>2</sub> Scrubber C40 shall be maintained at the level determined using the procedures in 40 CFR §63.2460(c)(3) that demonstrated compliance with all applicable emission limits during the most recent compliance test.
    1. The owner or operator shall record the and maintain the acceptable average additive feed rate range (in milliliters per minute) determined using the procedures in 40 CFR §63.2460(c)(3) that demonstrated compliance with all applicable emission limits during the most recent compliance test.
  - ii. The owner or operator shall collect and record the additive feed rate (in milliliters per minute) into CO<sub>2</sub> Scrubber C40 at a minimum of once every 15 minutes and calculate and record the average additive feed rate based on a daily (calendar day) average.
  - iii. If the daily (calendar day) average additive feed rate falls outside of the acceptable average range, the owner or operator shall record the time, date, and actions taken to correct the situation and also when the average additive feed rate is back within the acceptable range.
- K. The owner or operator shall maintain on-site a copy of the most recent stack test report detailing pressure drop, scrubbing liquid flow rate, and any additive feed rate measured during the most recent stack test that demonstrated compliance with the applicable emission limitations.
- L. The owner or operator shall inspect and maintain CO<sub>2</sub> Scrubber C40 according to the manufacturer's specifications and/or the facility's (Plant No. 85-02-017) operation and maintenance plan.
- i. The owner or operator shall keep a log of all maintenance and inspection activities performed on CO<sub>2</sub> Scrubber C40. At a minimum, this log shall include:
    1. The date that any inspection and/or maintenance was performed on CO<sub>2</sub> Scrubber C40;
    2. Any issues identified during the inspection;
    3. Any issues addressed during the maintenance activities and the date each issue was resolved; and
    4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 05-A-081-S8

### **NSPS and NESHAP Applicability**

This facility is subject to the National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing [40 CFR Part 63 Subpart FFFF], and these emission units are affected sources. This emission point is a Group 1 Batch Process Vent. This facility is also subject to 40 CFR Part 63 Subpart A – General Provisions.

Authority for Requirement: DNR Construction Permit 05-A-081-S8  
40 CFR Part 63 Subpart FFFF  
567 IAC 23.1(4)"cf"

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 80  
Stack Opening, (inches, dia.): 24  
Exhaust Flow Rate (scfm): 6,000  
Exhaust Temperature (°F): 68  
Discharge Style: Vertical, Unobstructed  
Authority for Requirement: DNR Construction Permit 05-A-081-S8

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

### **Monitoring Requirements**

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

#### **Stack Testing:**

Pollutant – Volatile Organic Compounds (VOC)  
1st Stack Test to be Completed – Annually <sup>(1)</sup> <sup>(3)</sup>  
Test Method – 40 CFR Part 63 Appendix A Method 320 or  
40 CFR Part 60 Appendix A Method 18  
Authority for Requirement - DNR Construction Permit 05-A-081-S8

Pollutant – Organic HAP  
1st Stack Test to be Completed – <sup>(2)</sup> <sup>(3)</sup>  
Test Method – 40 CFR Part 63 Appendix A Method 320 or  
40 CFR Part 60 Appendix A Method 18  
Authority for Requirement - DNR Construction Permit 05-A-081-S8

- <sup>(1)</sup> VOC initial testing shall be completed once within 60 days after achieving the maximum production rate while the proposed fermenter is operating, but no later than 180 days after the initial startup date of the proposed fermenter. The VOC periodic testing shall be completed annually during the months of June, July, or August.
- <sup>(2)</sup> All Organic HAP testing shall be completed on the schedule required by 40 CFR Part 63, Subpart FFFF (§63.2430 - §63.2550). If 98% percent reduction from Table 2 of Subpart FFFF is chosen, then the organic HAP inlet and outlet emission rates shall be measured simultaneously at each required test.
- <sup>(3)</sup> Testing shall be conducted while all affected equipment is operating in a worst-case scenario, e.g., highest production rate, highest exhaust flow rate, etc.

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: S50

### Associated Equipment

Associated Emission Unit ID Numbers: P50, P100

Emissions Control Equipment ID Number: CE-C50

Emissions Control Equipment Description: Vapor Combustor (6.4 MMBtu/hr)

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EP	EU	Emission Unit Description	Raw Material/Fuel	Rated Capacity (gal/hr)
S50	P50	Truck Fuel Ethanol Product Loadout	Fuel Ethanol	36,000
	P100	Rail Fuel Ethanol Product Loadout	Fuel Ethanol	72,000

### 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): No Visible Emissions <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-085-S6  
567 IAC 23.3(2)"d"

<sup>(1)</sup> Vapor Combustor CE-C50 shall operate with no visible emissions, except for periods not exceeding a total of 5 minutes during any 2 consecutive hours.

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.20 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-085-S6

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.20 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-085-S6  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.10 tons/yr; 500 ppmv

Authority for Requirement: DNR Construction Permit 05-A-085-S6  
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 2.00 tons/yr

Authority for Requirement: DNR Construction Permit 05-A-085-S6

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 17.32 tons/yr  
Authority for Requirement: DNR Construction Permit 05-A-085-S6

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 10.40 tons/yr  
Authority for Requirement: DNR Construction Permit 05-A-085-S6

**Operating Requirements with Associated Monitoring and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 comply with the applicable standards in 40 CFR Part 63, Subparts A [§63.1 - §63.15] and FFFF [§63.2430 - §63.2550], including those not specifically mentioned in this permit by no later than 60 days from the issuance date of Construction Permit 05-A-085-S6 (2/26/2018).

**NESHAP Requirements**

- B. The owner or operator of a Group 2 transfer rack shall load liquid products that contain organic hazardous air pollutants with a rack weighted average vapor pressure of less than 1.5 pound per square inch absolute.
  - i. The owner or operator shall maintain on-site records demonstrating that the rack weighted average organic HAP vapor pressure meets the requirements of a Group 2 transfer rack.

**Equipment Operation and Throughput Limits Requirements**

- C. The total amount of fuel ethanol product loaded out at Plant Number 85-02-017 by truck and rail combined shall not exceed 110 million gallons per rolling twelve-month period.
  - i. The owner or operator shall record the total amount of fuel ethanol product, in gallons, loaded out at the facility on a monthly basis.
  - ii. The owner or operator shall calculate and record the total amount of fuel ethanol product, in gallons, loaded out at the facility on a rolling 12-month basis.

**Control Equipment Requirements**

- D. The owner or operator shall operate Vapor Combustor CE-C50 at all times that emissions are vented to it.
- E. Vapor Combustor CE-C50 shall be designed for and operated with no visible emissions, except for periods not exceeding a total of 5 minutes during any 2 consecutive hours.
- F. Vapor Combustor CE-C50 shall be operated with a pilot flame present at all times. The presence of a pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.

- i. The owner or operator shall continuously verify the output of the flame detection system indicating the presence of a flame while loading.
- G. The owner or operator shall inspect and maintain Vapor Combustor CE-C50 according to the manufacturer's specifications and/or the facility's (Plant No. 85-02-017) operation and maintenance plan.
  - i. The owner or operator shall keep a log of all maintenance and inspection activities performed on Vapor Combustor CE-C50. At a minimum, this log shall include:
    - 1. The date that any inspection and/or maintenance was performed on Vapor Combustor CE-C50;
    - 2. Any issues identified during the inspection;
    - 3. Any issues addressed during the maintenance activities and the date each issue was resolved; and
    - 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 05-A-085-S6

### **NSPS and NESHAP Applicability**

This facility is subject to the National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing [40 CFR Part 63 Subpart FFFF], and these emission units are affected sources. However, this unit is classified as a Group 2 Transfer Rack with no requirements under the subpart. This facility is also subject to 40 CFR Part 63 Subpart A – General Provisions.

Authority for Requirement: DNR Construction Permit 05-A-085-S6  
40 CFR Part 63 Subpart FFFF  
567 IAC 23.1(4)"cf"

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 36

Stack Opening, (inches, dia.): 30

Exhaust Flow Rate (scfm): 1,500

Exhaust Temperature (°F): 1800

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-085-S6

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

**Monitoring Requirements**

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

Visible emissions shall be observed on a weekly basis to ensure none occur when the emission unit on this emission point is at or near full capacity. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible emissions readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

**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 Emission Unit ID Numbers: P60

Emissions Control Equipment ID Number: CE-C60

Emissions Control Equipment Description: Enclosed Flare (6.4 MMBtu/hr)

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EP	EU	Emission Unit Description	Raw Material	Rated Capacity (cf/hr)
S60	P60A	Methanator #1	Biogas	3,000
	P60B	Methanator #2	Biogas	3,000

### 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% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-095-S6  
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM<sub>2.5</sub>)

Emission Limit(s): 0.10 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-095-S6

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.10 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-095-S6

Pollutant: Particulate Matter (PM)

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

Authority for Requirement: DNR Construction Permit 05-A-095-S6  
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.60 lb/hr; 500 ppmv

Authority for Requirement: DNR Construction Permit 05-A-095-S6  
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)  
Emission Limit(s): 0.70 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-095-S6

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 0.10 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-095-S6

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 0.03 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-095-S6

### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The Enclosed Flare (CE60) shall be maintained and operated according to the specifications and requirements specified in 40 CFR Part 60 §60.18(b).

#### **Reporting and Recordkeeping**

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

- A. The owner or operator shall maintain records that Enclosed Flare (CE-60) complies with the specifications and requirements specified in 40 CFR Part 60 §60.18(b).
- B. Maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of Enclosed Flare (CE60).

Authority for Requirement: DNR Construction Permit 05-A-095-S6

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 11  
Stack Opening, (inches, dia.): 17  
Exhaust Flow Rate (scfm): 750  
Exhaust Temperature (°F): 1,800  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 05-A-095-S6

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

emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Numbers: S61 and S62

### Associated Equipment

Associated Emission Unit ID Numbers: P61, P62

Emissions Control Equipment ID Number: CE C61, CE C62

Emissions Control Equipment Description: Internal Floating Roof

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EP	EU	Emission Unit Description	Raw Material	Maximum Capacity (gallons)
S61	P61	Ethanol Storage Tank #1	Denatured Ethanol	1,000,000
S62	P62	Ethanol Storage Tank #2	Denatured Ethanol	1,000,000

### Applicable Requirements

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

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

Emission limits are not required at this time.

#### Operational Limits & Requirements

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

#### **Operating Limits**

- A. These tanks shall be used to store only 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 and Recordkeeping**

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

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

Authority for Requirement: DNR Construction Permits 05-A-074-S3; 05-A-075-S3

**NSPS and NESHAP Applicability**

These emission units are 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”). This emission unit is also subject to the General Provisions (40 CFR Part 60 Subpart A).

Authority for Requirement: DNR Construction Permits 05-A-074-S3; 05-A-075-S3  
 40 CFR Part 60 Subpart Kb  
 567 IAC 23.1(2)"ddd"

This facility is subject to the National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing [40 CFR Part 63 Subpart FFFF], and these emission units are affected sources. However, these units are classified as Group 2 Storage Tanks with no requirements under the subpart. This facility is also subject to 40 CFR Part 63 Subpart A – General Provisions.

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

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

	EP-S61 and EP-S62	
	6 vents	1 vent
Stack Height (ft, from the ground)	47	51
Stack Opening	386.66 in <sup>2</sup> each	10 in dia.
Exhaust Flow Rate (scfm)	Working/Breathing Loss	Working/Breathing Loss
Exhaust Temperature (°F)	Ambient	Ambient
Discharge Style	Horizontal	Downward
Authority for Requirement	DNR Construction Permit 05-A-074-S3 DNR Construction Permit 05-A-075-S3	

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: S63**

### Associated Equipment

Associated Emission Unit ID Numbers: P63

Emissions Control Equipment ID Number: CE63

Emissions Control Equipment Description: Internal Floating Roof

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Emission Unit vented through this Emission Point: P63

Emission Unit Description: 200 Proof Ethanol Storage Tank

Raw Material/Fuel: 200 Proof Ethanol

Rated Capacity: 165,000 gallons

### **Applicable Requirements**

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

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

Emission limits are not required at this time.

#### **Operational Limits & Requirements**

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

#### **Operating Limits**

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

#### **Reporting and Recordkeeping**

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

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

Authority for Requirement: DNR Construction Permit 05-A-076-S3

## **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”). This emission unit is also subject to the General Provisions of Subpart A of the NSPS 40 CFR Part 60.

Authority for Requirement: DNR Construction Permit 05-A-076-S3  
40 CFR Part 60 Subpart Kb  
567 IAC 23.1(2)"ddd"

This facility is subject to the National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing [40 CFR Part 63 Subpart FFFF], and this emission unit is an affected source. However, this unit is classified as a Group 2 Storage Tank source with no requirements under the subpart. This facility is also subject to 40 CFR Part 63 Subpart A – General Provisions.

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

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

	<b>6 vents</b>	<b>1 vent</b>
Stack Height (ft, from the ground)	48	52
Stack Opening	380 in <sup>2</sup>	10 in dia.
Exhaust Flow Rate (scfm)	Working/Breathing Loss	Working/Breathing Loss
Exhaust Temperature (°F)	Ambient	Ambient
Discharge Style	Horizontal	Downward
Authority for Requirement	DNR Construction Permit 05-A-076-S3	

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: S64**

### Associated Equipment

Associated Emission Unit ID Numbers: P64

Emissions Control Equipment ID Number: CE C64

Emissions Control Equipment Description: Internal Floating Roof

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Emission Unit vented through this Emission Point: P64

Emission Unit Description: Denaturant Storage Tank

Raw Material/Fuel: Denaturant

Rated Capacity: 165,000 gallons

### **Applicable Requirements**

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

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

Emission limits are not required at this time.

#### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. This tank shall be used to store only denaturant.
- B. The facility-wide use of denaturant shall not exceed a maximum of 3,100,000 gallons per twelve (12) month period, rolled monthly.
- C. 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 and Recordkeeping**

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

- A. At the end of each month, record the amount of denatured ethanol produced at this facility over the previous month.
- B. At the end of each month, record the amount of denatured ethanol produced at this facility over the previous twelve (12) months.
- C. The owner or operator shall follow the applicable recordkeeping and reporting standards of Subpart Kb, 40 CFR §60.115b through §60.116b.
- D. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of

the source.

Authority for Requirement: DNR Construction Permit 05-A-077-S3

- A. On a monthly basis, record and calculate the rolling 12-month total for denaturant used facility-wide.

Authority for Requirement: 567 IAC 22.108(3)

**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”). This emission unit is also subject to the General Provisions of Subpart A of the NSPS 40 CFR Part 60.

Authority for Requirement: DNR Construction Permit 05-A-077-S3  
40 CFR Part 60 Subpart Kb  
567 IAC 23.1(2)"ddd"

This facility is subject to the National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing [40 CFR Part 63 Subpart FFFF], and this emission unit is an affected source as a Group 1 Storage Tank. This facility is also subject to 40 CFR Part 63 Subpart A – General Provisions.

Per 40 CFR 63.2535(c), the facility complies with this subpart by complying with the requirements of 40 CFR 60 Subpart Kb.

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

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

	<b>6 vents</b>	<b>1 vent</b>
Stack Height (ft, from the ground)	48	52
Stack Opening	380 in <sup>2</sup> each	10 in dia.
Exhaust Flow Rate (scfm)	Working/Breathing Loss	Working/Breathing Loss
Exhaust Temperature (°F)	Ambient	Ambient
Discharge Style	Horizontal	Downward
Authority for Requirement	DNR Construction Permit 05-A-077-S3	

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

emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: S65**

### Associated Equipment

Associated Emission Unit ID Numbers: P65

Emissions Control Equipment ID Number: CE C65

Emissions Control Equipment Description: Internal Floating Roof

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Emission Unit vented through this Emission Point: P65

Emission Unit Description: 190 Proof Ethanol Storage Tank

Raw Material/Fuel: 190 Proof Ethanol

Rated Capacity: 165,000 gallons

### **Applicable Requirements**

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

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

Emission limits are not required at this time.

#### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. This tank shall be used to store only 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 and Recordkeeping**

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

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

Authority for Requirement: DNR Construction Permit 05-A-078-S3

## 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”). This emission unit is also subject to the General Provisions of Subpart A of the NSPS 40 CFR Part 60.

Authority for Requirement: DNR Construction Permit 05-A-078-S3  
40 CFR Part 60 Subpart Kb  
567 IAC 23.1(2)"ddd"

This facility is subject to the National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing [40 CFR Part 63 Subpart FFFF], and this emission unit is an affected source. However, this unit is classified as a Group 2 Storage Tank with no requirements under the subpart. This facility is also subject to 40 CFR Part 63 Subpart A – General Provisions.

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

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

	<b>6 vents</b>	<b>1 vent</b>
Stack Height (ft, from the ground)	48	52
Stack Opening	380.0 in <sup>2</sup> each	10 in dia.
Exhaust Flow Rate (scfm)	Working/Breathing Loss	Working/Breathing Loss
Exhaust Temperature (°F)	Ambient	Ambient
Discharge Style	Horizontal	Downward
Authority for Requirement	DNR Construction Permit 05-A-078-S3	

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: S66**

### Associated Equipment

Associated Emission Unit ID Numbers: P66  
Emissions Control Equipment ID Number: CE C66  
Emissions Control Equipment Description: Fixed Roof

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Emission Unit vented through this Emission Point: P66  
Emission Unit Description: Additive Storage Tank  
Raw Material/Fuel: Corrosion Inhibitor  
Rated Capacity: 2300 gallons

### **Applicable Requirements**

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

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

Emission limits are not required at this time.

#### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The facility is limited to storing a maximum of 8,000 gallons of additive per rolling 12-month period.

#### **Reporting and Recordkeeping**

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

- A. Record on a monthly basis the amount of additive stored in gallons to this tank.
- B. Record and calculate the rolling 12-month total for additive stored in gallons to this tank.

Authority for Requirement: DNR Construction Permit 05-A-079-S3

#### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 8  
Stack Opening, (square inches): 314.8  
Exhaust Flow Rate (scfm): Working/Breathing Loss

Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical, Obstructed  
Authority for Requirement: DNR Construction Permit 05-A-079-S3

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: S67**

### Associated Equipment

Associated Emission Unit ID Numbers: P67

Emissions Control Equipment ID Number: CE-C67

Emissions Control Equipment Description: Internal Floating Roof

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Emission Unit vented through this Emission Point: P67

Emission Unit Description: Ethanol Storage Tank #3

Raw Material/Fuel: Denatured or Undenatured Ethanol (produced on-site or off-site)

Rated Capacity: 1,000,000 gallons

### **Applicable Requirements**

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

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

There are no applicable emission limits at this time.

#### **Operating Requirements with Associated Monitoring and Recordkeeping**

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

#### **Material Usage Requirements**

- A. The material stored in Ethanol Storage Tank #3 (EU-P67) shall be limited to denatured or undenatured ethanol (produced on-site or off-site).
- B. The total material throughput for Ethanol Storage Tank #3 (EU-P67) shall not exceed 34 million gallons per rolling 12-month period.
  - i. The owner or operator shall record the material throughput, in gallons, for Ethanol Storage tank #3 (EU-P67) on a monthly basis.
  - ii. The owner or operator shall calculate and record the material throughput, in gallons, for Ethanol Storage Tank #3 (EU-P67) on a rolling 12-month basis.

#### **New Source Performance Standards Requirements**

- C. The owner or operator shall comply with the applicable requirements in 40 CFR Part 60, Subpart Kb [§60.110b – §60.117b], including those not specifically mentioned in this permit.
  - i. In accordance with 40 CFR §60.112b(a)(1), the Internal Floating Roof CE-C67 shall meet the following specifications:
    - 1. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a

fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

2. Each internal floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof:
  - a. A foam- or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal).<sup>1</sup>
  - b. Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.
  - c. A mechanical shoe seal.<sup>2</sup>
3. Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface.
4. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use.
5. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.
6. Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.
7. Each penetration of the internal floating for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.
8. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.
9. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

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<sup>1</sup> A *liquid-mounted seal* means a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank.

<sup>2</sup> A *mechanical shoe seal* is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and it is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.

- ii. The owner or operator shall inspect the Internal Floating Roof CE-C67 per the requirements of 40 CFR §60.113b(a).
  - iii. The owner or operator shall comply with the applicable monitoring requirements in 40 CFR §60.116b.
  - iv. Per 40 CFR §60.116b(b), the owner or operator shall keep readily accessible records showing the dimension of Ethanol Storage Tank #3 (EU-Ps7) and an analysis showing the capacity of these vessels. These records shall be kept on-site for the life of the unit.
- D. The owner or operator shall comply with the applicable requirements in 40 CFR Part 60, Subpart VV [§60.480 – §60.489], as specified in the permit issued to Plant No. 85-02-017 for “VOC Emissions from Equipment Leaks.”

Authority for Requirement: DNR Construction Permit 12-A-547-S3

**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”). This emission unit is also subject to the General Provisions of Subpart A of the NSPS 40 CFR Part 60.

Authority for Requirement: DNR Construction Permit 12-A-547-S3  
 40 CFR Part 60 Subpart Kb  
 567 IAC 23.1(2)"ddd"

Authority for Requirement: DNR Construction Permit 12-A-547-S3

This facility is subject to the National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing [40 CFR Part 63 Subpart FFFF], and this emission unit is an affected source. However, this unit is classified as a Group 2 Storage Tank with no requirements under the subpart. This facility is also subject to 40 CFR Part 63 Subpart A – General Provisions.

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

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

	<b>6 vents</b>	<b>1 vent</b>
Stack Height (ft, from the ground)	47	51
Stack Opening	386.66 in <sup>2</sup> each	10 in dia.
Exhaust Flow Rate (scfm)	Working/Breathing Loss	Working/Breathing Loss
Exhaust Temperature (°F)	Ambient	Ambient
Discharge Style	Horizontal	Downward
Authority for Requirement	DNR Construction Permit 12-A-547-S3	

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: S70**

### Associated Equipment

Associated Emission Unit ID Numbers: P70  
Emissions Control Equipment ID Number: CE70  
Emissions Control Equipment Description: Baghouse

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Emission Unit vented through this Emission Point: P70  
Emission Unit Description: DDGS Cooler  
Raw Material/Fuel: DDGS  
Rated Capacity: 28.5 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% <sup>(1)</sup>  
Authority for Requirement: DNR Construction Permit 05-A-087-S8  
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM<sub>10</sub>)  
Emission Limit(s): 0.80 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-087-S8

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.80 lb/hr; 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 05-A-087-S8  
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 11.50 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-087-S8

Pollutant: Acetaldehyde  
Emission Limit(s): 1.60 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-087-S8

Pollutant: Other Single HAP  
Emission Limit(s): 0.50 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-087-S8

Pollutant: Total HAP  
Emission Limit(s): 3.00 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-087-S8

**Operating Requirements with Associated Monitoring and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DDGS Cooler (EU-P70) is limited to processing a maximum of 16.6 tons of product/hour, based on a daily average.
  - i. The owner or operator shall maintain records of the total amount of product, in tons, processed by the DDGS Cooler (EU-P70) on a daily basis.
  - ii. The owner or operator shall maintain records of the total number of hours that the DDGS Cooler (EU-P70) operated on a daily basis.
  - iii. The owner or operator shall calculate and maintain records of the daily average production rate, in tons/hour, for the DDGS Cooler (EU-P70).
- B. The owner or operator shall maintain a pressure drop across Baghouse C70 between 0.25 and 8 inches of water column.
  - i. The owner or operator shall record the pressure drop, in inches of water column, across Baghouse C70 on a daily basis. This requirement shall not apply when the DDGS Cooler (EU-P70) is not in operation.
  - ii. The owner or operator shall install a pressure drop monitoring device that shall be operated and maintained according to the manufacturer's recommendations, instructions, and operating manuals, or per written facility specific operation and maintenance plan.
  - iii. If the pressure drop deviates below the minimum required, the owner or operator shall record the time, date, and actions taken to correct the situation. The owner or operator shall also record when the pressure drop across Baghouse C70 has returned to or above the minimum pressure drop required. \*
- C. At any time that visible emissions from EP-S70 are observed, the owner or operator shall, as soon as practical, investigate the cause of the visible emissions and perform any corrective actions necessary to eliminate the visible emissions.
- D. The owner or operator shall inspect and maintain Baghouse C70 according to the manufacturer's specifications and instructions and/or the facility's (Plant No. 85-02-017) operation and maintenance plan.
  - i. The owner or operator shall keep a log of all maintenance and inspection activities performed on Baghouse C70. At a minimum, this log shall include:
    - 1. The date that any inspection and/or maintenance was performed on the baghouse;
    - 2. Any issues identified during the inspection;

3. Any issues addressed during the maintenance activities and the date each issue as resolved; and
4. Identification of the staff member performing the maintenance or inspection.

\*The same recordkeeping shall be kept if the pressure drop deviated above the maximum allowed.

Authority for Requirement: DNR Construction Permit 05-A-087-S8

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 60

Stack Opening, (inches, dia.): 36

Exhaust Flow Rate (scfm): 25,000 ± 10%

Exhaust Temperature (°F): 110

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-087-S8

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

### **Monitoring Requirements**

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

#### **Stack Testing:**

Pollutant – Volatile Organic Compounds (VOC)

1st Stack Test to be Completed – Annually <sup>(1)</sup>

Test Method – 40 CFR Part 63 Appendix A Method 320 or  
40 CFR Part 60 Appendix A Method 18

Authority for Requirement - DNR Construction Permit 05-A-087-S8

Pollutant – Organic HAP

1st Stack Test to be Completed – Annually <sup>(1) (2)</sup>

Test Method – 40 CFR Part 63 Appendix A Method 320 or  
40 CFR Part 60 Appendix A Method 18

Authority for Requirement - DNR Construction Permit 05-A-087-S8

<sup>(1)</sup> The owner or operator shall continue the pre-established annual VOC and HAP periodic testing during the months of June, July, or August.

- (2) Acetaldehyde, acrolein, formaldehyde, and methanol shall be tested for specifically. The specified HAP that tests below the detection limit shall be assumed to be emitting at a rate equal to the detection limit.

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: S80**

### Associated Equipment

Associated Emission Unit ID Numbers: P80  
Emissions Control Equipment ID Number: CE80  
Emissions Control Equipment Description: Demister

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Emission Unit vented through this Emission Point: P80  
Emission Unit Description: Cooling Tower  
Raw Material/Fuel: Cooling Water  
Rated Capacity: 1.5 Million 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%  
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM<sub>10</sub>)  
Emission Limit(s): 6.90 tons/yr <sup>(1)</sup>  
Authority for Requirement: DNR Construction Permit 05-A-084-S2

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 6.90 tons/yr <sup>(1)</sup>; 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 05-A-084-S2  
567 IAC 23.3(2)"a"

<sup>(1)</sup> PM and PM<sub>10</sub> are assumed to be equivalent. The limit is based on drift loss and total dissolved solids (TDS) limit of 2,500 parts per million by weight (2,500 mg / L). The limit is established to restrict potential emissions below applicable PSD "major source" thresholds. Compliance demonstration is based on mass balance approach. See Section "Operating Limits & Requirements" for details.

#### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The Total Dissolved Solids (TDS) concentration in the cooling water shall not exceed 2,500 parts per million by weight (2,500 mg/L) for any single sampling event.
- B. Maintain the Cooling Tower (EU-P80) according to manufacturer specifications and maintenance schedule.

C. Biocide or additive used in the cooling water shall not contain any VOC or HAP.

**Reporting and Recordkeeping**

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

- A. The owner or operator shall complete an analysis of the Total Dissolved Solids (TDS) concentration in the cooling water at least once for each calendar month Cooling Tower (EU-P80) is in operation. The requirement for pre-test notifications, test protocols, and pre-test meeting notifications are not required to be completed.
- B. Maintain a record of all inspections/maintenance and any action resulting from the inspection / maintenance of the Cooling Tower (EU-P80).
- C. Maintain onsite a copy of the Material Safety Data Sheet (MSDS) of any biocide or additive used in the cooling water detailing VOC and/or HAP content.

Authority for Requirement: DNR Construction Permit 05-A-084-S2

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 33 per cell

Stack Opening, (inches, dia.): 648 per cell

Exhaust Flow Rate (scfm): 532,100

Exhaust Temperature (°F): 85

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-084-S2

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: S81**

### Associated Equipment

Associated Emission Unit ID Numbers: P81

Emissions Control Measure Description: Paved Road Sweeping with a maximum silt load of 2.6 g/m<sup>2</sup>

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Emission Unit vented through this Emission Point: P81

Emission Unit Description: Fugitive Dust Emissions from Traffic

Raw Material/Fuel: Fugitive Dust

Rated Capacity: 2.6 g/m<sup>2</sup>

### **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): <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-080-S4  
567 IAC 23.3(2)"c"

<sup>(1)</sup> The owner or operator shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property.

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 6.11 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 05-A-080-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 30.53 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 05-A-080-S4

<sup>(2)</sup>Particulate emission limit based on silt content of 2.58 grams per square meter, and all raw material/product is shipped or received by truck. See "Operational Limits & Requirements" for details.

#### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The haul road(s) surface silt loading shall not exceed 2.6 g / m<sup>2</sup>.
- B. Fugitive emissions on the paved haul road(s) shall be controlled by sweeping twice per week with a minimum of one day between sweeping events except as noted below in conditions (i), (ii), and (iii). The sweeper type must be at minimum an enclosed sweeper type.

- (i) If sweeping cannot be accomplished because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35<sup>0</sup> F (1.7<sup>0</sup> C) or conditions due to weather could create hazardous driving conditions, then the sweeping shall be postponed and accomplished as soon after the scheduled date as the conditions preventing the sweeping have abated.
  - (ii) Paved road sweeping need not occur when a rain gauge located at the site indicates that at least 0.2 inches of precipitation (water equivalent) has occurred within the preceding 24-hour time period. However, paved road sweeping shall resume within 24-hours after the precipitation event has ended.
  - (iii) Paved road sweeping need not occur any day the haul roads have been treated for inclement weather.
- C. All haul road(s) at the facility shall be paved.
  - D. The speed limit shall be posted on the haul road(s).
  - E. The facility shall use Best Management Practices in minimizing emissions from the haul road(s).
  - F. All spills on the haul road(s) shall be cleaned up immediately.

### **Reporting and Recordkeeping**

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

- A. Performance testing on the haul road surface silt loading shall be completed on a quarterly basis. For each performance test, silt loading sampling shall be done for at least 3 different locations. Performance testing shall be completed prior to paved road sweeping. After two years of silt load sampling, the facility may request the Department to reevaluate the silt load sampling frequency requirements.
- B. The owner or operator shall maintain a log for each silt load sampling event that contains the following:
  - a. The date of silt load sampling event;
  - b. The measured silt content in grams;
  - c. Sample area used for silt load sampling in meters;
  - d. The operator's initials.
- C. The owner or operator shall record on a weekly basis, the frequency of paved road sweeping conducted on haul roads. If paved road sweeping does not occur due to inclement weather, owner or operator shall maintain a written record that contains conditions that prevented paved road sweeping.

Authority for Requirement: DNR Construction Permit 05-A-080-S4

**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: S82**

### Associated Equipment

Associated Emission Unit ID Numbers: P82

Emissions Control Equipment ID Number: CE82

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

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Emission Unit vented through this Emission Point: P82

Emission Unit Description: VOC Emissions from Equipment Leaks

Raw Material/Fuel: VOC

### **Applicable Requirements**

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

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 24.95 tons/yr

Authority for Requirement: DNR Construction Permit 05-A-082-S4

#### **Operating Requirements with Associated Monitoring and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 comply with the applicable standards in 40 CFR Part 63, Subparts A [§63.1 – §63.16] and FFFF [§63.2430 – §63.2550], including those not specifically mentioned in this permit by no later than sixty days from the issuance date of Construction Permit 05-A-082-S4 (2/26/2018).

#### **NESHAP Requirements**

- B. Per 40 CFR 63.6(e)(iii)(3), the owner or operator shall develop a written start-up, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the equipment during periods of start-up shutdown, and malfunction; and a program of corrective action for malfunctioning process, air pollution control, and monitoring equipment used to comply with the applicable requirements.
- C. Per 40 CFR 63.2480(a), the owner or operator shall comply with the applicable requirements in Table 6 (*Requirements for Equipment Leaks*) to Subpart FFFF of Part 63.
- D. The owner or operator shall comply with the notification, reporting, and recordkeeping requirements as outlined in 40 CFR §63.2515, §63.2520, and §63.2525, respectively.

### **NSPS Requirements**

- E. The owner or operator shall comply with the applicable requirements in 40 CFR Part 60, Subpart VV [§60.480 – §60.489], including those not specifically mentioned in this permit.
- i. The owner or operator shall comply with the applicable recordkeeping and reporting requirements in §60.486 and §60.487, respectively.

### **VOC Emission Limit Requirements**

- F. The owner or operator shall document the number and types of components used. Components include, but are not limited to valves, pumps, compressors seals, flanges, and connectors.
- i. The owner or operator shall update the component count whenever the number of components changes.
- G. The owner or operator shall calculate and record the facility's VOC emissions, in tons, with the following frequency:
- i. Initially, by no later than 30 days from the issuance date of Construction Permit 05-A-082-S4 (2/26/2018).
  - ii. At the end of each calendar year if the component count has changed.
  - iii. Whenever there is a major process change that results in a significant increase in components.
- H. The owner or operator shall use the documented component count and the calculation and the calculation methods outlined in EPA's document 453/R-95-017 titled: *Protocol for Equipment Leak Emission Estimates* (Pages 2 - 10 through 2 - 38).

Authority for Requirement: DNR Construction Permit 05-A-082-S4

### **NSPS and NESHAP Applicability**

This equipment is subject to NSPS Subpart A – General Provisions and Subpart VV – New Source Performance Standard for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry.

Authority for Requirement: DNR Construction Permit 05-A-082-S4  
40 CFR Part 60 Subpart VV  
567 IAC 23.1(2)"nn"

This facility is subject to the National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing [40 CFR Part 63 Subpart FFFF], and this emission unit is an affected source representing equipment leaks in the whole facility. This facility is also subject to 40 CFR Part 63 Subpart A – General Provisions.

Authority for Requirement: DNR Construction Permit 05-A-082-S4  
40 CFR Part 63 Subpart FFFF  
567 IAC 23.1(4)"cf"

**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: S90**

### Associated Equipment

Associated Emission Unit ID Numbers: P90  
Emissions Control Equipment ID Number: CE-C90  
Emissions Control Equipment Description: Baghouse

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Emission Unit vented through this Emission Point: P90  
Emission Unit Description: DDGS Loadout  
Raw Material/Fuel: DDGS  
Rated Capacity: 220 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% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-088-S7  
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.20 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-088-S7

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.20 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-088-S7  
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.50 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-088-S7

Pollutant: Acetaldehyde

Emission Limit(s): 0.10 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-088-S7

Pollutant: Other Single HAP  
Emission Limit(s): 0.10 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-088-S7

Pollutant: Total HAP  
Emission Limit(s): 0.20 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-088-S7

**Operating Requirements with Associated Monitoring and Recordkeeping**

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

**Equipment Operation and Throughput Limit Requirements**

- A. The amount of product (DDGS) loaded out at Plant Number 85-02-017 is limited to a maximum of 180 tons per hour, based on a daily average.
  - i. The owner or operator shall maintain records of the total amount of DDGS, in tons, loaded out at Plant Number 85-02-017 on a daily basis.
  - ii. The owner or operator shall maintain records of the total number of hours that DDGS is loaded out at Plant Number 85-02-017 on a daily basis.
  - iii. The owner or operator shall calculate and maintain records of the daily average DDGS load out rate, in tons/hour.
- B. The total amount of DDGS loaded out at Plant Number 85-02-017 by truck and rail combined shall not exceed 250,000 tons per rolling twelve-month period.
  - i. The owner or operator shall record the total amount of DDGS, in tons, loaded out at the facility on a monthly basis.
  - ii. The owner or operator shall calculate and record the total amount of DDGS, in tons, loaded out at the facility on a rolling 12-month basis.
- C. The owner or operator shall conduct all DDGS loadout within an enclosure using a loading spout and operating procedures that minimize particulate matter emissions.

**Control Equipment Requirements**

- D. The owner or operator shall maintain a pressure drop across Baghouse C90 between 0.25 and 8 inches of water column.
  - i. The owner or operator shall record the pressure drop, in inches of water column, across Baghouse C90 on a daily basis. This requirement does not apply when the DDGS Cooler (EU-P90) is not in operation.
  - ii. The owner or operator shall install a pressure drop monitoring device that shall be operated and maintained according to the manufacturer's recommendations, instructions, and operating manuals or per written facility specific operation and maintenance plan.
  - iii. If the pressure drop deviates below the minimum required, the owner or operator shall record the time, date, and actions taken to correct the situation. The owner or operator

shall also record when the pressure drop across Baghouse C90 has returned to or above the minimum pressure drop required. \*

- E. At any time that visible emissions from EP-S90 are observed, the owner or operator shall, as soon as practical, investigate the cause of the visible emissions and perform any corrective actions necessary to eliminate the visible emissions.
- F. The owner or operator shall inspect and maintain Baghouse C90 according to the manufacturer's specifications and instructions and/or the facility's (Plant No. 85-02-017) operation and maintenance plan.
  - i. The owner or operator shall keep a log of all maintenance and inspection activities performed on Baghouse C90. At a minimum, this log shall include:
    - 1. The date that any inspection and/or maintenance was performed on the baghouse;
    - 2. Any issues identified during the inspection;
    - 3. Any issues addressed during the maintenance activities and the date each issue was resolved; and
    - 4. Identification of the staff member performing the maintenance or inspection.

\*The same recordkeeping shall be kept if the pressure drop deviates above the maximum allowed.

Authority for Requirement: DNR Construction Permit 05-A-088-S7

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 60

Stack Opening, (inches, dia.): 13

Exhaust Flow Rate (scfm): 2,500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-088-S7

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

**Monitoring Requirements**

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

**Stack Testing:**

Pollutant – Volatile Organic Compounds (VOC)  
1st Stack Test to be Completed – Every Three Years <sup>(1)</sup>  
Test Method – 40 CFR Part 63 Appendix A Method 320 or  
40 CFR Part 60 Appendix A Method 18  
Authority for Requirement - DNR Construction Permit 05-A-088-S7

Pollutant – Organic HAP <sup>(2)</sup>  
1st Stack Test to be Completed – Every Three Years <sup>(1)</sup>  
Test Method – 40 CFR Part 63 Appendix A Method 320 or  
40 CFR Part 60 Appendix A Method 18  
Authority for Requirement - DNR Construction Permit 05-A-088-S7

- <sup>(1)</sup> VOC and HAP testing shall be conducted once every three years and only during the months of June, July, or August. The next VOC and HAP testing on EP-S90 shall be completed in June, July, or August of Year 2020.
- <sup>(2)</sup> Acetaldehyde, acrolein, formaldehyde, and methanol shall be tested for specifically. The specified HAP that tests below the detection limit shall be assumed to be emitting at a rate equal to the detection limit.

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: S110**

### Associated Equipment

Associated Emission Unit ID Numbers: P110

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Emission Unit vented through this Emission Point: P110  
Emission Unit Description: Emergency Diesel Fire Pump  
Raw Material/Fuel: Diesel  
Rated Capacity: 300 bhp (14.5 gal of diesel fuel/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% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-083-S3  
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.6 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-083-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.6 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-083-S3

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 1.0 lb/hr; 2.5 lb/MMBtu

Authority for Requirement: DNR Construction Permit 05-A-083-S3  
567 IAC 23.3(3)"b"(2)

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 12.6 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-083-S3

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.4 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-083-S3

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 3.4 lb/hr  
Authority for Requirement: DNR Construction Permit 05-A-083-S3

### **Operational Limits & Requirements**

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

### **Operating Limits**

- A. The fuel used in the diesel fire pump shall be limited to #1, #2, or a combination of #1 and #2 diesel fuel.
- B. The sulfur content in the fuel shall not exceed 0.5% by weight.
- C. The diesel fire pump shall not operate more than 200 hours per rolling twelve-month period.

### **Reporting and Recordkeeping**

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

- A. The owner or operator shall maintain records as to the type of fuel oil used.
- B. The owner or operator shall maintain records as to the sulfur content in each shipment of fuel oil to the plant and specifically delivered to the diesel storage tank for this fire pump. The record can be maintained by retaining the fuel supplier's certification of the sulfur content contained within the fuel fired by the Diesel Fire Pump as a percent by weight.
- C. The owner or operator shall record the amount of hours the diesel fire pump is operated on a monthly basis. The owner or operator shall also keep a rolling twelve-month total for the number of hours the Diesel Fire Pump is operated.

Authority for Requirement: DNR Construction Permit 05-A-083-S3

### **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)(1)(ii) this compression ignition emergency engine, located at a major source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

#### **Compliance Date**

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

Operation and Maintenance Requirements 40 CFR 63.6602, 63.6625, 63.6640 and Tables 2c and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

1. Any operation other than emergency operation, maintenance and testing and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
2. There is no time limit on the use of emergency stationary RICE in emergency situations.
3. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
4. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Recordkeeping Requirements 40 CFR 63.6655

1. Keep records of the maintenance conducted on the stationary RICE.
2. Keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. See 40 CFR 63.6655(f) for additional information.

Notification and Reporting Requirements 40 CFR 63.6645, 63.6650 and Table 2c to Subpart ZZZZ

1. An initial notification is not required per 40 CFR 63.6645(a)(5).
2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2c. (See Footnote 1 of Table 2c for more information.)

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

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

- Stack Height, (ft, from the ground): 8
- Stack Opening, (inches, dia.): 3
- Exhaust Flow Rate (scfm): 1800
- Exhaust Temperature (°F): 770
- Discharge Style: Horizontal
- Authority for Requirement: DNR Construction Permit 05-A-083-S3

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

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: S130 and S131

### Associated Equipment

Associated Emission Unit ID Numbers: See table below

Emissions Control Equipment ID Number: CE-130.1, CE-C131

Emissions Control Equipment Description: Baghouses

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EP	EU	Emission Unit Description	Raw Material	Storage Capacity	Processing Capacity (tons/day)
S130	P130.1	Storage Bin #1	DDGS	1,100 tons	200
	P130.2	Storage Bin #2	DDGS	1,100 tons	
S131	P131	Loadout Bin	DDGS	200 tons/day	NA

### Applicable Requirements

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

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

#### Emission Limits for EP S130 Only:

Pollutant: Opacity

Emission Limit(s): 40% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-090-S4  
567 IAC 23.3(2)"d"

<sup>(1)</sup>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 Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.17 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-090-S4

#### Emission Limits for EP S131 Only:

Pollutant: Opacity

Emission Limit(s): 40% <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 17-A-717  
567 IAC 23.3(2)"d"

<sup>(2)</sup>An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.06 lb/hr  
Authority for Requirement: DNR Construction Permit 17-A-717

Emission Limits for EP S130 and EP S131 (each stack):

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permits 05-A-090-S4, 17-A-717  
567 IAC 23.4(7)"c"

Pollutant: Single HAP  
Emission Limit(s): 0.10 lb/hr  
Authority for Requirement: DNR Construction Permits 05-A-090-S4, 17-A-717

Pollutant: Total HAP  
Emission Limit(s): 0.20 lb/hr  
Authority for Requirement: DNR Construction Permits 05-A-090-S4, 17-A-717

**Operating Requirements and Associated Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 inspect and maintain the baghouses (CE-C130.1 and CE-C131) according to the manufacturer's specifications and instructions.
  - i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the baghouses (CE-C130.1 and CE-C131). At a minimum, this log shall include:
    - 1. Weekly pressure drop;
    - 2. The date that any inspection and/or maintenance was performed on the control equipment;
    - 3. Any issues identified during the inspection;
    - 4. Any issues addressed during the maintenance activities and the date each issue was resolved; and
    - 5. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permits 05-A-090-S4, 17-A-717

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

	<b>EP-S130</b>	<b>EP-S131</b>
Stack Height (ft, from the ground)	104	44
Stack Opening (inches)	11 x 15	8 x 10
Exhaust Flow Rate (scfm)	2,000	700
Exhaust Temperature (°F)	Ambient	Ambient
Discharge Style	Horizontal	Vertical, Obstructed
Authority for Requirement: DNR Construction Permit	05-A-090-S4	17-A-717

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: S160**

### Associated Equipment

Associated Emission Unit ID Numbers: P160

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Emission Unit vented through this Emission Point: P160

Emission Unit Description: MDGS and MDGS Open Pile Storage and Loadout to Truck

Raw Material/Fuel: Wet Distillers Grains Soluble (WDGS) and  
Modified Distiller Grains Soluble (MDGS)

Rated Capacity: 710 tons Wet Cake; 1,180 tons Modified DGS

### **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% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 11-A-458-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup>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 Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.5 lb/hr

Authority for Requirement: DNR Construction Permit 11-A-458-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.5 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 11-A-458-S1  
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.50 lb/hr

Authority for Requirement: DNR Construction Permit 11-A-458-S1

Pollutant: Acetaldehyde

Emission Limit(s): 0.006 lb/hr

Authority for Requirement: DNR Construction Permit 11-A-458-S1

Pollutant: Single HAP  
Emission Limit(s): 0.01 lb/hr <sup>(2)</sup>  
Authority for Requirement: DNR Construction Permit 11-A-458-S1

<sup>(2)</sup>Emission limit applies to all single HAP except Acetaldehyde.

Pollutant: Total HAP  
Emission Limit(s): 0.02 lb/hr  
Authority for Requirement: DNR Construction Permit 11-A-458-S1

### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The owner or operator is limited to producing and thus shipping no more than a facility wide total of 51,482 tons of Wet and Modified DGS out of the facility via truck per rolling 12-month period.

#### **Reporting and Recordkeeping**

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

- A. Calculate and record the total amount of Wet and Modified DGS produced on a daily basis in tons that is put onto the Wet Cake Pad.
- B. Calculate and record on a monthly basis the amount of Wet and Modified DGS produced at the facility in tons and has been put onto the Wet Cake Pad for shipment.
- C. Calculate and record the rolling 12-month total amount of Wet and Modified DGS produced at the facility site on a monthly basis and has been put onto the Wet Cake Pad for shipment.

Authority for Requirement: DNR Construction Permit 11-A-458-S1

### **Monitoring Requirements**

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

#### **Stack Testing:**

Pollutant – Volatile Organic Compounds (VOC)

1st Stack Test to be Completed – <sup>(1)</sup><sup>(2)</sup><sup>(3)</sup>

Test Method – 40 CFR Part 63 Appendix A Method 320 or  
40 CFR Part 60 Appendix A Method 18 or  
IDNR Approved Method

Authority for Requirement - DNR Construction Permit 11-A-458-S1

Pollutant – Acetaldehyde  
1st Stack Test to be Completed – <sup>(1)</sup> <sup>(2)</sup> <sup>(3)</sup>  
Test Method – 40 CFR Part 63 Appendix A Method 320 or  
40 CFR Part 60 Appendix A Method 18 or  
IDNR Approved Method  
Authority for Requirement - DNR Construction Permit 11-A-458-S1

Pollutant – Single HAP <sup>(4)</sup>  
1st Stack Test to be Completed – <sup>(1)</sup> <sup>(2)</sup> <sup>(3)</sup>  
Test Method – 40 CFR Part 63 Appendix A Method 320 or  
40 CFR Part 60 Appendix A Method 18 or  
IDNR Approved Method  
Authority for Requirement - DNR Construction Permit 11-A-458-S1

Pollutant – Total HAP  
1st Stack Test to be Completed – <sup>(1)</sup> <sup>(2)</sup> <sup>(3)</sup>  
Test Method – 40 CFR Part 63 Appendix A Method 320 or  
40 CFR Part 60 Appendix A Method 18 or  
IDNR Approved Method  
Authority for Requirement - DNR Construction Permit 11-A-458-S1

<sup>(1)</sup>Initial testing will not be required until the facility exceeds producing greater than 51,482 tons of WDGS and MDGS per rolling 12-month period.

<sup>(2)</sup>Once the 51,482 tons of WDGS and MDGS per rolling 12-month period has been exceeded, a stack test shall be conducted once every three (3) months. These tests shall be conducted with a minimum of 30 days between tests. After four (4) stack tests have been completed the facility may request reduced stack testing.

<sup>(3)</sup>Testing of this stack shall be performed during the summer months and conducted in a manner to verify compliance with all emission limitations with all equipment operating in a worst case scenario (highest production rate, syrup rate, etc.). These tests shall be conducted once each calendar year with a minimum of 120 days between each test.

<sup>(4)</sup>Acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically. With the exception of acrolein, acetaldehyde, formaldehyde and methanol, any HAP whose emissions are below the detection limit shall be assumed to be zero.

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

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: S170**

Associated Equipment

Associated Emission Unit ID Numbers: See table below

Emissions Control Equipment ID Number: CE-C170

Emissions Control Equipment Description: Regenerative Thermal Oxidizer (18 MMBtu/hr)

EU	Emission Unit Description	Raw Material	Rated Capacity
P170A	DDGS Dryer #1	DDGS	28.5 tons/hr, combined
P170B	DDGS Dryer #2	DDGS	
P170C	DDGS Dryer #3	DDGS	
P172A	PureStream™ Dryer #1	DGS	
P172B	PureStream™ Dryer #2	DGS	
P171	Centrate Tank (2 total)	Centrate	1,200 gallons
	Centrifuges	Stillage	1,250 gallons per minute
	200 Proof Condenser	Ethanol	9,000 gallons per hour
	190 Proof Condenser	Ethanol	480 gallons per minute
	CIP Screen	CIP	450 gallons per minute
	Slurry Tanks (2 total)	Mash	17,000 gallons
	Yeast Tanks (2 total)	Yeast	13,500 gallons
	Slurry Mixer	Mash	1,250 gallons per minute
	Cook Water Tank	Mash	146,000 gallons
	Rectifier Column	Beer	800 gallons per minute
	Molecular Sieves (3 total)	Beer	200 gallons per minute
	Evaporators (8 total)	Beer	9,200 square feet
	Syrup Tank	Syrup	51,000 gallons

**Applicable Requirements**

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

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

Pollutant: Opacity

Emission Limit(s): 40 % <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 14-A-178-S3

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

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 4.33 lb/hr; 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 14-A-178-S3  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 500 ppmv  
Authority for Requirement: DNR Construction Permit 14-A-178-S3  
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)  
Emission Limit(s): 2.45 lb/hr  
Authority for Requirement: DNR Construction Permit 14-A-178-S3

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 15.00 lb/hr  
Authority for Requirement: DNR Construction Permit 14-A-178-S3

Pollutant: Total Organic HAP  
Emission Limit(s): See Table 1, 40 CFR Part 63 Subpart FFFF\*  
Authority for Requirement: DNR Construction Permit 14-A-178-S3  
40 CFR Pat 63 Subpart FFFF  
567 IAC 23.1(4)"cf"

\* The facility chose  $\leq 20$  ppmv total organic HAP option.

**Operating Requirements with Associated Monitoring and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 comply with the applicable standards in 40 CFR Part 63, Subpart FFFF [§63.2430 - §63.2550], including those not specifically mentioned in this permit by no later than sixty days from the issuance date of Construction Permit 17-A-178-S3 (2/26/2018).

**NESHAP Requirements**

- B. As required by 40 CFR §63.2450(e)(1), the owner or operator of this equipment shall comply with the requirements of 40 CFR §63.982(c). This also requires the owner or operator to comply with the requirements of 40 CFR §63.988 and any other applicable referenced requirement.
- C. Per 40 CFR §63.2450(a) and as indicated in §63.2455, the owner or operator of equipment associated with continuous process vents as defined in §63.2550 shall comply with the applicable emission limits and work practice standards in Table 1 to Subpart FFFF of Part 63 at all times, except during periods of startup, shutdown, and malfunction (SSM).
- D. In accordance with 40 CFR §63.2450(e) and as indicated in 40 CFR §63.982(c), the owner or

operator shall comply with the applicable recordkeeping requirements in 40 CFR §63.998 and with the reporting requirements in 40 CFR §63.999 for control devices used in closed vent systems.

- E. The owner or operator shall comply with the notification, reporting, and recordkeeping requirements as outlined in 40 CFR §63.2515, §63.2520, and §63.2525, respectively.
- F. As required by 40 CFR §63.6(e), the facility shall develop and implement a written startup, shutdown and malfunction plan (SSMP) unless otherwise excluded within the applicable standards.

### **Equipment Operation and RTO Requirements**

- G. The dryers (EU-P170A, EU-P170B, EU-P170C, EU-P172A, and EU-P172B) are limited to processing a combined maximum of 21 tons of product per hour, based on a daily average.
  - i. The owner or operator shall maintain records of the total estimated amount of product, in tons, processed by the dryers on a daily basis.
  - ii. At the end of each calendar month, the owner or operator shall update the daily production amount, in tons, as necessary, based on the final accounting inventories.
  - iii. The owner or operator shall maintain records of the total number of hours that the dryers operated on a daily basis.
  - iv. The owner or operator shall calculate and maintain records of the daily average production rate, in tons/hour, for all the dryers combined.
- H. The dryers and the regenerative thermal oxidizer shall combust only natural gas and/or process off-gases.
- I. Per 40 CFR §63.988 (a)(2), the regenerative thermal oxidizer (CE-C170) shall be operated at all times when emissions are vented to it.
- J. The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the operating temperature (in degrees Fahrenheit) of the regenerative thermal oxidizer (CE-C170). This equipment shall be installed, operated, and maintained in accordance with the facility's operation and maintenance plan.
  - i. The daily (calendar day) average operating temperature of the regenerative thermal oxidizer (CE-C170) shall be maintained at the level determined using the procedures in 40 CFR §63.2450(e)(1) that demonstrated compliance with all applicable emission limits during the most recent compliance test.
    - 1. The owner or operator shall record and maintain the acceptable average operating temperature range determined using the procedures in 40 CFR §63.2450(e)(1) that demonstrated compliance with all applicable emission limits during the most recent compliance test.
  - ii. The owner or operator shall collect and record the operating temperature (in degrees Fahrenheit) of the regenerative thermal oxidizer (CE-C170) at a minimum of once every 15 minutes and calculate and record the average temperature on a daily (calendar day) average.
  - iii. If the daily (calendar day) average operating temperature falls outside of the acceptable range, the owner or operator shall record the time, date, and actions taken to correct the situation and also when the average operating temperature is back within the acceptable range.
- K. The owner or operator shall maintain on-site a copy of the most recent stack test report listing

the operating temperature of the regenerative thermal oxidizer (CE-C170) measured during the most recent stack test that demonstrated compliance with the applicable emission limitations.

- L. The owner or operator shall inspect and maintain the regenerative thermal oxidizer (CE-C170) according to the manufacturer's specifications and/or the facility's (Plant No. 85-02-017) operation and maintenance plan.
  - i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the regenerative thermal oxidizer (CE-C170). At a minimum, this log shall include:
    - 1. The date that any inspection and/or maintenance was performed on the regenerative thermal oxidizer (CE-C170);
    - 2. Any issues identified during the inspection;
    - 3. Any issues addressed during the maintenance activities and the date each issue was resolved; and
    - 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 14-A-178-S3

### **NSPS and NESHAP Applicability**

This facility is subject to the National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing [40 CFR Part 63 Subpart FFFF], and this emission unit is an affected source as a Group1 Continuous Process Vent. This facility is also subject to 40 CFR Part 63 Subpart A – General Provisions.

Authority for Requirement: DNR Construction Permit 14-A-178-S3  
40 CFR Part 63 Subpart FFFF  
567 IAC 23.1(4)"cf"

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 125  
Stack Opening, (inches, dia.): 84  
Exhaust Flow Rate (scfm): 19,000 – 60,000  
Exhaust Temperature (°F): 300  
Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 14-A-178-S3

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

## **Monitoring Requirements**

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

### **Stack Testing:**

Pollutant – Particulate Matter (PM) - State

1st Stack Test to be Completed – <sup>(1)</sup>

Test Method – 40 CFR Part 60 Appendix A Method 5

40 CFR Part 51 Appendix M Method 202

Authority for Requirement - DNR Construction Permit 14-A-178-S3

Pollutant – Volatile Organic Compounds (VOC)

1st Stack Test to be Completed – Every Three Years <sup>(1)(2)</sup>

Test Method – 40 CFR Part 63 Appendix A Method 320 or

40 CFR Part 60 Appendix A Method 18

Authority for Requirement - DNR Construction Permit 14-A-178-S3

Pollutant – Organic HAP

1st Stack Test to be Completed – <sup>(3)</sup>

Test Method – 40 CFR Part 63 Appendix A Method 320 or

40 CFR Part 60 Appendix A Method 18

Authority for Requirement - DNR Construction Permit 14-A-178-S3

- <sup>(1)</sup> Initial testing for PM and VOC shall be completed once within 60 days after achieving the maximum production rate while all the equipment associated with EP-S170, including the proposed dryers, is operating, but no later than 180 days after the initial startup date of the proposed dryers.
- <sup>(2)</sup> VOC periodic testing shall be conducted once every three years and it shall be conducted during the months of June, July, or August. The owner or owner's authorized agent shall complete the next VOC testing on EP-S170 during the months of June, July, or August in 2021.
- <sup>(3)</sup> Organic HAP testing shall be completed on the schedule required by 40 CFR Part 63, Subpart FFFF (§63.2430 - §63.2550). If 98% percent reduction from Table 1 of Subpart FFFF is chosen, then the organic HAP inlet and outlet emission rates shall be measured simultaneously at each required test.

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

**Agency Approved Operation & Maintenance Plan Required?**

Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**

Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes  No

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: S180**

### Associated Equipment

Associated Emission Unit ID Numbers: P180  
Continuous Emissions Monitors ID Numbers: ME 180

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Emission Unit vented through this Emission Point: P180  
Emission Unit Description: Natural Gas Boiler  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 238 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 % <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 14-A-179-S2

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.76 lb/hr; 0.2 lb/MMBtu

Authority for Requirement: DNR Construction Permit 14-A-179-S2  
567 IAC 23.3(2)"b"(3)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 14-A-179-S2  
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 0.2 lb/MMBtu <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 14-A-179-S2  
40 CFR Part 60 Subpart Db  
567 IAC 23.1(2)"ccc"

<sup>(2)</sup>As indicated in 40 CFR §60.44b(h), this limit applies at all times, including periods of startup, shutdown, and malfunction. In addition, as indicated in 40 CFR §60.44b(i), compliance with this limit is determined on a 30-day rolling average basis.

### **Operating Requirements with Associated Monitoring and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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. Natural Gas Boiler, EU-P180, shall combust only natural gas.
- B. The owner or operator shall comply with the applicable standards in 40 CFR Part 60, Subpart Db [§60.40b - §60.49b], including those not specifically mentioned in this permit.
  - i. The owner or operator shall maintain records of the following information for each steam generating unit operating day. This information shall be submitted in a report, as required in 40 CFR §60.49b(i).
    - 1. Calendar date;
    - 2. The average hourly NO<sub>x</sub> emission (as NO<sub>2</sub>) rates measured;
    - 3. The 30-day average NO<sub>x</sub> 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;
    - 4. Identification of the steam generating unit operating days when the calculated 30-day average NO<sub>x</sub> emission rates are in excess of the NO<sub>x</sub> emission standard in §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken;
    - 5. 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;
    - 6. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
    - 7. Identification of the "F" factor used for calculations, method of determination, and type of fuel combusted;
    - 8. Identification of the times when the pollutant concentration exceeds full span of the CEMS;
    - 9. Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and
    - 10. Results of daily CEMS drift tests and quarterly accuracy assessments as required in 40 CFR Appendix F, Procedure 1.

Authority for Requirement: DNR Construction Permit 14-A-179-S2

### **NSPS and NESHAP Applicability**

This emission unit is subject to Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [40 CFR Part 60 Subpart Db], and 40 CFR Part 60 Subpart A – General Provisions.

Authority for Requirement: DNR Construction Permit 14-A-179-S2  
40 CFR Part 60 Subpart Db  
567 IAC 23.1(2)"ccc"

This emission unit is subject to 40 CFR Part 63, Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 60

Stack Opening, (inches, dia.): 54

Exhaust Flow Rate (scfm): 52,026

Exhaust Temperature (°F): 300

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 14-A-179-S2

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

### **Monitoring Requirements**

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

#### **Continuous Emissions Monitoring:**

Pollutant – NO<sub>x</sub>

Operational Specifications – 40 CFR 60 Appendix B

Date of Initial System Calibration and Quality Assurance – 11/21/2017

Ongoing System Calibration/Quality Assurance – 40 CFR 60 Appendix B

Reporting & Record keeping – 40 CFR 60 Appendix B

Authority for Requirement – DNR Construction Permit 14-A-179-S2

Pollutant – Diluent O<sub>2</sub>

Operational Specifications – 40 CFR 60 Appendix B

Date of Initial System Calibration and Quality Assurance – 11/21/2017

Ongoing System Calibration/Quality Assurance – 40 CFR 60 Appendix B

Reporting & Record keeping – 40 CFR 60 Appendix B

Authority for Requirement – DNR Construction Permit 14-A-179-S2

- A. The owner or operator shall comply with the applicable monitoring requirements in 40 CFR Part 60, Subpart Db [§60.40b - §60.49b], including those not specifically mentioned in this permit.

- i. The owner or operator shall continuously monitor emissions of nitrogen oxides (NO<sub>x</sub>) discharged to the atmosphere through EP-S180. Therefore, in accordance with 40 CFR §60.48b(b)(1), the owner or operator shall install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) for measuring NO<sub>x</sub> concentrations from EP-S180.
  - ii. The 1-hour average NO<sub>x</sub> emission rates measured by the NO<sub>x</sub> CEMS required by 40 CFR §60.48b(b) and §60.13(h) shall be expressed in lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 CFR §60.44b. The 1-hour averages shall be calculated using the data points required under 40 CFR §60.13(h)(2).
  - iii. The CEMS required by this permit to monitor NO<sub>x</sub> emissions discharged to the atmosphere through EP-S180 shall be operated and the data recorded during all periods of operation including periods of startup, shutdown, malfunction, or emergency conditions, except for CEMS breakdowns, repairs calibration checks, and zero and span adjustments.
- B. The owner or operator shall follow the procedures in 40 CFR §60.13 for installation, evaluation, and operation of the CEMS.
- C. The CEMS required by this permit to monitor NO<sub>x</sub> emissions discharged to the atmosphere through EP-S180 shall be designed to meet the requirements in 40 CFR Part 60, Appendix B, Performance Specification 2 (PS2) – *Specifications and Test Procedures for SO<sub>2</sub> and NO<sub>x</sub> Continuous Emission Monitoring Systems in Stationary Sources* and Performance Specification 6 (PS6) – *Specifications and Test Procedures for Continuous Emission Rate Monitoring Systems in Stationary Sources*.
- D. The CEMS required by this permit shall comply with the applicable requirements in Appendix F to 40 CFR Part 60 – Quality Assurance Procedures, including, but not limited to the following requirements:
- i. The owner or operator shall develop and implement a quality control (QC) program. As a minimum, each QC program shall include written procedures which should describe in detail, complete, step-by-step procedures and operations for each of the following activities:
    - 1. Calibration of the CEMS;
    - 2. Calibration drift determination and adjustment of the CEMS;
    - 3. Preventive maintenance of the CEMS (including spare parts inventory);
    - 4. Data recording, calculations, and reporting;
    - 5. Accuracy audit procedures including sampling and analysis methods; and
    - 6. Program of corrective action for malfunctioning CEMS.
  - ii. Whenever excessive inaccuracies occur for two consecutive quarters, the owner or operator shall revise the current written procedures or shall modify or replace the CEMS to correct the deficiency causing the excessive inaccuracies.
  - iii. The owner or operator shall keep on-site a copy of these written procedures and shall make them available for inspection by the Department.
  - iv. The owner or operator shall conduct a Relative Accuracy Test Audit (RATA) at least once every four calendar quarters and shall submit RATA reports to the Department as required.

Authority for Requirement: DNR Construction Permit 14-A-179-S2

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## V. General Conditions

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

### G1. Duty to Comply

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

### G2. Permit Expiration

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

### G3. Certification Requirement for Title V Related Documents

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

#### **G4. Annual Compliance Certification**

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

#### **G5. Semi-Annual Monitoring Report**

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

#### **G6. Annual Fee**

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

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

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

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

### **G8. Duty to Provide Information**

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

### **G9. General Maintenance and Repair Duties**

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

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

### **G10. Recordkeeping Requirements for Compliance Monitoring**

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

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

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

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

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

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

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

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

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

#### **G13. Hazardous Release**

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

#### **G14. Excess Emissions and Excess Emissions Reporting Requirements**

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

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

## 2. Excess Emissions Reporting

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

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

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

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

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

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

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

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

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

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

#### **G15. Permit Deviation Reporting Requirements**

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

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

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

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

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

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

### **G18. Duty to Modify a Title V Permit**

#### 1. Administrative Amendment.

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

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

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

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

#### 2. Minor Title V Permit Modification.

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

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

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

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

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

### 3. Significant Title V Permit Modification.

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

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

#### **G19. Duty to Obtain Construction Permits**

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

#### **G20. Asbestos**

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

#### **G21. Open Burning**

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

## **G22. Acid Rain (Title IV) Emissions Allowances**

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

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

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

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

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

#### **G24. Permit Reopenings**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#### **G25. Permit Shield**

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

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

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

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

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

#### **G26. Severability**

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

#### **G27. Property Rights**

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

#### **G28. Transferability**

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

#### **G29. Disclaimer**

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed

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

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

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

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

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

### **G31. Prevention of Air Pollution Emergency Episodes**

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

*567 IAC 26.1(1)*

**G32. Contacts List**

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

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

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

Chief, Air Quality Bureau  
Iowa Department of Natural Resources  
Wallace State Office Building  
  
502 E 9<sup>th</sup> St.  
Des Moines, IA 50319-0034  
(515) 725-8200

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

**Field Office 1**  
909 West Main – Suite 4  
Manchester, IA 52057  
(563) 927-2640

**Field Office 2**  
2300-15th St., SW  
Mason City, IA 50401  
(641) 424-4073

**Field Office 3**  
1900 N. Grand Ave.  
Spencer, IA 51301  
(712) 262-4177

**Field Office 4**  
1401 Sunnyside Lane  
Atlantic, IA 50022  
(712) 243-1934

**Field Office 5**  
7900 Hickman Road, Suite #200  
Windsor Heights, IA 50324  
(515) 725-0268

**Field Office 6**  
1023 West Madison Street  
Washington, IA 52353-1623  
(319) 653-2135

**Polk County Public Works Dept.**  
Air Quality Division  
5885 NE 14th St.  
Des Moines, IA 50313  
(515) 286-3351

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

## V. Appendix

### Appendix A: Weblinks to Standards

- A. 40 CFR 60 Subpart A – General Provisions  
<https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.7.60.a&rgn=div6>
- B. 40 CFR 60 Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units  
[https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.7.60.d\\_0b&rgn=div6](https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.7.60.d_0b&rgn=div6)
- C. 40 CFR 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984  
[https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.7.60.k\\_0b&rgn=div6](https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.7.60.k_0b&rgn=div6)
- D. 40 CFR 60 Subpart VV – Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006.  
<https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.7.60.vv&rgn=div6>
- E. 40 CFR 63 Subpart A – General Provisions  
<https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.11.63.a&rgn=div6>
- F. 40 CFR 63 Subpart FFFF - National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing  
<https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.14.63.ffff&rgn=div6>
- G. 40 CFR 63 Subpart ZZZZ – National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines  
<https://www.ecfr.gov/cgi-bin/text-idx?mc=true&node=sp40.15.63.zzzz&rgn=div6>