

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

Name of Permitted Facility: The Andersons Denison Ethanol, LLC
Facility Location: 2404 West Highway 30, Denison, IA 51442
Air Quality Operating Permit Number: 14-TV-011R1
Expiration Date: July 28, 2024
Permit Renewal Application Deadline: January 28, 2024

EIQ Number: 92-4602
Facility File Number: 24-01-007

Responsible Official

Name: Ricardo Campos
Title: Plant Manager
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Permit Contact Person for the Facility

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

For the Director of the Department of Natural Resources

Lori Hanson, Supervisor of Air Operating Permits Section

Date

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Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
CE	control equipment
CEM.....	continuous emission monitor
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EtOH.....	Ethanol
EP	emission point
EU	emission unit
gr/dscf	grains per dry standard cubic foot
IAC.....	Iowa Administrative Code
DDGS.....	Dried Distillers Grains with Solubles
DNR	Department of Natural Resources
MVAC.....	motor vehicle air conditioner
MWDGS.....	Modified Wet Distillers Grains with Solubles
NAICS.....	North American Industry Classification System
NSPS.....	new source performance standard
ppmv	parts per million by volume
lb/hr	pounds per hour
lb/MMBtu	pounds per million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC.....	Standard Industrial Classification
TPY.....	tons per year
USEPA.....	United States Environmental Protection Agency

Pollutants

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

I. Facility Description and Equipment List

Facility Name: Andersons Denison Ethanol, LLC

Permit Number: 14-TV-011R1

Facility Description: Fuel-Grade Ethyl Alcohol Manufacturing (SIC 2869)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
S10	P50a	Slurry Tank	04-A-642-S5
		Liquefaction Tank #1 and #2	
		Beer Column	
		Stripper	
		Rectifier	
		Evaporator System	
		Whole Stillage Tank	
		Thin Stillage Tank	
		Syrup Tank	
		Molecular Sieve #1, #2, #3 and #4	
		Process Condensate Tank	
		200 Proof Condenser	
		Yeast Tank	
		Centrifuge # 1	
	Centrifuge # 2		
	Centrifuge # 3		
	Centrifuge # 4		
	Centrifuge # 5		
	Centrifuge # 6		
P10a	DDGS Dryer #1		
P10b	DDGS Dryer #2		
B10	Waste Heat Recovery Boiler		
S19a	S19a	Grain Receiving	14-A-640-S1
S19b	S19b	Tunnel Belt Conveyor	14-A-641-S2
S20a	Tank A	Grain Storage Tank A	06-A-318-S3
S20b	Tank B	Grain Storage Tank B	06-A-319-S3
S20c	Tank C	Grain Storage Tank C	06-A-320-S3
S20d	Tank D	Grain Storage Tank D	04-A-640-S4
S20e	Tank E	Grain Storage Tank E	04-A-641-S3
S20f	Tank F	Grain Storage Silo F	06-A-321-S4

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
S20g	Tank G	Grain Storage Silo G	06-A-322-S4
S30	P30	Hammermills (2)	04-A-643-S3
S40, S45	P40A	Fermenter #1	04-A-644-S8, 19-A-150
	P40B	Fermenter #2	
	P40C	Fermenter #3	
	P40D	Fermenter #4	
	P40E	Fermenter #5	
S40	P40F	Beer Well	04-A-644-S8
	P40G	Selective Grind Technology	
	P40H	Beer Degas	
	P40I	Pre-Condenser	
S70	P70	DDGS Cooler	04-A-645-S5
S90	P90	DDGS Loading	04-A-646-S2
SEP22	EU22	Truck Loadout Flare	04-A-648-S4
S23	P54	Ethanol Rail Loadout	06-A-323-S4
F15	F15	Grain Handling Fugitives	06-A-810-S1
F20	F20	MWDGS Storage/Loadout	12-A-563
F70	F70	Fire Water Pump	12-A-564
F80	F80	Cooling Tower	06-A-324
F100	F100	Haul Roads	06-A-325-S5
F110	F110	VOC Emissions	07-A-1541-S2
GD2	GD2	Grain Dryer	06-A-809-S2
T61	T61	Denatured EtOH Storage Tank	04-A-649
T62	T62	Denatured EtOH Storage Tank	04-A-650
T63	T63	200 Proof Ethanol Storage Tank	04-A-651
T64	T64	Denaturant Storage Tank	04-A-652-S1
T65	T65	190 Proof Ethanol Storage Tank	04-A-653

II. Plant-Wide Conditions

Facility Name: The Andersons Denison Ethanol, LLC
Permit Number: 14-TV-011R1

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

Permit Duration

The term of this permit is: 5 years
Commencing on: July 29, 2019
Ending on: July 28, 2024

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

Emission Limits

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

Pollutant: Single HAP

Emission Limit: 9.4 tons/yr (Plant-wide limit)

Authority for Requirement: DNR Construction Permits 04-A-642-S5, 04-A-644-S8,
04-A-645-S6, 04-A-648-S4, 04-A-649, 04-A-650, 04-A-651, 04-A-652-S1, 04-A-653, 06-A-323-S4, 06-A-809-S2, 07-A-1541-S2,
12-A-563, 19-A-150

Pollutant: Total HAP

Emission Limit: 24.4 tons/yr (Plant-wide limit)

Authority for Requirement: DNR Construction Permits 04-A-642-S5, 04-A-644-S8,
04-A-645-S6, 04-A-648-S4, 04-A-649, 04-A-650, 04-A-651, 04-A-652-S1, 04-A-653, 06-A-323-S4, 06-A-809-S2, 07-A-1541-S2,
12-A-563, 19-A-150

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.

Plant-wide, record the HAP emissions (in tons) for each HAP and total HAPs per twelve-month rolling period.

Authority for Requirement: 567 IAC 22.108(3)

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

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

Particulate Matter:

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

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

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

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

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

5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

6. Reducing the speed of vehicles traveling over on-property surfaces as necessary to minimize the generation of airborne dusts.

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

40 CFR 60 Subpart A Requirements

This facility is an affected source and these *General Provisions* apply to the facility. The affected units are EP S10, EP S40, EP S45, EP SEP22, EP S23, EP F110, EP T61, EP T62, EP T63, EP T64, and EP T65.

See Appendix for a link to the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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

40 CFR 60 Subpart Db Requirements

This facility is subject to Standards of Performance for *Industrial Commercial Institutional Steam Generating Units*. The affected unit is EP S10.

See Appendix for a link to the Standard.

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

40 CFR 60 Subpart Kb Requirements

This facility is subject to Standards of Performance for *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 EP T61, EP T62, EP T63, EP T64, and EP T65.

See Appendix for a link to the Standard.

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

40 CFR 60 Subpart VV Requirements

This facility is subject to Standards of Performance for *Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry*. The affected units are equipment in VOC service and any applicable devices and systems (as defined in 40 CFR 60.481) in the entire facility, which include EP S10, EP S40, EP S45, EP SEP22, EP S23, EP F110, EP T61, EP T62, EP T63, EP T64, and EP T65.

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 a link to the Standard.

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

40 CFR 63 Subpart ZZZZ Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants for *Stationary Reciprocating Internal Combustion Engines* (RICE NESHAP). The affected unit is EP F70.

See Appendix for a link to the Standard.

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

III. Emission Point-Specific Conditions

Facility Name: Andersons Denison Ethanol, LLC
 Permit Number: 14-TV-011R1

Emission Point ID Number: S10

Associated Equipment

Associated Emission Unit ID Numbers: P50a, P10a, P10b, B10
 Emissions Control Equipment ID Number: CE-C10
 Emissions Control Equipment Description: Thermal Oxidizer (125 MMBtu/hr)
 Continuous Emissions Monitors ID Numbers: None

EU	Emission Unit Description	Maximum Capacity
P50a	Slurry Tank	16,000 gallons
	Liquefaction Tank #1 and #2	50,000 gallons (each)
	Beer Column	750 gal/min
	Stripper	65 gal/min
	Rectifier	9600 gal/hr
	Evaporator System	66,500 sq. ft. (8 evaporators)
	Whole Stillage Tank	500 gal/min
	Thin Stillage Tank	146,000 gallons
	Syrup Tank	50,000 gallons
	Molecular Sieve #1, #2, #3 and #4	130 gal/min (each)
	Process Condensate Tank	264 gallons
	200 Proof Condenser	22.5 sq. ft.
	Yeast Tank	234 sq. ft.
	Centrifuge # 1	8,100 -15,000 lb/hr (each)
	Centrifuge # 2	
Centrifuge # 3		
Centrifuge # 4		
Centrifuge # 5		
Centrifuge # 6		
P10a	DDGS Dryer #1	37.6 tons/hr, 42 MMBtu/hr
P10b	DDGS Dryer #2	37.6 tons/hr, 42 MMBtu/hr
B10 ⁽¹⁾	Water Heat Recovery Boiler	--

⁽¹⁾ The Waste Heat Recovery Boiler (EU-B10) does not combust fuel or generate emissions. The emission stream and associated heat from Thermal Oxidizer C10 is directed to the Waste Heat Recovery Boiler (EU-B10), which then produces steam from the 125 million Btu per hour maximum heat rate provided by the thermal oxidizer.

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-642-S5
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 6.88 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-642-S5

Pollutant: Particulate Matter (PM)

Emission Limit(s): 6.88 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 04-A-642-S5
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 8.48 lb/hr; 500 ppm_v

Authority for Requirement: DNR Construction Permit 04-A-642-S5
567 IAC 23.3(3) "e"

Pollutant: Nitrogen Oxides (NO_x) (EU-B10)

Emission Limit(s): 0.1 lb/MMBtu⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-642-S5
40 CFR 60.44b(a)
567 IAC 23.1(2) "ccc"⁽²⁾

⁽¹⁾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(1), compliance with this limit is determined on a 30-day rolling average basis.

⁽²⁾Department's reference to CFR Part 60, Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [40 CFR §60.40b – 40 CFR §60.49b].

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 25.00 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-642-S5

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 6.88 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-642-S5

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 20.56 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-642-S5

Pollutant: Acetaldehyde
Emission Limit(s): 0.18 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-642-S5

Pollutant: Acrolein
Emission Limit(s): 0.43 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-642-S5

Pollutant: Formaldehyde
Emission Limit(s): 0.43 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-642-S5

Pollutant: Methanol
Emission Limit(s): 0.43 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-642-S5

Pollutant: Total HAP
Emission Limit(s): 1.52 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-642-S5

Operational Limits with Associated Monitoring and Recordkeeping

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

New Source Performance Standards Requirements

- A. 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_x emission (as NO₂) rates measured;
 - 3. The 30-day average NO_x emission rates calculated at the end of each steam generating unit operating day from the measured hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;
 - 4. Identification of the steam generating unit operating days when the calculated 30-day average NO_x emission rates are in excess of the NO_x emission standard in §60.44b, with the reason(s) 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.

Control Equipment Requirements

- A. The DDGS Dryers (EU-P10A and EU-P10B) and Thermal Oxidizer (CE-C10) shall combust only natural gas.
- B. The Thermal Oxidizer (CE-C10) shall be operated at all times the dryers or the distillation equipment is being operated.
- C. The Thermal Oxidizer (CE-C10) shall maintain a temperature (measured as a 3-hour average) of no less than 50 degrees Fahrenheit below the average temperature recorded during the most recent stack test that demonstrated compliance with the VOC emission limit.
 - i. The owner or operator shall retain the most recent stack test for the Thermal Oxidizer (CE-C10) that demonstrated compliance with the VOC emission limits.
 - ii. The owner or operator shall document the average temperature of the Thermal Oxidizer (CE-C10) recorded during the most recent stack test.
 - iii. The owner or operator shall determine the minimum operating temperature of the Thermal Oxidizer (CE-C10) as follows:
 1. Minimum operating temperature = Highest average temperature recorded during the VOC stack tests - 50 degrees Fahrenheit
 - iv. The owner or operator shall continuously collect and record the operating temperature, in degrees Fahrenheit, of the Thermal Oxidizer (CE-C10).
 - v. The owner or operator shall calculate and record the 3-hour average of the operating temperature, in degrees Fahrenheit, of the Thermal Oxidizer (CE-C10).
 1. If the 3-hour average operating temperature does not comply with the requirements in Operational Limits C, the owner or operator shall investigate and make any necessary corrections.
- D. The owner or operator shall maintain records of the frequency and amount of time that the Thermal Oxidizer (CE-C10) malfunctions and shall estimate and record the emissions emitted during said malfunctions. All excess emission reporting shall be conducted in accordance with G30 of the General Conditions.
- E. The owner or operator shall inspect and maintain the Thermal Oxidizer (CE-C10) according to the manufacturer's specifications.

- i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the thermal oxidizer. At a minimum, this log shall include:
 - 1.The date that any inspection and/or maintenance was performed on the control equipment;
 - 2.Any issues identified during the inspection;
 - 3.Any issues addressed during the maintenance activities and the date each issue was resolved;
 - 4.Any actions taken to correct operating temperature malfunctions; and
 - 5.Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 04-A-642-S5

NSPS Applicability

These emission units are subject to Subparts A (General Provisions) and Subpart Db - Standards of Performance for *Industrial-Commercial-Institutional Steam Generating Units* of the New Source Performance Standards (NSPS). Additionally, the facility (Plant Number 24-01-007) is subject to NSPS Subpart VV - Standards of Performance for *Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry*.

Authority for Requirement: DNR Construction Permit 04-A-642-S5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 125

Stack Opening, (inches, dia.): 72

Exhaust Flow Rate (scfm): 53,400-89,000

Exhaust Temperature (°F): 205

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 04-A-642-S5

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

Monitoring Requirements

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

Compliance Demonstration Table #1 (EU-B10)

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
NO _x	CEMS/PEMS ⁽¹⁾	Continuous	NA	See 40 CFR §60.46b(e) and §60.48b(b)(1)
	Emissions calculation and recordkeeping	See 40 CFR §60.49b(g)	NA	NA

⁽¹⁾The facility shall monitor NO_x emissions from EU-B10 with a continuous emission monitoring system (CEMS) or with a predictive emission monitoring system (PEMS) to demonstrate compliance with the emission limit from 40 CFR §60.44b according to the requirements in 40 CFR Part 60, Subpart Db. As indicated in General Condition G30 of this Title V permit, 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.

Compliance Demonstration Table #2 (EP S10)

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
VOC ⁽¹⁾	Stack Testing	Every 3 years	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18

⁽¹⁾The VOC periodic testing shall be completed at least once every 3 calendar years with a minimum or 12 months between testing. The VOC periodic testing as required by this permit shall commence in December 2021.

Periodic stack testing on Emission Point S10 is required by this permit modification. As a result, the owner or the owner's authorized agent shall demonstrate compliance with the VOC emission limitation contained in Emission Limits section while all affected equipment is operating in a worst case scenario, e.g., highest production rate, etc. Testing frequency for each applicable pollutant is specified in Compliance Demonstration Table #2.

Stack testing is required by this permit modification, therefore, the owner or the owner's authorized agent shall use the test method and run time listed in the "Compliance Demonstration Table" unless another testing methodology is approved by the Department prior to testing.

Authority for Requirement: DNR Construction Permit 04-A-642-S5

567 IAC 22.108(3)

Continuous Emissions Monitoring:

- 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_x) discharged to the atmosphere through EP-S10. 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) or a predictive emission monitoring system (PEMS) for measuring NO_x concentrations from EP-S10.
 - ii. The 1-hour average NO_x emission rates measured by the NO_x CEMS or PEMS 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 emissions monitoring system required by this permit to monitor NO_x emissions discharged to the atmosphere through EP-S10 shall be operated and the data recorded during all periods of operation including periods of startup, shutdown, malfunction, or emergency conditions, except for CEMS (or PEMS) 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 (or PEMS).
- C. The CEMS (or PEMS) required by this permit to monitor NO_x emissions discharged to the atmosphere through EP-S10 shall be designed to meet the requirements in 40 CFR Part 60, Appendix B, Performance Specification 2 (PS2) – *Specifications and Test Procedures for SO₂ and NO_x Continuous Emission Monitoring Systems in Stationary Sources* and Performance Specification 6 (PS6) – *Specifications and Test Procedures for Continuous Emission Rate Monitoring Systems in Stationary Sources*.
- D. The CEMS (or PEMS) required by this permit shall comply with the applicable requirements in Appendix F to 40 CFR Part 60 – *Quality Assurance Procedures*.
- E. 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 indicated in G30 of the General Conditions.

Authority for Requirement: DNR Construction Permit 04-A-642-S5

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Operational Limits with Associated Monitoring and Recordkeeping described above are CAM equivalent.

Authority for Requirement: DNR Construction Permit 04-A-642-S5
567 IAC 22.108(3)

Emission Point ID Number: EP S19A, EP S19B

Associated Equipment

Associated Emission Unit ID Numbers: EU P19A, EU P19B
Emissions Control Equipment ID Number: CE-C19A, CE-C19B
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU P19A, EU P19B
Emission Unit Description: Grain Receiving by Truck (EU P19A),
Tunnel Belt Conveyor (EU P19B)

Raw Material/Fuel: Grain

Rated Capacity: 45,000 bu/hr (receiving), 7,500 bu/hr (conveyor)

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 14-A-640-S1, 14-A-641-S2
567 IAC 23.3(2)"d"

⁽¹⁾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): 2.00 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 14-A-640-S1, 14-A-641-S2
567 IAC 23.4 (7)

Operational Limits with Associated Monitoring and Recordkeeping

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

Throughput Limits Requirements

- A. The total amount of grain processed by Grain Receiving (EU-P19A) shall not exceed 25,915,000 bushels per rolling twelve-month period.
 - i. The owner or operator shall record the total amount of grain, in bushels, processed by Grain Receiving (EU-P19A) on a monthly basis.
 - ii. The owner or operator shall calculate and record the total amount of grain, in bushels, processed by Grain Receiving (EU-P19A) on a rolling 12-month basis.

- B. The total amount of grain transferred by Grain Recovery Tunnel Belt Conveyor (EU-P19B) shall not exceed 25,915,000 bushels per rolling twelve-month period.
 - i. The owner or operator shall record the total amount of grain, in bushels, transferred by Grain Recovery Tunnel Belt Conveyor (EU-P19B) on a monthly basis.
 - ii. The owner or operator shall calculate and record the total amount of grain, in bushels, transferred by Grain Recovery Tunnel Belt Conveyor (EU-P19B) on a rolling 12-month basis.

Control Equipment Requirements

- A. The pressure drop of each of the baghouses described in this “Collection of Air Permits” shall not exceed 0.1-10.0 inches water column.
 - i. The owner or operator shall collect and record the pressure drop, in inches of water column, across each baghouse on a daily basis when each baghouse is in operation.
- B. The owner or operator shall inspect and maintain the control equipment described in this "Collection of Air Permits" 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 control equipment described in this "Collection of Air Permits." At a minimum, this log shall include:
 - 1.The date that any inspection and/or maintenance was performed on the control equipment;
 - 2.Any issues identified during the inspection;
 - 3.Any issues addressed during the maintenance activities and 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-640-S1, 14-A-641-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): S19A: 35

S19B: 1

Stack Opening, (inches, dia.): S19A: 24 x 32

S19B: 16 x 22

Exhaust Flow Rate (scfm): S19A: 15,000

S19B: 10,000

Exhaust Temperature (°F): ambient

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 14-A-640-S1, 14-A-641-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 either the temperature or flowrate above are different than the values stated, the owner or operator shall

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

Compliance Plan

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

Description

Emission Point S19A has a permitted capacity of 45,000 bushels/hr. The facility must demonstrate attainment of permitted capacity to establish compliance. If the facility is unable to attain the permitted capacity, a construction permit modification will be required to lower the rated capacity. Facility will be in compliance when permitted capacity is demonstrated or construction permit modification is completed.

Monitoring Requirements

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

Stack Testing at EP S19A:

Pollutant – Particulate Matter (PM)

Test Method - 40 CFR 60, Appendix A Method 5

40 CFR 51, Appendix M, Method 202

Test must be completed within 60 days of issuance of this Title V permit.

Authority for Requirement – 567 IAC 22.108(3)

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

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: DNR Construction Permit 14-A-640-S1, 14-A-641-S2
567 IAC 22.108(3)

Emission Point ID Number: EP S20a, EP S20b, EP S20c, EP S20d, EP S20e

Associated Equipment

Emission Point	Associated Emission Unit ID Number	Emissions Control Equipment ID Number	Emissions Control Equipment Description	Construction Permit Number
S20a	Tank A	CE-S20a	Shaker Baghouse	06-A-318-S3
S20b	Tank B	CE-S20b		06-A-319-S3
S20c	Tank C	CE-S20c		06-A-320-S3
S20d	Tank D	CE-S20d		04-A-640-S4
S20e	Tank E	CE-S20e		04-A-641-S3

EU	EU Description	Raw Material	Maximum Capacity (bushels)
Tank A	Grain Storage Tank A	Grain	339,000
Tank B	Grain Storage Tank B		339,000
Tank C	Grain Storage Tank C		339,000
Tank D	Grain Storage Tank D		463,000
Tank E	Grain Storage Tank E		463,000

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-318-S3, 06-A-319-S3, 06-A-320-S3, 04-A-640-S4, 04-A-641-S3
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.17 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-318-S3, 06-A-319-S3, 06-A-320-S3, 04-A-640-S4, 04-A-641-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.17 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-318-S3, 06-A-319-S3,
06-A-320-S3, 04-A-640-S4, 04-A-641-S3
567 IAC 23.4(7)

Operational Limits with Associated Monitoring and Recordkeeping

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

- A. The owner or operator shall operate and maintain the control equipment on the Grain Storage Tanks (EP-S20a through EP-S20g) in accordance with the manufacture's specifications and instructions.
 - i. The owner or operator shall maintain a copy of the manufacture's specifications and instructions to ensure proper operation of the control equipment.
 - ii. The permittee shall maintain a record of all inspections, maintenance, and repair and any action resulting from the inspection and maintenance of the control equipment for each of the Grain Storage Tanks (EP-S20a through EP-S20g).

- B. The owner or operator shall conduct daily visible emissions observations of the Grain Storage Tanks (EP-S20a through EP-S20g). The observations shall only be conducted on days when the unit is in operation. If visible emissions are observed, the owner or operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation, and it must be completed as soon as possible.
 - i. The permittee shall maintain a record of all daily visible emissions observations for each Grain Storage Tanks (EP-S20a through EP-S20g).
 - ii. The permittee shall maintain a record any corrective action taken if visible emissions are observed for each of the Grain Storage Tanks (EP-S20a through EP-S20g), including the date and time the visible emissions were observed, the time corrective action was initiated and completed, and the corrective action taken.

Authority for Requirement: DNR Construction Permit 06-A-318-S3, 06-A-319-S3,
06-A-320-S3, 04-A-640-S4, 04-A-641-S3

Emission Point Characteristics

The emission points shall conform to the specifications listed in the table below.

EP Number	S20a, S20c *	S20b *	S20d, S20e
Stack Height, (ft, from the ground)	100	100	98
Stack Opening, (inches, dia.)	23 x 8		
Exhaust Flow Rate (scfm)	2000 (maximum)		
Exhaust Temperature (°F)	Ambient		
Discharge Style	Horizontal		

* These emission units also include 8 roof exhausters (each 24" x 24") and 18 gravity vents (each 18" x 18"). All the exhaust points discharge horizontally.

Authority for Requirement: DNR Construction Permit 06-A-318-S3, 06-A-319-S3,
06-A-320-S3, 04-A-640-S4, 04-A-641-S3

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP S20f, EP S20g

Associated Equipment

Emission Point	Associated Emission Unit ID Number	Emissions Control Equipment ID Number	Emissions Control Equipment Description	Construction Permit Number
S20f	Tank F	CE-S20f	Shaker	06-A-321-S4
S20g	Tank G	CE-S20g	Baghouse	06-A-322-S4

EU	EU Description	Raw Material	Maximum Capacity (bushels)
Tank F	Grain Storage Silo F	Grain	254,000
Tank G	Grain Storage Silo G		254,000

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-321-S4, 06-A-322-S4
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.30 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-321-S4, 06-A-322-S4

Pollutant: Particulate Matter (PM)

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

Authority for Requirement: DNR Construction Permit 06-A-321-S4, 06-A-322-S4
567 IAC 23.4(7)

Operational Limits with Associated Monitoring and Recordkeeping

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

- A. The owner or operator shall operate and maintain the control equipment on the Grain Storage Tanks (EP-S20a through EP-S20g) in accordance with the manufacturer's specifications and instructions.
 - a. The owner or operator shall maintain a copy of the manufacturer's specifications and instructions to ensure proper operation of the control equipment.
 - b. The permittee shall maintain a record of all inspections, maintenance, and repair and any action resulting from the inspection and maintenance of the control equipment for each of the Grain Storage Tanks (EP-S20a through EP-S20g).

- B. The owner or operator shall conduct daily visible emissions observations of the Grain Storage Tanks (EP-S20a through EP-S20g). The observations shall only be conducted on days when the unit is in operation. If visible emissions are observed, the owner or operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation, and it must be completed as soon as possible.
 - a. The permittee shall maintain a record of all daily visible emissions observations for each Grain Storage Tanks (EP-S20a through EP-S20g).
 - b. The permittee shall maintain a record any corrective action taken if visible emissions are observed for each of the Grain Storage Tanks (EP-S20a through EP-S20g), including the date and time the visible emissions were observed, the time corrective action was initiated and completed, and the corrective action taken.

Authority for Requirement: DNR Construction Permit 06-A-321-S4, 06-A-322-S4

Emission Point Characteristics

The emission points shall conform to the specifications listed in the table below.

EP Number	S20f and S20g
Stack Height, (ft, from the ground)	121
Stack Opening, (inches, dia.)	23 x 3
Exhaust Flow Rate (acfm)	3450
Exhaust Temperature (°F)	Ambient
Discharge Style	Horizontal

Authority for Requirement: DNR Construction Permit 06-A-321-S4, 06-A-322-S4

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP S30

Associated Equipment

Associated Emission Unit ID Numbers: P30
Emissions Control Equipment ID Number: CE-C30
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: P30
Emission Unit Description: Hammermills
Raw Material/Fuel: Grain
Rated Capacity: One mill, 56.5 tons/hr; two mills, 70 tons/hr each

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-643-S3
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 1.00 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-643-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.00 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 04-A-643-S3
567 IAC 23.4(7)

Operational Limits with Associated Monitoring and Recordkeeping

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

Operating Limits

A. Maintain the baghouse according to the manufacturer's specifications.

Reporting and Recordkeeping

A. The owner or operator shall keep records of control equipment inspection and repair.
Authority for Requirement: DNR Construction Permit 04-A-643-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 26

Exhaust Flow Rate (acfm): 12,000

Exhaust Temperature (°F): 70

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 04-A-643-S3

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP S40 and S45

Associated Equipment

Associated Emission Unit ID Numbers: P40a – P40i (S40), P40a-P40e (S45)
 Emissions Control Equipment ID Number: CE-C40, CE-C45
 Emissions Control Equipment Description: Packed Bed CO₂ Scrubber (CE-C40)
 Purge Scrubber (CE-C45)
 Continuous Emissions Monitors ID Numbers: None

EU	Emissions Unit Description	Raw Material/Fuel	Maximum Capacity
EU40a	Fermenter #1	Corn Mash	730,000 gallons (each)
EU40b	Fermenter #2		
EU40c	Fermenter #3		
EU40d	Fermenter #4		
EU40e	Fermenter #5		
EU40f	Beer Well	beer	985,000 gallons
EU40g	Selective Grind Technology		1,140 gallons/minute
EU40h	Beer Degas	Beer Mash	740 gallons/minute
EU40i	Pre-Condenser		5,100 ft ³ /minute

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-644-S8, 19-A-150
 567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.10 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-644-S8, 19-A-150

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.10 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-644-S8, 19-A-150
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 12.00 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-644-S8, 19-A-150

Pollutant: Acetaldehyde
Emission Limit(s): 1.55 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-644-S8, 19-A-150

Pollutant: Acrolein
Emission Limit(s): 0.31 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-644-S8, 19-A-150

Pollutant: Formaldehyde
Emission Limit(s): 0.31 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-644-S8, 19-A-150

Pollutant: Methanol
Emission Limit(s): 0.31 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-644-S8, 19-A-150

Pollutant: Total HAP
Emission Limit(s): 2.69 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-644-S8, 19-A-150

Operational Limits with Associated Monitoring and Recordkeeping

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

- A. The owner or operator shall operate the Packed Bed Scrubber (CE-C40) and Purge Scrubber (CE-C45) at all times any of the equipment controlled by this device is in operation.
 - a. The owner or operator shall operate the scrubbers until the fermentation cycles have been completed during shutdown of the plant.
- B. The average pressure drop across the Packed Bed Scrubber (CE-C40) and the Purge Scrubber (CE-C45) shall be between 2-15 inches of water column under normal operating conditions.
 - a. The owner or operator shall record each scrubber pressure drop on a continuous basis.
 - i. The owner or operator shall calculate and record the average pressure drop across each scrubber based on a 24-hour average.

1. If the calculated average pressure drop deviates from the required limit, then the owner or operator shall record the date and actions taken to correct the situation.
 2. The owner or operator shall also record when the average pressure drop is back within the required range.
- C. The Packed Bed Scrubber (CE-C40) and Purge Scrubber (CE-C45) shall have a minimum scrubber liquid flow rate calculated as 90 percent of the total liquid flow rate at the inlet to the scrubber measured during the most recent stack test demonstrating compliance with the VOC and HAP emission limitations described in this Title V Permit.
- a. The owner or operator shall record each scrubber liquid flow rate on a 3-hour average.
 - i. If the flow rate deviates below the minimum required, then the owner or operator shall record the date and actions taken to correct the situation.
 - ii. The owner or operator shall also record when the flow rate is back above the minimum required.
- D. Any additive added to either scrubber liquid during a stack test to enhance the efficiency of either scrubber shall be added at a rate greater than or equal to the rate recorded during a previous performance test which demonstrated compliance with the VOC and HAP emission limitations described in this Title V Permit.
- a. The owner or operator shall record the rate of additive to each scrubber liquid on a daily basis. If the additive feed rate deviates below the required rate, then the owner or operator shall record the date and actions taken to correct the situation.
- E. The scrubber monitoring requirements Operational Limits A through D shall not apply on the days the scrubber is not in operation, or during facility start-up, shutdown, or during operation at less than 50% capacity.
- F. The owner or operator shall inspect, maintain, and repair the Packed Bed Scrubber (CE-C40) and the Purge Scrubber (CE-C45) according to the manufacturer's specifications.
- a. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but shall not be limited to:
 - i. The date any inspection and/or maintenance was performed on the control equipment;
 - ii. Any issues identified during the inspection;
 - iii. Any issues addressed during the maintenance activities and the date each issue was resolved; and
 - iv. Identification of the staff member performing the maintenance or inspection.
- G. The owner or operator shall maintain onsite a copy of the most recent stack test report showing compliance with the VOC and HAP emission limitations described in this Title V Permit.
- a. The stack test report shall include, at a minimum, the emission rates observed during the testing, the average pressure drop across the scrubber during the testing, the average liquid feed rate to the scrubber during the testing, and the additive feed rate used during the testing, if additives were used.

Authority for Requirement: DNR Construction Permit 04-A-644-S8, 19-A-150

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 45 (S40, S45)

Stack Opening, (inches, dia.): 20 (S40, S45)

Exhaust Flow Rate (scfm): 3,825-6,375 (S40); 500 (S45)

Exhaust Temperature (°F): 75 (S40); 70 (S45)

Discharge Style: Vertical unobstructed (S40, S45)

Authority for Requirement: DNR Construction Permit 04-A-644-S8, 19-A-150

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

Monitoring Requirements

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

Compliance Demonstration Table

EP	Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
S40	VOC ⁽¹⁾	Stack Testing	Annual	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
	HAP ⁽²⁾	Stack Testing	Annual	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
S45	VOC ⁽³⁾	Stack Testing	Initial and Annual	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
	HAP ⁽⁴⁾	Stack Testing	Initial and Annual	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18

⁽¹⁾ The VOC periodic testing shall be completed annually with at least 3 months between tests and it shall be completed during the months of June, July, or August. The VOC periodic testing as required by this permit shall commence in August 2019.

⁽²⁾ The HAP periodic testing shall be completed annually with at least 3 months between tests and it shall be completed during the months of June, July, or August. Acetaldehyde, acrolein, formaldehyde, and methanol shall be tested for specifically. The specified HAP that test below the detection limit shall be assumed to be emitting at a rate equal to detection limit. The HAP periodic testing as required by this permit shall commence in August 2019.

⁽³⁾ The VOC initial and periodic testing shall be completed annually with at least 3 months between tests and it shall be completed during the months of June, July, or August.

(4) The HAP initial and periodic testing shall be completed annually with at least 3 months between tests and it shall be completed during the months of June, July, or August. Acetaldehyde, acrolein, formaldehyde, and methanol shall be tested for specifically. The specified HAP that test below the detection limit shall be assumed to be emitting at a rate equal to detection limit.

For each Emission Point listed in the "Compliance Demonstration Table", if an initial stack test is specified in the "Compliance Demonstration Table," the owner or the owner's authorized agent shall demonstrate compliance with the emission limitations contained in this condition within the applicable time period specified below:

- Within sixty (60) days after achieving the maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment for the addition of new equipment or the physical modification of existing equipment or control equipment.
- Within ninety (90) days of the issuance of the permit if there is no physical modification to any emission units or control equipment.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Operational Limits with Associated Monitoring and Recordkeeping described above are CAM equivalent.

Authority for Requirement: DNR Construction Permit 04-A-644-S8, 19-A-150
567 IAC 22.108(3)

Emission Point ID Number: EP S70

Associated Equipment

Associated Emission Unit ID Numbers: P70
Emissions Control Equipment ID Number: CE-C70
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: P70
Emission Unit Description: DDGS Cooler
Raw Material/Fuel: DDGS
Rated Capacity: 18.15 tons/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-645-S6
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 1.80 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-645-S6

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.80 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 04-A-645-S6
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 5.30 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-645-S6

Pollutant: Acetaldehyde

Emission Limit(s): 0.18 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-645-S6

Pollutant: Acrolein

Emission Limit(s): 0.25 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-645-S6

Pollutant: Formaldehyde
Emission Limit(s): 0.25 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-645-S6

Pollutant: Methanol
Emission Limit(s): 0.25 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-645-S6

Pollutant: Total HAP
Emission Limit(s): 0.93 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-645-S6

Operational Limits with Associated Monitoring and Recordkeeping

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

Production Limits Requirements

- A. The total amount of DDGS/MWDGS produced at Plant Number 24-01-007 shall not exceed 421,767 tons per rolling twelve-month period.
 - i. The owner or operator shall record the total amount of DDGS/MWDGS, in tons, produced at this facility on a monthly basis.
 - ii. The owner or operator shall calculate and record the total amount of DDGS/MWDGS, in tons, produced at this facility on a rolling 12-month basis.

Control Equipment Requirements

- A. The average pressure drop across the Baghouse (CE-C70) shall be between 0.2 and 5 inches of water column under normal operating conditions.
 - i. The owner or operator shall record the baghouse pressure drop once each work shift.
 - i. The owner or operator shall calculate and record the average pressure drop across the baghouse.
 - 1. If the calculated average pressure drop deviates from the required limit, then the owner or operator shall record the date and actions taken to correct the situation.
 - 2. The owner or operator shall also record when the average pressure drop is back within the required range.
- B. The owner or operator shall inspect, maintain, and repair the Baghouse (CE-C70) according to the manufacturer's specifications.
 - i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but shall not be limited to:
 - 1. The date that any inspection and/or maintenance was performed on the control equipment;
 - 2. Any issues identified during the inspection;

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

Authority for Requirement: DNR Construction Permit 04-A-645-S6

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 50

Stack Opening, (inches, dia.): 40

Exhaust Flow Rate (scfm): 22,500-37,500

Exhaust Temperature (°F): 75

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 04-A-645-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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Compliance Demonstration Table

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
VOC ⁽¹⁾	Stack Testing	Annual	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
HAP ⁽²⁾	Stack Testing	Annual	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18

⁽¹⁾ The VOC periodic testing shall be completed annually with at least 3 months between tests and it shall be completed during the months of June, July, or August. The VOC periodic testing as required by this permit shall commence in August 2019.

⁽²⁾ The HAP periodic testing shall be completed annually with at least 3 months between tests and it shall be completed during the months of June, July, or August. Acetaldehyde, acrolein, formaldehyde, and methanol shall be tested for specifically. The specified HAP that test below the detection limit shall be

assumed to be emitting at a rate equal to detection limit. The HAP periodic testing as required by this permit shall commence in August 2019.

Periodic stack testing on Emission Point S70 is required by this permit modification. As a result, the owner or the owner's authorized agent shall demonstrate compliance with the VOC and HAP emission limitations contained in Emission Limits while all affected equipment is operating in a worst case scenario, e.g., highest production rate, etc. Testing frequency for each applicable pollutant is specified in the "Compliance Demonstration Table."

Stack testing is required by this permit modification, therefore, the owner or the owner's authorized agent shall use the test method and run time listed in the "Compliance Demonstration Table" unless another testing methodology is approved by the Department prior to testing.

Authority for Requirement: DNR Construction Permit 04-A-645-S6
567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Operational Limits with Associated Monitoring and Recordkeeping described above are CAM equivalent.

Authority for Requirement: DNR Construction Permit 04-A-645-S6
567 IAC 22.108(3)

Emission Point ID Number: EP S90

Associated Equipment

Associated Emission Unit ID Numbers: P90
Emissions Control Equipment ID Number: CE-C90
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: P90
Emission Unit Description: DDGS Loading
Raw Material/Fuel: DDGS
Rated Capacity: 250 tons/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 04-A-646-S2
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.37 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-646-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.37 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 04-A-646-S2
567 IAC 23.4(7)

Operational Limits with Associated Monitoring and Recordkeeping

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

Operating Limits

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

Reporting and Recordkeeping

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

Authority for Requirement: DNR Construction Permit 04-A-646-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 16

Exhaust Flow Rate (acfm): 5000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 04-A-646-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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP SEP22

Associated Equipment

Associated Emission Unit ID Numbers: EU22
Emissions Control Equipment ID Number: CE-C22
Emissions Control Equipment Description: Flare
Continuous Emissions Monitors ID Numbers: None

Emission Units vented through these Emission Points: EU22
Emission Unit Description: Ethanol Truck Loadout
Raw Material/Fuel: Ethanol
Rated Capacity: 7.3 MMBtu/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-648-S4
567 IAC 23.3(2)"d"

⁽¹⁾ Except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours, each flare (CE-C22 and CE-C23) shall operate with no visible emissions. Therefore, outside of these periods, an exceedance of the indicator opacity of "no visible emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 04-A-648-S4
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500ppm_v

Authority for Requirement: DNR Construction Permit 04-A-648-S4
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 2.89 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-648-S4

⁽¹⁾ It is based on the worst-case scenario where all product loading is done at the truck loadout and a maximum flare/pilot operation of 8,760 hours per year.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 4.12 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-648-S4

⁽¹⁾ VOC emissions are based on the worst-case scenario where all product loading is done at the truck loadout and are the sum of: (1) Losses from loading a maximum of 80 million gallons of product per year, including a maximum of 6.5 million gallons of natural gasoline per year and (2) Combustion emissions from a maximum flare/pilot operation of 8,760 hours per year. Product at this facility includes varying blends of anhydrous ethanol and natural gasoline.

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 4.86 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-648-S4

⁽¹⁾It is based on the worst-case scenario where all product loading is done at the truck loadout and a maximum flare/pilot operation of 8,760 hours per year.

Pollutant: HAP (single)

Emission Limit(s): 0.39 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-648-S4

⁽¹⁾ HAP emissions are based on the worst-case scenario where all product loading is done at the truck loadout and are the sum of: (1) Losses from loading a maximum of 80 million gallons of product per year, including a maximum of 6.5 million gallons of natural gasoline per year and (2) Combustion emissions from a maximum flare/pilot operation of 8,760 hours per year. Product at this facility includes varying blends of anhydrous ethanol and natural gasoline.

Pollutant: HAP (Total)

Emission Limit(s): 0.44 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-648-S4

⁽¹⁾ HAP emissions are based on the worst-case scenario where all product loading is done at the truck loadout and are the sum of: (1) Losses from loading a maximum of 80 million gallons of product per year, including a maximum of 6.5 million gallons of natural gasoline per year and (2) Combustion emissions from a maximum flare/pilot operation of 8,760 hours per year. Product at this facility includes varying blends of anhydrous ethanol and natural gasoline.

NSPS Applicability

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

Authority for Requirement: DNR Construction Permit 04-A-648-S4

Operational Limits with Associated Monitoring and Recordkeeping

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

Equipment Operation and Throughput Limits Requirements

- A. 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 Number 24-01-007 for "VOC Emissions from Equipment Leaks."
- B. The owner or operator shall only receive natural gasoline to be used as an ingredient or denaturant in the fuel ethanol product loaded out at Plant Number 24-01-007.
 - i. The owner or operator shall maintain on-site natural gasoline purchase records.
- C. The total amount of fuel ethanol product loaded out at Plant Number 24-01-007 shall not exceed 80 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 this 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 this facility on a rolling 12-month basis.
- D. The total amount of natural gasoline loaded out at Plant Number 24-01-007 shall not exceed 6.5 million gallons per rolling twelve-month period.
 - i. The owner or operator shall record the total amount of natural gasoline, in gallons, loaded out at Plant Number 24-01-007 on a monthly basis.
 - ii. The owner or operator shall calculate and record the total amount of natural gasoline, in gallons, loaded out at Plant Number 24-01-007 on a rolling 12-month basis.

Control Equipment Requirements

- A. The owner or operator shall operate each flare (CE-C22 and CE-C23) at all times when emissions are vented to it.
- B. Each flare (CE-C22 and CE-C23) shall be designed for and operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.
- C. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.
- D. The owner or operator shall continuously verify the output of the flame detection system indicating the presence of a flame, while loading.
- E. The owner or operator shall be allowed to operate the flare pilot light for 8,760 hours per year.
- F. The owner or operator shall inspect and maintain the control equipment described in this "Collection of Air Permits" 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 control equipment described in this "Collection of Air Permits." At a minimum, this log shall include:
 1. The date that any inspection and/or maintenance was performed on the control equipment;

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

Authority for Requirement: DNR Construction Permit 04-A-648-S4

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): 1,000

Exhaust Temperature (°F): 1600

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 04-A-648-S4

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Operational Limits with Associated Monitoring and Recordkeeping described above are CAM equivalent.

Authority for Requirement: DNR Construction Permit 04-A-648-S4
567 IAC 22.108(3)

Emission Point ID Number: EP S23

Associated Equipment

Associated Emission Unit ID Numbers: P54
Emissions Control Equipment ID Number: CE-C23
Emissions Control Equipment Description: Flare
Continuous Emissions Monitors ID Numbers: None

Emission Units vented through these Emission Points: P54
Emission Unit Description: Ethanol Rail Loadout
Raw Material/Fuel: Ethanol
Rated Capacity: 6.1 MMBtu/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-323-S4
567 IAC 23.3(2)"d"

⁽¹⁾ Except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours, each flare (CE-C22 and CE-C23) shall operate with no visible emissions. Therefore, outside of these periods, an exceedance of the indicator opacity of "no visible emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-323-S4
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppm_v

Authority for Requirement: DNR Construction Permit 06-A-323-S4
567 IAC 23.3(3) "e"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 2.89 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-323-S4

⁽¹⁾ It is based on the worst-case scenario where all product loading is done at the truck loadout and a maximum flare/pilot operation of 8,760 hours per year.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 4.12 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-323-S4

⁽¹⁾VOC emissions are based on the worst-case scenario where all product loading is done at the truck loadout and are the sum of: (1) Losses from loading a maximum of 80 million gallons of product per year, including a maximum of 6.5 million gallons of natural gasoline per year and (2) Combustion emissions from a maximum flare/pilot operation of 8,760 hours per year. Product at this facility includes varying blends of anhydrous ethanol and natural gasoline.

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 4.86 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-323-S4

⁽¹⁾It is based on the worst-case scenario where all product loading is done at the truck loadout and a maximum flare/pilot operation of 8,760 hours per year.

Pollutant: HAP (single)

Emission Limit(s): 0.39 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-323-S4

⁽¹⁾ HAP emissions are based on the worst-case scenario where all product loading is done at the truck loadout and are the sum of: (1) Losses from loading a maximum of 80 million gallons of product per year, including a maximum of 6.5 million gallons of natural gasoline per year and (2) Combustion emissions from a maximum flare/pilot operation of 8,760 hours per year. Product at this facility includes varying blends of anhydrous ethanol and natural gasoline.

Pollutant: HAP (Total)

Emission Limit(s): 0.44 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-323-S4

⁽¹⁾ HAP emissions are based on the worst-case scenario where all product loading is done at the truck loadout and are the sum of: (1) Losses from loading a maximum of 80 million gallons of product per year, including a maximum of 6.5 million gallons of natural gasoline per year and (2) Combustion emissions from a maximum flare/pilot operation of 8,760 hours per year. Product at this facility includes varying blends of anhydrous ethanol and natural gasoline.

NSPS Applicability

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

Authority for Requirement: DNR Construction Permit 06-A-323-S4

Operational Limits with Associated Monitoring and Recordkeeping

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

Equipment Operation and Throughput Limits Requirements

- A. 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 Number 24-01-007 for "VOC Emissions from Equipment Leaks."
- B. The owner or operator shall only receive natural gasoline to be used as an ingredient or denaturant in the fuel ethanol product loaded out at Plant Number 24-01-007.
 - i. The owner or operator shall maintain on-site natural gasoline purchase records.
- C. The total amount of fuel ethanol product loaded out at Plant Number 24-01-007 shall not exceed 80 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 this 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 this facility on a rolling 12-month basis.
- D. The total amount of natural gasoline loaded out at Plant Number 24-01-007 shall not exceed 6.5 million gallons per rolling twelve-month period.
 - i. The owner or operator shall record the total amount of natural gasoline, in gallons, loaded out at Plant Number 24-01-007 on a monthly basis.
 - ii. The owner or operator shall calculate and record the total amount of natural gasoline, in gallons, loaded out at Plant Number 24-01-007 on a rolling 12-month basis.

Control Equipment Requirements

- A. The owner or operator shall operate each flare (CE-C22 and CE-C23) at all times when emissions are vented to it.
- B. Each flare (CE-C22 and CE-C23) shall be designed for and operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.
- C. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.
- D. The owner or operator shall continuously verify the output of the flame detection system indicating the presence of a flame, while loading.
- E. The owner or operator shall be allowed to operate the flare pilot light for 8,760 hours per year.
- F. The owner or operator shall inspect and maintain the control equipment described in this "Collection of Air Permits" 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 control equipment described in this "Collection of Air Permits." At a minimum, this log shall include:
 1. The date that any inspection and/or maintenance was performed on the control equipment;

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

Authority for Requirement: DNR Construction Permit 06-A-323-S4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 42

Exhaust Flow Rate (scfm): 1000

Exhaust Temperature (°F): 1600

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 06-A-323-S4

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Operational Limits with Associated Monitoring and Recordkeeping described above are CAM equivalent.

Authority for Requirement: DNR Construction Permit 06-A-323-S4
567 IAC 22.108(3)

Emission Point ID Number: EP F15

Associated Equipment

Associated Emission Unit ID Numbers: F15
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: F15
Emission Unit Description: Grain Receiving Fugitives
Raw Material/Fuel: Grain
Rated Capacity: 45,000 bu/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: Fugitive Dust ⁽¹⁾

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

Authority for Requirement: DNR Construction Permit 06-A-810-S1
567 IAC 23.3(2)"c"

⁽¹⁾Opacity (visible emissions) at the lot line shall be 0%.

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.79 tons/yr

Authority for Requirement: DNR Construction Permit 06-A-810-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.78 tons/yr

Authority for Requirement: DNR Construction Permit 06-A-810-S1

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP F20

Associated Equipment

Associated Emission Unit ID Numbers: F20
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: F20
Emission Unit Description: Modified Wet Distillers Grains (MWDGS) Storage Loadout
Raw Material/Fuel: MWDGS
Rated Capacity: 37.6 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: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.74 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 12-A-563

⁽¹⁾Maximum potential emissions from the Modified DGS storage/handling, based on production limit and worst case VOC monitor results of 7.0 ppm for wetcake.

Pollutant: HAP (Total)

Emission Limit(s): 0.13 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 12-A-563

⁽¹⁾Single HAP is estimated to be 0.115 tons per year for acetaldehyde, 0.003 tpy for acrolein, 0.011 tpy for methanol and 0.0001 tpy formaldehyde.

Operational Limits with Associated Monitoring and Recordkeeping

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

Operating Limits

- A. Plant-wide, DDGS/MWDGS production shall not exceed 421,767 tons per rolling twelve (12) month rolling period.

Reporting and Recordkeeping

- A. The owner or operator shall determine the amount of DDGS and MWDGS produced for each month of operation, and determine the cumulative amount of DDGS/MWDGS combined on a rolling-12-month basis for each month of operation.

Authority for Requirement: DNR Construction Permit 12-A-563

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: F70

Associated Equipment

Associated Emission Unit ID Numbers: F70
Emissions Control Equipment ID Number: NA
Emissions Control Equipment Description: None

Emission Unit vented through this Emission Point: F70
Emission Unit Description: Fire Water Pump
Raw Material/Fuel: Diesel
Rated Capacity: 300 hp, 14 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: 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 12-A-564
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit: 0.66 lb/hr

Authority for Requirement: DNR Construction Permit 12-A-564

Pollutant: Particulate Matter (PM)

Emission Limit: 0.66 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 12-A-564
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit: 0.62 lb/hr; 500 ppmv

Authority for Requirement: DNR Construction Permit 12-A-564
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit: 9.3 lb/hr

Authority for Requirement: DNR Construction Permit 12-A-564

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit: 0.74 lb/hr
Authority for Requirement: DNR Construction Permit 12-A-564

Pollutant: Carbon Monoxide (CO)
Emission Limit: 2.0 lb/hr
Authority for Requirement: DNR Construction Permit 12-A-564

Operational Limits with Associated Monitoring and Recordkeeping

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

Operating Limits

- A. The unit is limited to operating a maximum of 500 hours per twelve month rolling period.
- B. This engine shall combust diesel fuel with a maximum sulfur content of 0.5% by weight only.

Reporting & Record keeping

- A. At the end of each month, record the total hours of operation over the month of the unit.
- B. At the end of each month, record the total hours of operation over the previous twelve (12) months.
- C. The owner or operator shall either test the sulfur content of each diesel delivery or else have the fuel supplier certify the sulfur content for each delivery.

Authority for Requirement: DNR Construction Permit 12-A-564

NESHAP Applicability

This 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)(iii) this compression ignition emergency engine, located at an area 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.

Fuel Requirements

No requirements except (beginning January 1, 2015) if you own or operate an existing emergency compression ignited stationary engine with a site rating of more than 100 bhp and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), you must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel. Those requirements include a maximum sulfur content of 15 ppm

(0.0015%) by weight and a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume. 40 CFR 63.6604(b).

Operation and Maintenance Requirements 40 CFR 63.6603, 63.6625, 63.6640 and Tables 2d 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, emergency demand response 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, emergency demand response and periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. 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 and emergency demand response. Except as provided in 40 CFR 63.6640(f)(4)(i) and (ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, 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 2d 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 2d. (See Footnote 2 of Table 2d 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): 9.5

Stack Opening (inches, dia.): 5

Exhaust Flow Rate (acfm): 1740

Exhaust Temperature (°F): 770

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 12-A-564

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP F80

Associated Equipment

Associated Emission Unit ID Numbers: F80
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: F80
Emission Unit Description: Cooling Tower
Raw Material/Fuel: Water
Rated Capacity: 1,280,000 gal/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40%
Authority for Requirement: DNR Construction Permit 06-A-324
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM₁₀)
Emission Limit: 5.84 tons/yr⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-324
⁽¹⁾PM and PM₁₀ are assumed to be equivalent. The maximum potential to emit (PTE) for each pollutant is based on a Total Dissolved Solids (TDS) concentration of 2500 ppm.

Pollutant: Particulate Matter (PM)
Emission Limit(s): 5.84 tons/yr⁽¹⁾ ; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-324
567 IAC 23.3(2)"a"
⁽¹⁾PM and PM₁₀ are assumed to be equivalent. The maximum potential to emit (PTE) for each pollutant is based on a Total Dissolved Solids (TDS) concentration of 2500 ppm.

Operational Limits with Associated Monitoring and Recordkeeping

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

Operating Limits

A. The Total Dissolved Solids (TDS) Concentration in the cooling water shall not exceed 2,500

mg/l for any single sampling event.

Reporting and Recordkeeping

A. The performance testing on the Total Dissolved Solids (TDS) concentration shall be completed at a minimum of once per calendar month.

Authority for Requirement: DNR Construction Permit 06-A-324

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 36

Stack Opening (inches, dia.): 300

Exhaust Flow Rate (acfm): 1,560,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 06-A-324

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP F100

Associated Equipment

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

Emission Unit vented through this Emission Point: EU F100
Emission Unit Description: Haul Roads
Raw Material/Fuel: Fugitive Dust
Rated Capacity: 10 VMT/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): ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-325-S5
567 IAC 23.3(2)"c"(1)

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 35.13 tons/yr ⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-325-S5

⁽²⁾ Particulate emission limit based on an average vehicle weight of 27.5 tons, silt content of 3.0 grams per square meter, maximum of 1.5 miles per truck trip, and the vehicle miles traveled during a 12-month rolling period. PM emission limit established to reduce potential emissions of the facility.

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 7.03 tons/yr ⁽³⁾

Authority for Requirement: DNR Construction Permit 06-A-325-S5

⁽³⁾ Particulate emission limit based on an average vehicle weight of 27.5 tons, silt content of 3.0 grams per square meter, maximum of 1.5 miles per truck trip, and the vehicle miles traveled during a 12-month rolling period. PM emission limit established to reduce potential emissions of the facility.

Operational Limits with Associated Monitoring and Recordkeeping

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

Operating Limits

- A. The haul roads shall be paved prior to receiving grain at the facility.
- B. Truck traffic on the haul road shall not exceed 10 mph. The speed limit shall be posted on the haul road.
- C. Any spills on the road shall be cleaned up immediately.
- D. Truck traffic emissions on the paved road shall be controlled by water flushing and sweeping [except as noted below] once per day.
 - a. If water flushing followed by sweeping cannot be accomplished because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35⁰ F (1.7⁰ C) only sweeping is required. Water flushing and sweeping is not required for days of inclement weather.
 - b. Water flushing and sweeping need not occur when a rain gauge located at the site indicates that at least 0.2 inches of precipitation (water equivalent) has occurred within the preceding 24-hr time period or the paved road(s) will not be used on a given day.
 - c. Water flushing and sweeping need not occur if the plant does not receive any truck traffic that day (i.e. on a weekend).
- E. Silt load performance testing shall be required if the facility fails to record whether or not water flushing and sweeping was completed for three (3) consecutive days or for more than 36 days in any year. At that time, silt load performance testing shall be conducted quarterly. Testing shall be completed prior to water flushing and sweeping for that day. Provided the results demonstrate compliance with the PM & PM₁₀ ton per year emission limits, reduced frequency of testing may be requested after an additional 8 performance tests (i.e., 2 years of testing) have been completed.
- F. The PM and PM₁₀ emissions shall not exceed the emission limits in this permit per rolling twelve month period. Based on the total number of trucks the average Vehicle Miles Traveled (VMT) per truck shall be calculated for that month.

Reporting and Recordkeeping

- A. Record the frequency of water flushing and sweeping performed on the haul roads. If the roads are not swept due to weather, a written record must be kept on site outlining the conditions.
- B. If the facility fails to record the haul road management practices above, 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 water flushing and sweeping.
- C. The plant shall maintain a log for the haul roads that show the following:
 - a. The vehicle miles traveled (VMT) per truck and number of vehicles used to determine the VMT for that month;

- b. Each day record whether or not water flushing and sweeping was accomplished. For days without water flushing and sweeping, record the circumstances (i.e. weather condition, equipment malfunction);
 - c. The amount of water applied and the areas treated; and,
 - d. The operator's initials.
- D. The owner/operator shall record the number of trucks that load/unload material on a monthly basis, and calculate and record the 12-month rolling total. If the average VMT per truck exceeds 1.5 miles, and/or the maximum number of trucks (i.e., total number of trips) used to transport material to or from the facility exceeds 53,317 trucks per rolling 12-month period, the owner or operator shall calculate and update the PM and PM₁₀ twelve month rolling total emissions on a monthly basis using AP-42 Section 13.2.1 equation 2. The silt load used in the calculations shall be that measured in the last silt load test, or shall assumed to be 3.0 grams per square meter if the last silt load test is more than 4 months old.

Authority for Requirement: DNR Construction Permit 06-A-325-S5

Monitoring Requirements

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

- | | | |
|---|------------------------------|--|
| Agency Approved Operation & Maintenance Plan Required? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| Facility Maintained Operation & Maintenance Plan Required? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| Compliance Assurance Monitoring (CAM) Plan Required? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP F110

Associated Equipment

Associated Emission Unit ID Numbers: F110
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: Leak Detection and Repair (LDAR)
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: F110
Emission Unit Description: VOC Emissions
Raw Material/Fuel: VOC
Rated Capacity: NA

Applicable Requirements

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

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

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 9.54 tons/yr
Authority for Requirement: DNR Construction Permit 07-A-1541-S2

Pollutant: Acetaldehyde
Emission Limit(s): 0.005 tons/yr
Authority for Requirement: DNR Construction Permit 07-A-1541-S2

Pollutant: Total HAP
Emission Limit(s): 0.38 tons/yr
Authority for Requirement: DNR Construction Permit 07-A-1541-S2

NSPS Applicability

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

Authority for Requirement: DNR Construction Permit 07-A-1541-S2

Operational Limits with Associated Monitoring and Recordkeeping

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

Operating Limits

- A. The owner or operator shall comply with all applicable requirements in 40 CFR Part 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* [§60.480 - §60.489].
- B. The owner or operator shall determine the facility’s VOC emissions over the previous month using 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).
- C. The owner or operator shall determine the facility’s HAP emissions over the previous month using the HAP content of the LDAR regulated process streams multiplied by the VOC emissions calculated in Operating Limits A.
- D. At the end of the following month, record the total VOC and HAP emissions over the previous month by adding the emission totals for each section as determined in Operating Limits A and B.
- E. At the end of the following month, record the total VOC and HAP emissions over the previous twelve (12) months as determined in Operating Limits C.
- F. The owner or operator shall comply with the applicable recordkeeping and reporting requirements in §60.486 and §60.487, respectively.

Authority for Requirement: DNR Construction Permit 07-A-1541-S2

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP GD2

Associated Equipment

Associated Emission Unit ID Numbers: GD2
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: GD2
Emission Unit Description: Grain Drying
Raw Material/Fuel: Grain; Natural Gas
Rated Capacity: 5000 bu/hr; 69.9 MMBtu/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-809-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 7.82 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-809-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 31.14 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-809-S2
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 0.04 lb/hr; 500 ppm_v

Authority for Requirement: DNR Construction Permit 06-A-809-S2
567 IAC 23.3(3)

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 6.09 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-809-S2

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.33 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-809-S2

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 5.2 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-809-S2

Pollutant: Total HAP
Emission Limit(s): 0.34 tons/yr ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-809-S2

⁽¹⁾Estimated hexane emissions are 0.33 tpy, formaldehyde emissions are 0.014 tpy, and all other single HAP emissions are estimated to be less than 0.001 tpy.

Operational Limits with Associated Monitoring and Recordkeeping

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

Operating Limits

- A. The unit is limited to operating a maximum of 6,000 hours per twelve month rolling period.

Reporting and Recordkeeping

- A. At the end of each month, record the total hours of operation over the month of the unit.
- B. At the end of each month, record the total hours of operation over the previous twelve (12) months.

Authority for Requirement: DNR Construction Permit 06-A-809-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 48.5 – center of exhaust

Stack Opening (sq. ft.): 460 and 663

Exhaust Flow Rate (scfm): 282,000

Exhaust Temperature (°F): 120

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 06-A-809-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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP T61 and EP T62

Associated Equipment

Associated Emission Unit ID Numbers: T61, T62
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: Internal Floating Roof
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: T61, T62
Emission Unit Description: Denatured Ethanol Storage Tank
Raw Material/Fuel: Denatured Ethanol
Rated Capacity: 750,000 gallons each

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-649, 04-A-650
567 IAC 23.3(2)"d"

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.24 tons/yr

Authority for Requirement: DNR Construction Permit 04-A-649, 04-A-650

Pollutant: Single HAP

Emission Limit(s): 9.4 tons/yr ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-649, 04-A-650

⁽¹⁾Plant-wide limit, to remain minor for Title V and 112 (g).

Pollutant: Total HAP

Emission Limit(s): 24.4 tons/yr ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-649, 04-A-650

⁽¹⁾ Plant-wide limit, to remain minor for Title V and 112 (g).

Operational Limits with Associated Monitoring and Recordkeeping

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

Operating Limits

- A. The 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

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

Authority for Requirement: DNR Construction Permit 04-A-649, 04-A-650

NSPS Applicability

The emission units are subject to the requirements/conditions of Subpart A – *General Provisions*, Subpart Kb – *Standards of Performance for Volatile Organic Liquid Storage Vessels* and Subpart VV – *Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry*.

Authority for Requirement: DNR Construction Permit 04-A-649, 04-A-650
567 IAC 22.108(3)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 61.7

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (acfm): NA – vent

Exhaust Temperature (°F): Ambient

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 04-A-649, 04-A-650

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP T63

Associated Equipment

Associated Emission Unit ID Numbers: T63
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: Internal Floating Roof
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: T63
Emission Unit Description: 200 Proof Ethanol Storage Tank
Raw Material/Fuel: Ethanol
Rated Capacity: 100,000 gallons

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-651
567 IAC 23.3(2)"d"

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.30 tons/yr

Authority for Requirement: DNR Construction Permit 04-A-651

Pollutant: Single HAP

Emission Limit(s): 9.4 tons/yr ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-651

⁽¹⁾Plant-wide limit, to remain minor for Title V and 112 (g).

Pollutant: Total HAP

Emission Limit(s): 24.4 tons/yr ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-651

⁽¹⁾Plant-wide limit, to remain minor for Title V and 112 (g).

Operational Limits with Associated Monitoring and Recordkeeping

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

Operating Limits

- A. The 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

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

Authority for Requirement: DNR Construction Permit 04-A-651

NSPS Applicability

The emission units are subject to the requirements/conditions of Subpart A – *General Provisions*, Subpart Kb – *Standards of Performance for Volatile Organic Liquid Storage Vessels* and Subpart VV – *Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry*.

Authority for Requirement: DNR Construction Permit 04-A-651
567 IAC 22.108(3)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35.3

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (acfm): NA - vent

Exhaust Temperature (°F): Ambient

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 04-A-651

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP T64

Associated Equipment

Associated Emission Unit ID Numbers: T64
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: Internal Floating Roof
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: T64
Emission Unit Description: Denaturant Storage Tank
Raw Material/Fuel: Denaturant
Rated Capacity: 100,000 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: Single HAP
Emission Limit(s): 9.4 tons/yr ⁽¹⁾
Authority for Requirement: DNR Construction Permit 04-A-652-S1
⁽¹⁾Plantwide limit, to remain minor for Title V and 112 (g).

Pollutant: Total HAP
Emission Limit(s): 24.4 tons/yr ⁽¹⁾
Authority for Requirement: DNR Construction Permit 04-A-652-S1
⁽¹⁾Plant-wide limit, to remain minor for Title V and 112 (g).

Operational Limits with Associated Monitoring and Recordkeeping

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

Operating Limits

A. The permit holder, owner and operator of the facility shall follow the applicable standards of Subpart Kb, 40 CFR 60.110b through 40 CFR 60.117b.

Reporting and Recordkeeping

A. The permit holder, owner and operator of the facility shall follow the applicable recordkeeping and reporting standards as required in 40 CFR 60.115b through 40 CFR 60.116b.

B. The permit holder, owner and operator of the facility 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 04-A-652-S1

NSPS Applicability

The emission units are subject to the requirements/conditions of Subpart A – *General Provisions*, Subpart Kb – *Standards of Performance for Volatile Organic Liquid Storage Vessels* and Subpart VV – *Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry*.

Authority for Requirement: DNR Construction Permit 04-A-652-S1
567 IAC 22.108(3)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35.3

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (acfm): NA - vent

Exhaust Temperature (°F): Ambient

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 04-A-652-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP T65

Associated Equipment

Associated Emission Unit ID Numbers: T65
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: Internal Floating Roof
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: T65
Emission Unit Description: 190 Proof Ethanol Storage Tank
Raw Material/Fuel: Ethanol
Rated Capacity: 100,000 gallons

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 04-A-653
567 IAC 23.3(2)"d"

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

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.34 tons/yr
Authority for Requirement: DNR Construction Permit 04-A-653

Pollutant: Single HAP
Emission Limit(s): 9.4 tons/yr ⁽¹⁾
Authority for Requirement: DNR Construction Permit 04-A-653
⁽¹⁾ Plant-wide limit, to remain minor for Title V and 112 (g).

Pollutant: Total HAP
Emission Limit(s): 24.4 tons/yr ⁽¹⁾
Authority for Requirement: DNR Construction Permit 04-A-653
⁽¹⁾ Plant-wide limit, to remain minor for Title V and 112 (g).

Operational Limits with Associated Monitoring and Recordkeeping

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

Operating Limits

- A. The 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

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

Authority for Requirement: DNR Construction Permit 04-A-653

NSPS Applicability

The emission units are subject to the requirements/conditions of Subpart A – *General Provisions*, Subpart Kb – *Standards of Performance for Volatile Organic Liquid Storage Vessels* and Subpart VV – *Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry*.

Authority for Requirement: DNR Construction Permit 04-A-653
567 IAC 22.108(3)

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35.3

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (acfm): NA - vent

Exhaust Temperature (°F): Ambient

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 04-A-653

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

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

G1. Duty to Comply

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

G2. Permit Expiration

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

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

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

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

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

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

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

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

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

G10. Recordkeeping Requirements for Compliance Monitoring

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

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

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

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

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

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

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

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

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

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

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. 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.*567 IAC 22.110(1)*
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

2. Minor Title V Permit Modification.

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

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

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

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

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 substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

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

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

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

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

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

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

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

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

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

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

permit.

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

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

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

G25. Permit Shield

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

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

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

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

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

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

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

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

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

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

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

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

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

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

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

G31. Prevention of Air Pollution Emergency Episodes

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

567 IAC 26.1(1)

G32. Contacts List

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

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

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
502 E. 9th Street
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

Wallace State Office Building
502 E. 9th Street
Des Moines, IA 50319-0034
(515) 725-0268

Field Office 6

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

Polk County Public Works Dept.

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

Linn County Public Health

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

V. Appendix

40 CFR 60 Subpart A – *General Provisions*

<https://www.law.cornell.edu/cfr/text/40/part-60/subpart-A>

40 CFR 60 Subpart Db – Standards of Performance for *Industrial-Commercial-Institutional Steam Generating Units*

<https://www.law.cornell.edu/cfr/text/40/part-60/subpart-Db>

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.law.cornell.edu/cfr/text/40/part-60/subpart-Kb>

40 CFR 60 Subpart VV – Standards of Performance for *Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry*.

<https://www.law.cornell.edu/cfr/text/40/part-60/subpart-VV>

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

<https://www.law.cornell.edu/cfr/text/40/part-63/subpart-ZZZZ>

40 CFR Part 63, Subpart JJJJJ – National Emission Standards for Hazardous Air Pollutants for *Industrial, Commercial, and Institutional Boilers Area Source*

<https://www.law.cornell.edu/cfr/text/40/part-63/subpart-JJJJJ>