

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

Name of Permitted Facility: Green Plains LLC – Superior

Facility Location: 1495 320th Ave., Superior, IA 50360

Air Quality Operating Permit Number: 13-TV-005

Expiration Date: August 18, 2018

Permit Renewal Application Deadline: February 18, 2018

EIQ Number: 92-6954

Facility File Number: 30-08-002

Responsible Official

Name: Mr. Tod Smith

Title: Plant Manager

Mailing Address: 1495 320th Avenue, Superior, IA 51360

Phone #: (712) 858-4666

Permit Contact Person for the Facility

Name: Mr. Fred Hutson

Title: EHSS Manager

Mailing Address: 1495 320th Avenue, Superior, IA 51360

Phone #: (712) 858-4666 ext 1216

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

For the Director of the Department of Natural Resources

Lori Hanson

Supervisor of Air Operating Permits Section

Date

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Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
CE	control equipment
CEM.....	continuous emission monitor
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP	emission point
EU	emission unit
gr./dscf	grains per dry standard cubic foot
gr./100 cf.....	grains per one hundred cubic feet
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
NSPS	new source performance standard
NESHAP	National Emission Standards for Hazardous Air Pollutants
ppmv	parts per million by volume
lb./hr	pounds per hour
lb./MMBtu	pounds per million British thermal units
SCC	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC	Standard Industrial Classification
TPY	tons per year
USEPA.....	United States Environmental Protection Agency

Pollutants

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

I. Facility Description and Equipment List

Facility Name: Green Plains LLC – Superior

Permit Number: 13-TV-005

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

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP-SV01	EU-01	Truck Dump Pit	06-A-459-S1
	EU-02	Rail Dump Pit	
	EU-03	Corn Conveyor #1	
	EU-04	Corn Elevator #1	
	EU-05	Corn Conveyor #2	
	EU-06	Corn Elevator #2	
EP-SV02	EU-11	Corn Conveyor #3	
EP-SV02	EU-08	Corn Bin #1	06-A-460-S1
EP-SV05	EU-07	Scalper	06-A-463-S2
	EU-10	Surge Bin	
	EU-12	Hammermill #1	
	EU-13	Hammermill #2	
EP-SV07	EU-16	Yeast Tank	06-A-465-S2
	EU-17	Fermenter #1	
	EU-18	Fermenter #2	
	EU-19	Fermenter #3	
	EU-43	Fermenter #4	
EP-SV08	EU-20	Beerwell	06-A-466-S2
	EU-14	Slurry Tank	
	EU-15	Liquefaction Tank	
	EU-21	Beer Stripper	
	EU-22	Side Stripper	
	EU-23	Rectifier Column	
	EU-24	Molecular Sieve	
	EU-25	Evaporator	
	EU-26	Whole Stillage Tank	
	EU-27	Centrate Stillage Tank	
	EU-28	Centrifuge #1	
	EU-29	Centrifuge #2	
	EU-30	Centrifuge #3	
	EU-31	Centrifuge #4	
EU-32	Syrup Tank		
EP-SV09	EU-38	200 Proof Condenser	
EP-SV09	EU-33	DDGS Dryer	06-A-467-S3

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
	EU-34	DDGS Cooler	
EP-SV10	EU-35	DDGS Handling	06-A-468-S2
	EU-36	DDGS Rail Loadout	
	EU-37	DDGS Truck Loadout	
EP-SV11	EU-B01	Boiler #1	06-A-469-S2
EP-SV12	EU-B02	Boiler #2	06-A-470-S2
EP-SV14	EU-39	Ethanol Truck Loadout	11-A-707
	EU-40	Ethanol Rail Loadout	
	CE-C12	Flare	
EP-SV15	EU-B04	Fire Pump	11-A-708
EP-SV16	EU-42	Lime Silo	11-A-709
EP-SV18	EU-34	DDGS Cooler By-pass	11-A-710-S1
EP-FS02	EU-FS02	Cooling Tower	06-A-472
EP-FS05	EU-FS05	VOC Emissions from Equipment Leaks	06-A-473-S1
EP-FS06	EU-FS06	Truck Traffic	06-A-474-S1
EP-TK001	EU-TK001	200 Proof Ethanol Storage Tank	06-A-475-S1
EP-TK002	EU-TK002	200 Proof Ethanol Storage Tank	06-A-476-S1
EP-TK003	EU-TK003	Denaturant Storage Tank	06-A-477-S1
EP-TK004	EU-TK004	Denatured Ethanol Storage Tank	06-A-478-S1
EP-TK005	EU-TK005	Denatured Ethanol Storage Tank	06-A-479-S1

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
NA	Parts Washer1
TK-7704	Ammonia Tank (19,744 gal)
TK-7702	Sulfuric Acid Tank (6,893 gal)
TK-D1	Diesel Tank (550 gal)
TK-FP1	Diesel Tank (650 gal)
TK-7901	Corn Oil Storage Tank (63,174 gal)
NA	Corn Oil Loadout
NA	Parts Washer2
NA	Natural Gas Space Heating (7 Units)

II. Plant-Wide Conditions

Facility Name: Green Plains LLC – Superior
Permit Number: 13-TV-005

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

Permit Duration

The term of this permit is: Five Years form permit issuance
Commencing on: August 19, 2013
Ending on: August 18, 2018

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

Emission Limits

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

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

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

Particulate Matter:

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

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

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

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

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

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-SV07, EP-SV08, EP-SV11, EP-SV12, EP-TK001, EP-TK002, EP-TK003, EP-TK004, EP-TK005 and EP-SV15

See Appendix for the link of the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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

40 CFR 60 Subpart Dc Requirements

This facility is subject to Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. The affected units are EP-SV11 and EP-SV12.

See Appendix for the link of the Standard.

Authority for Requirements: 40 CFR 60 Subpart Dc
567 IAC 23.1(2) "III"

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-TK001, EP-TK002, EP-TK003, EP-TK004 and EP-TK005.

See Appendix for the link of 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 for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006. The affected units are EP-SV07, EP-SV08, EP-TK001, EP-TK002, EP-TK003, EP-TK004 and EP-TK005.

See Appendix for the link of the Standard.

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

40 CFR 60 Subpart IIII Requirements

This facility is subject to Standards of Performance for Stationary Compression Ignition Internal Combustion [40 CFR Part 60 Subpart IIII]. The affected unit is EP-SV15.

See Appendix for the link of the Standard.

Authority for Requirements: 40 CFR 60 Subpart IIII

40 CFR 63 Subpart ZZZZ Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ]. The affected unit is EP-SV15.

See Appendix for the link of the Standard.

Authority for Requirements: 40 CFR 63 Subpart ZZZZ

III. Emission Point-Specific Conditions

Facility Name: Green Plains LLC – Superior

Permit Number: 13-TV-005

Emission Point ID Number: EP-SV01

Associated Equipment

Associated Emission Unit ID Numbers: see the table below

Emissions Control Equipment ID Number: CE-C01

Emissions Control Equipment Description: Baghouse

Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-SV01	EU-01	Truck Receiving	Grain	71,828 lb/hr
	EU-02	Rail Receiving	Grain	71,828 lb/hr
	EU-03	Corn Conveyor #1	Grain	629,213 ton/yr
	EU-04	Corn Elevator #1	Grain	629,213 ton/yr
	EU-05	Corn Conveyor #2	Grain	629,213 ton/yr
	EU-06	Corn Elevator #2	Grain	629,213 ton/yr
	EU-11	Corn Conveyor #3	Grain	629,213 ton/yr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-459-S1
567 IAC 23.3(2) "d"

⁽¹⁾ If visible emissions are observed other than start-up, shut-down, or malfunction, a stack test maybe required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.60 lb/hr; 4.84 ton/yr ⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-459-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.60 lb/hr; 4.84 ton/yr ⁽²⁾; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-459-S1
567 IAC 23.4(7)

⁽²⁾This limit applies to grain handling, and includes emissions from EP-SV01 and also uncaptured emissions from grain receiving, assuming 20% are not captured and with operating limits on amount of grain received.

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.
- B. A maximum of 22.5 million bushels of corn per twelve month rolling period may be received plant wide.

Reporting and Recordkeeping

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

- A. The owner or operator shall keep records of control equipment inspection and maintenance.
- B. The owner or operator shall keep records of the amount of corn received, and update the twelve month rolling total on a monthly basis.

Authority for Requirement: DNR Construction Permit 06-A-459-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 65

Stack Opening, (inches, dia.): 17.7

Exhaust Flow Rate (scfm): 9,600

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-459-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV02

Associated Equipment

Associated Emission Unit ID Numbers: EU-06
Emissions Control Equipment ID Number: CE-C02
Emissions Control Equipment Description: Spot Filter
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-06
Emission Unit Description: Corn Bin #1
Raw Material/Fuel: Corn
Rated Capacity: 500,000 Bushels Capacity

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-460-S1
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): 0.03 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-460-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.03 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-460-S1
567 IAC 23.4(7)

Operational Limits & Requirements

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

Operating Limits

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

Reporting and Recordkeeping

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

- A. The owner or operator shall keep a log of all inspection and maintenance activities that are undertaken on the control equipment associated with this emission point. This log shall include, but not necessarily be limited to:
 - A1.Date and time the activity took place;
 - A2.Description of any issues identified during an inspection or addressed by maintenance activities;
 - A3.Identification of staff members participating.

Authority for Requirement: DNR Construction Permit 06-A-460-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 92
 Stack Opening: There are 10 vents with total area of 125 square feet
 Exhaust Flow Rate (scfm): Various*
 Exhaust Temperature (°F): Ambient
 Discharge Style: Vertical Obstructed
 Authority for Requirement: DNR Construction Permit 06-A-460-S1

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV05

Associated Equipment

Associated Emission Unit ID Numbers: see the table below
Emissions Control Equipment ID Number: CE-C05
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-SV05	EU-07	Scalper	Grain	10,000 Bushel/hr
	EU-10	Surge Bin	Grain	10,000 Bushels
	EU-12	Hammermill #1	Grain	1,400 Bushel/hr
	EU-13	Hammermill #2	Grain	1,400 Bushel/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-463-S2
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.34 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-463-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.34 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-463-S2
567 IAC 23.3(2) "a"

Operational Limits & Requirements

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

Operating Limits

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

Reporting and Recordkeeping

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

- A. The owner or operator shall keep a log of all inspection and maintenance activities that are undertaken on the control equipment associated with this emission point. This log shall include, but not necessarily be limited to:
 - A1.Date and time the activity took place;
 - A2.Description of any issues identified during an inspection or addressed by maintenance activities;
 - A3.Identification of staff members participating.

Authority for Requirement: DNR Construction Permit 06-A-463-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 60
 Stack Opening, (inches, dia.): 18
 Exhaust Flow Rate (scfm): 9,640
 Exhaust Temperature (°F): Ambient
 Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-463-S2

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

Monitoring Requirements

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

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

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

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV07

Associated Equipment

Associated Emission Unit ID Numbers: see the table below
Emissions Control Equipment ID Number: CE-C07
Emissions Control Equipment Description: CO₂ Scrubber
Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-SV07	EU-16	Yeast Tank	Undistilled Beer	146,000 gallons
	EU-17	Fermenter #1	Undistilled Beer	580,200 gallons
	EU-18	Fermenter #2	Undistilled Beer	580,200 gallons
	EU-19	Fermenter #3	Undistilled Beer	580,200 gallons
	EU-43	Fermenter #4	Undistilled Beer	580,200 gallons
	EU-20	Beerwell	Undistilled Beer	729,400 gallons

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-465-S2
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.04 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-465-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.04 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-465-S2
567 IAC 23.3(2) "a"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 7.5 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-465-S2

Pollutant: Single

Emission Limit(s): 0.35 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-465-S2

Pollutant: Total s

Emission Limit(s): 0.37 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-465-S2

Operational Limits & Requirements

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

Operating Limits

- A. The liquid feed rate to the scrubber shall be maintained at -5% to +25% of the average liquid feed rate observed during the most recent accepted compliance test which demonstrated compliance with all applicable emission limitations. The liquid feed rate is based on a 3 hour block average.
- B. The pressure drop across to the scrubber shall be maintained above 90% of the average pressure drop across the scrubber observed during the most recent accepted compliance test which demonstrated compliance with all applicable emission limitations. The scrubber pressure is based on a 3 hour block average.
- C. Any additive added to the scrubber liquid during the compliance testing to enhance the removal efficiency of the scrubber shall be added at the same or higher rate that it was added for the most recent accepted compliance test which demonstrated compliance with all applicable emission limitations. The additive feed rate is based on a 3 hour block average.

Reporting and Recordkeeping

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

- A. Maintain a copy of the most recent compliance test report which showed compliance with all applicable emission limitations. This report shall include, but not limited to, the emission rates observed during the testing, the average liquid feed rate to the scrubber during the testing, the average pressure drop across the scrubber during the testing, and the additive feed rate during the testing if additives are used.
- B. Install and continually operate a strip chart recorder or other device to continually record the scrubber liquid feed rate.
- C. Install and continually operate a strip chart recorder or other device to continually record the pressure drop across the scrubber.
- D. If an additive to the scrubber liquid is used and it is continually added to the scrubber liquid, install and continually operate a strip chart recorder or other device to continually record the additive feed rate. If an additive to the scrubber liquid is used and it is mixed with the scrubber liquid in a batch operation, record the time each batch is mixed as well as the amount of additive added to the scrubber liquid.

Authority for Requirement: DNR Construction Permit 06-A-465-S2

NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and 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

Authority for Requirement: DNR Construction Permit 06-A-465-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 68

Stack Opening, (inches, dia.): 23.5

Exhaust Flow Rate (scfm): 6,870

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-465-S2

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

Monitoring Requirements

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

Stack Testing:

Pollutant – VOC, Single and Total s

Test Method – see the table below

Pollutant	Frequency	Test Run Time	Test Method
VOC ⁽¹⁾	One-time	1 hour	40 CFR 60, Appendix A, Method 18 or 320
Single ^{(1),(2)}	One-time	1 hour	IDNR approved method
Total ^{(1),(2)}	One-time	1 hour	IDNR approved method

⁽¹⁾: Testing shall be completed within 180 days of construction permit 06-A-465-S2 issuance date (08/13/2012).

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

Authority for Requirement: DNR Construction Permit 06-A-465-S2

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Compliance Assurance Monitoring (CAM) Plan for CO₂ Scrubber (CE-C07)

I. Background

A. Emissions Unit

Facility: Green Plains LLC – Superior
Source ID #: EU-16 (Yeast Tank)
& EU Description: EU-17 (Fermenter #1)
EU-18 (Fermenter #2)
EU-19 (Fermenter #3)
EU-43 (Fermenter #4)
EU-20 (Beerwell)

B. Control Technology

Control Equipment ID: CE-C07
CE Description: Packed Bed CO₂ Wet Scrubber

C. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation #: DNR Construction Permit 06-A-465-S2
Emission Limit: 7.5 lb/hr for VOC
Current Monitoring Requirements:

1. Maintain a copy of the most recent compliance test report which showed compliance with all applicable emission limits.
2. Install and continuously operate a strip chart recorder or other device to continually record the scrubber liquid feed rate.
3. Install and continuously operate a strip chart recorder or other device to continually record the pressure drop across the scrubber.
4. Install and continuously operate a strip chart recorder or other device to continually record the pH of the scrubber liquid.
5. If an additive to the scrubber liquid is used and it is continually added to the scrubber liquid, install and continuously operate a strip chart recorder or other device to continually record the additive feed rate. If an additive to the scrubber liquid is used and it is mixed with the scrubber liquid in a batch operation, record the time each batch is mixed as well as the amount of additive added to the scrubber liquid.

II. Monitoring Approach

A. Indicator:

Water flow rate to the scrubber will be used as an indicator.

B. Monitoring Approach:

The water flow rate will be measured using a flow meter.

C. Indicator Range:

An excursion is defined as a daily scrubber water flow rate recording of less than the amount recorded during the most recent stack test. Excursions trigger an investigation of the occurrence, corrective action and reporting requirements.

D. QIP (Quality Improvement Plan) Threshold (Optional):

The QIP threshold is triggered when there are excursions more than 5% of the operating time in a semi-annual reporting period (January 1 to June 30, or July 1 to December 31), excluding periods of startup, shutdown and malfunction. A deviation shall be reported in the semi-annual report when the QIP threshold is triggered.

E. Performance Criteria:

- | | |
|--|---|
| A. Data Representativeness | The water flow rate measures the inlet water flow rate to the scrubber. Water flow rates less than that recorded during the most recent stack test indicated a potential decrease in VOC removal efficiency of the scrubber. |
| B. Verification of Operational Status | The water flow rate meter was installed, calibrated, and is operated in accordance with manufacturer's recommendations. |
| C. QA/QC Practices and Criteria | <ol style="list-style-type: none">1. The water flow rate meter will be calibrated per manufacturer's recommendations.2. The scrubber will be cleaned and inspected per manufacturer's recommendations. |
| D. Monitoring Frequency and Data Collection Procedures | The scrubber water flow rate will be measured continuously using a data acquisition system and recorded on a daily basis. |
| Averaging Period | A 24-hour average will be calculated and recorded during process operation. |

III. Justification

A. Background:

VOC emissions from the Yeast Tank (EU-16), Fermenters #1~#4 (EU-17, EU-18, EU-19, EU-43) and Beerwell (EU-20) are controlled using a packed bed wet scrubber with single pass water flow. The exhaust from the scrubber is routed to the atmosphere.

B. Rationale for Selection of Performance Indicator:

To comply with the applicable emission limit, a minimum water flow rate must be supplied to the scrubber to absorb a given amount of VOC in the gas stream, given the size of the tower and height of the packed bed. The liquid to gas (L/G) ratio is a key operating parameter of the scrubber. If the L/G ratio decreases below the minimum, sufficient mass transfer of the pollutant from the gas phase to the liquid phase may not occur. Results from stack testing are used as a minimum liquid flow required to maintain the proper L/G ratio at the maximum gas flow and vapor loading through the scrubber. Maintain this minimum liquid flow, even during periods of reduced air flow, will help ensure that the ideal L/G ratio is achieved at all times.

C. Rationale for Selection of Indicator Level:

The minimum water flow rate indicator level was chosen based on stack testing results.

Emission Point ID Number: EP-SV08

Associated Equipment

Associated Emission Unit ID Numbers: see the table below

Emissions Control Equipment ID Number: CE-C08

Emissions Control Equipment Description: Vent Gas Scrubber

Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-SV08	EU-14	Slurry Tank	Undistilled Beer	11,000 gallons
	EU-15	Liquefaction Tank	Undistilled Beer	58,200 gallons
	EU-21	Beer Stripper	Undistilled Beer	26,000 gallons
	EU-22	Side Stripper	Undistilled Beer	10,100 gallons
	EU-23	Rectifier Column	Undistilled Beer	27,400 gallons
	EU-24	Molecular Sieve	Undistilled Beer	5,708 gallons
	EU-25	Evaporator	Undistilled Beer	2,250 gallons
	EU-26	Whole Stillage Tank	Undistilled Beer	138,200 gallons
	EU-27	Centrate Stillage Tank	Undistilled Beer	102,000 gallons
	EU-28	Centrifuge #1	Undistilled Beer	58,400 lb/hr
	EU-29	Centrifuge #2	Undistilled Beer	58,400 lb/hr
	EU-30	Centrifuge #3	Undistilled Beer	58,400 lb/hr
	EU-31	Centrifuge #4	Undistilled Beer	58,400 lb/hr
	EU-32	Syrup Tank	Undistilled Beer	33,000 gal/hr
EU-38	200 Proof Condenser	Undistilled Beer	33,000 gal/hr	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-466-S2
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.04 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-466-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.04 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-466-S2
567 IAC 23.3(2) "a"

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 1.0 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-466-S2

Pollutant: Single
Emission Limit(s): 0.32 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-466-S2

Pollutant: Total s
Emission Limit(s): 0.32 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-466-S2

Operational Limits & Requirements

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

Operating Limits

- A. The liquid feed rate to the scrubber shall be maintained at -5% to +25% of the average liquid feed rate observed during the most recent accepted compliance test which demonstrated compliance with all applicable emission limitations. The liquid feed rate is based on a 3 hour block average.
- B. The pressure drop across to the scrubber shall be maintained above 90% of the average pressure drop across the scrubber observed during the most recent accepted compliance test which demonstrated compliance with all applicable emission limitations. The scrubber pressure is based on a 3 hour block average.
- C. Any additive added to the scrubber liquid during the compliance testing to enhance the removal efficiency of the scrubber shall be added at the same or higher rate that it was added for the most recent accepted compliance test which demonstrated compliance with all applicable emission limitations. The additive feed rate is based on a 3 hour block average

Reporting and Recordkeeping

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

- A. Maintain a copy of the most recent compliance test report which showed compliance with all applicable emission limitations. This report shall include, but is not limited to, the emission rates observed during the testing, the average liquid feed rate to the scrubber during the testing, the average pressure drop across the scrubber during the testing, and the additive feed rate during the testing if additives are used.
- B. Install and continually operate a strip chart recorder or other device to continually record the scrubber liquid feed rate.
- C. Install and continually operate a strip chart recorder or other device to continually record the pressure drop across the scrubber.
- D. If an additive to the scrubber liquid is used and it is continually added to the scrubber liquid, install and continually operate a strip chart recorder or other device to continually record the additive feed rate. If an additive to the scrubber liquid is used and it is mixed

with the scrubber liquid in a batch operation, record the time each batch is mixed as well as the amount of additive added to the scrubber liquid.

Authority for Requirement: DNR Construction Permit 06-A-466-S2

NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and 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

Authority for Requirement: DNR Construction Permit 06-A-466-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 65

Stack Opening, (inches, dia.): 15

Exhaust Flow Rate (scfm): 800

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-466-S2

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

Monitoring Requirements

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

Stack Testing:

Pollutant – VOC, Single and Total s

Test Method – see the table below

Pollutant	Frequency	Test Run Time	Test Method
VOC ⁽¹⁾	One-time	1 hour	40 CFR 60, Appendix A, Method 18 or 320
Single ^{(1),(2)}	One-time	1 hour	IDNR approved method
Total ^{(1),(2)}	One-time	1 hour	IDNR approved method

⁽¹⁾: Testing shall be completed within 180 days of construction permit 06-A-466-S2 issuance date (08/13/2012).

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV09

Associated Equipment

Associated Emission Unit ID Numbers: See the table below

Emissions Control Equipment ID Number: CE-C09; CE-C10; CE-C13

Emissions Control Equipment Description: Multiclones (CE-C09); Regenerative Thermal Oxidizer (CE-C10); Baghouse (CE-C13)

Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-SV09	EU-33	DDGS Dryer	Natural Gas	95 MMBtu/hr
	EU-34	DDGS Cooler	DDGS	23 ton/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-467-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): 7.5 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-467-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 7.5 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-467-S3
567 IAC 23.3(2) "a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 7.06 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-467-S3

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 9.30 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-467-S3

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 8.85 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-467-S3

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 14.5 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-467-S3

Pollutant: Single
Emission Limit(s): 0.43 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-467-S3

Pollutant: Total s
Emission Limit(s): 0.91 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-467-S3

Operational Limits & Requirements

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

Operating Limits

- A. The regenerative thermal oxidizer shall maintain a temperature (3-hour average) during operation of within ± 50 degrees Fahrenheit of the average temperature of the regenerative thermal oxidizer recorded during the most recent performance test which demonstrated compliance with the emission limits.
- B. The DDGS Dryer and the regenerative thermal oxidizer shall combust natural gas and/or process off-gases only.
- C. The Regenerative Thermal Oxidizer shall be operated at all times the DDGS Dryer and the DDGS Cooler are operated.
- D. Maintain the multiclones, DDGS cooler baghouse and the regenerative thermal oxidizer according to manufacturer specifications and maintenance schedule.

Reporting and Recordkeeping

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

- A. The owner and operator shall maintain hourly records of the of the operating temperature of the regenerative thermal oxidizer, and record all three-hour periods (during actual operations) during which the average temperature of the regenerative thermal oxidizer No. 1 (CE-C10) is more than 50 degrees Fahrenheit below the average temperature of the oxidizer during its most recent performance test which demonstrated compliance with the emission limits.
- B. Maintain records of fossil fuels fired in the DDGS dryer and the regenerative thermal oxidizer.
- C. The owner or operator shall keep a log of all inspection and maintenance activities that are undertaken on the control equipment associated with this emission point. This log shall include, but not necessarily be limited to:
 - C1. Date and time the activity took place;
 - C2. Description of any issues identified during an inspection or addressed by maintenance activities;
 - C3. Identification of staff members participating.

Authority for Requirement: DNR Construction Permit 06-A-467-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 91

Stack Opening, (inches, dia.): 66

Exhaust Flow Rate (scfm): 63,600

Exhaust Temperature (°F): 375

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-467-S3

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Compliance Assurance Monitoring (CAM) Plan for Regenerative Thermal Oxidizer

I. Background

A. Emissions Unit

Facility: Green Plains LLC – Superior
 Source ID #: EU-33 (DDGS Dryer)
 & EU Description: EU-34 (DDGS Cooler)

B. Control Technology

Control Equipment ID: CE-C10
 CE Description: Regenerative Thermal Oxidizer

C. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation #: DNR Construction Permit 06-A-467-S3
 Emission Limit: 8.85 lb/hr for VOC
 Current Monitoring Requirements:

1. Maintain hourly records of Regenerative Thermal Oxidizer (RTO) operating temperature, and record all three-hour periods (during actual operations) during which the average temperature of the regenerative thermal oxidizer is more than 50 degrees Fahrenheit below the average temperature of the thermal oxidizer during its most recent performance test which demonstrated compliance with the emission limits.
2. Maintain hourly record of fossil fuel fired in DDGS Dryer and RTO.

II. Monitoring Approach

A. Indicator:

Combustion chamber temperature and annual internal inspection will be used as indicators.

B. Monitoring Approach:

The key elements of the monitoring approach, including the indicators to be monitored, indicator ranges, and performance criteria are presented in Table 1.

Table 1. Monitoring Approach

	Indicator No. 1	Indicator No. 2
I. Indicator	Combustion Chamber Temperature.	Work Practice/Inspection.
Measurement Approach	The temperature measured in the combustion chamber by the continuous temperature monitor (thermocouple)	Inspection and maintenance of the burner to ensure structural integrity and ensure proper operation.
II. Indicator Range	An excursion is defined as 3-hour rolling average temperature reading 50°F less than the average temperature in	An excursion is defined as failure to perform annual inspection or any finding that the structural integrity of the

	the most recent compliance performance test.	incinerator has been jeopardized and it no longer operates as designed.
Correction Action	Each excursion triggers an inspection, corrective action, and a reporting requirement.	Each excursion triggers an assessment of the problem, corrective action, and a reporting requirement.
QIP Threshold	An accumulation of excursions below the indicator range exceeding 5 percent of operating time for a reporting period excluding periods of startup, shutdown and malfunction.	Not applicable.
III. Performance Criteria		
A. Data Representativeness	The sensor is located in the incinerator combustion chamber as an integral part of the incinerator design. The minimum tolerance of the thermocouple is $\pm 4^{\circ}\text{F}$.	Not applicable.
B. Verification of Operational Status	Temperatures recorded electronically.	Inspection records.
C. QA/QC Practices and Criteria	Calibrate, maintain, and operate instrumentation in accordance with manufacturer's recommendation.	Not applicable.
D. Monitoring Frequency	The combustion temperature is measured continuously.	Annual internal inspection of the burner.
Data Collection Procedures	Record chamber temperature continuously on electronic media.	Record results of inspections.
Averaging Period	Three (3) hours rolling average.	Not applicable.
E. Record Keeping	Maintain for a period of 2 years records of electronic media and corrective actions taken in response to excursions.	Maintain for a period of 2 years records of inspections and corrective actions taken in response to excursions.
F. Reporting	Number, duration, and cause of any excursion and the corrective action taken.	Number, duration, and cause of any excursion and the corrective action take.
Frequency	Semiannually.	Semiannually.

III. Justification

A. Background:

VOC emissions from the Dryer (EU-33) and The DDGS Cooler (EU-34) are controlled by the Thermal Oxidizer (CE-C10).

B. Rationale for Selection of Performance Indicator:

The control efficiency achieved by a thermal oxidizer is a function of the combustion chamber temperature. It is expected that by maintaining the operating temperature at or above the minimum chamber temperature, the required level of VOC control efficiency can be expected to be achieved.

The work practice of an annual inspection and tuning of the incinerator burner was selected because an inspection verifies equipment integrity and periodic tuning will maintain proper burner operation and efficiency.

C. Rationale for Selection of Indicator Level:

The minimum operating temperature of the thermal oxidizer is based on the average temperature recorded during the most recent VOC performance testing that demonstrated compliance with permit limits.

Emission Point ID Number: EP-SV10

Associated Equipment

Associated Emission Unit ID Numbers: see the table below

Emissions Control Equipment ID Number: CE-C11

Emissions Control Equipment Description: Baghouse

Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-SV10	EU-35	DDGS Handling	DDGS	45,000 Bushel/hr
	EU-36	DDGS Rail Loadout	DDGS	45,000 Bushel/hr
	EU-37	DDGS Truck Loadout	DDGS	45,000 Bushel/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-468-S2
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.26 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-468-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.26 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-468-S2
567 IAC 23.3(2) "a"

Operational Limits & Requirements

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

Operating Limits

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

Reporting and Recordkeeping

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

- A. The owner or operator shall keep a log of all inspection and maintenance activities that are undertaken on the control equipment associated with this emission point. This log shall include, but not necessarily be limited to:

- A1.Date and time the activity took place;
- A2.Description of any issues identified during an inspection or addressed by maintenance activities;
- A3.Identification of staff members participating.

Authority for Requirement: DNR Construction Permit 06-A-468-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 72

Stack Opening, (inches): 12×12

Exhaust Flow Rate (scfm): 630

Exhaust Temperature (°F): Ambient

Discharge Style: Downwards

Authority for Requirement: DNR Construction Permit 06-A-468-S2

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV11

Associated Equipment

Associated Emission Unit ID Numbers: EU-B01
Emissions Control Equipment ID Number: CE-B01
Emissions Control Equipment Description: Low NO_x Burners
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-B01
Emission Unit Description: Boiler #1
Raw Material/Fuel: Natural Gas
Rated Capacity: 92.1 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-469-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): 0.69 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-469-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.69 lb/hr; 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 06-A-469-S2
567 IAC 23.3(2) "b"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 0.055 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-469-S2

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 5.52 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-469-S2

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.50 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-469-S2

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 3.31 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-469-S2

Pollutant: Single
Emission Limit(s): 0.16 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-469-S2

Pollutant: Total s
Emission Limit(s): 0.17 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-469-S2

Operational Limits & Requirements

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

Operating Limits

- A. This unit shall combust natural gas only.

Reporting and Recordkeeping

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

- A. The owner or operator shall record the amount of each fuel combusted in this unit during each operating day as required by 40 CFR §60.48c(g)(1). As an alternative, the owner or operator may record the amount of each fuel combusted in this unit during each calendar month as allowed in 40 CFR §60.48c(g)(2) or may record the amount of fuel delivered to the facility on a calendar month basis as allowed under 40 CFR §60.48c(g)(3) as long as all other requirements of 40 CFR §60.48c(g)(3) are met.

Authority for Requirement: DNR Construction Permit 06-A-469-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 46
Stack Opening, (inches, dia.): 35.5
Exhaust Flow Rate (scfm): 21,200
Exhaust Temperature (°F): 310
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 06-A-469-S2

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV12

Associated Equipment

Associated Emission Unit ID Numbers: EU-B02
Emissions Control Equipment ID Number: CE-B02
Emissions Control Equipment Description: Low NO_x Burner
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-B02
Emission Unit Description: Boiler #2
Raw Material/Fuel: Natural Gas
Rated Capacity: 92.1 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-470-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): 0.69 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-470-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.69 lb/hr; 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 06-A-469-S2
567 IAC 23.3(2) "b"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 0.055 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-470-S2

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 5.52 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-470-S2

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.50 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-470-S2

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 3.31 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-470-S2

Pollutant: Single
Emission Limit(s): 0.16 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-470-S2

Pollutant: Total s
Emission Limit(s): 0.17 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-470-S2

Operational Limits & Requirements

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

Operating Limits

B. This unit shall combust natural gas only.

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.

B. The owner or operator shall record the amount of each fuel combusted in this unit during each operating day as required by 40 CFR §60.48c(g)(1). As an alternative, the owner or operator may record the amount of each fuel combusted in this unit during each calendar month as allowed in 40 CFR §60.48c(g)(2) or may record the amount of fuel delivered to the facility on a calendar month basis as allowed under 40 CFR §60.48c(g)(3) as long as all other requirements of 40 CFR §60.48c(g)(3) are met.

Authority for Requirement: DNR Construction Permit 06-A-470-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 46
Stack Opening, (inches, dia.): 35.5
Exhaust Flow Rate (scfm): 20,600
Exhaust Temperature (°F): 310
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 06-A-470-S2

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV14

Associated Equipment

Associated Emission Unit ID Numbers: see the table below

Emissions Control Equipment ID Number: CE-12

Emissions Control Equipment Description: Flare

Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-SV14	EU-39	Ethanol Truck Loadout	Ethanol	54,180 gal/hr
	EU-40	Ethanol Rail Loadout	Ethanol	60,000 gal/hr
	CE-C12	Flare	Natural Gas	0.954 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 11-A-707
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 (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 11-A-707
567 IAC 23.3(2) "a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

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

Operational Limits & Requirements

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

Operating Limits

- A. The flare associated with this operation shall be designed and operated according to the specifications outlined in 40 CFR §60.18.
- B. The flare associated with this operation shall be operated at all times when product is being loaded into trucks or railcars.
- C. The amount of denatured ethanol that is loaded out shall not exceed 63,000,000 gallons per twelve (12) month period, rolled monthly.

Reporting and Recordkeeping

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

- A. The owner or operator shall maintain records of the design specifications of the flare associated with this operation.
- B. At the end of each month, record the total amount of denatured ethanol that was loaded into trucks or railcars over the previous month.
- C. At the end of each month, calculate and record the amount of denatured ethanol that was loaded into trucks or railcars over the previous twelve (12) months.

Authority for Requirement: DNR Construction Permit 11-A-707

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35
 Stack Opening, (inches, dia.): 8 (burner tip)
 Exhaust Flow Rate (scfm): 270
 Exhaust Temperature (°F): 700
 Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 11-A-707

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV15

Associated Equipment

Associated Emission Unit ID Numbers: EU-B04
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-B04
Emission Unit Description: Fire Pump
Raw Material/Fuel: Diesel
Rated Capacity: 575 bhp

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 11-A-708
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): 1.23 lb/hr

Authority for Requirement: DNR Construction Permit 11-A-708

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.23 lb/hr

Authority for Requirement: DNR Construction Permit 11-A-708

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 2.5 lb/MMBtu

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

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 17.5 lb/hr

Authority for Requirement: DNR Construction Permit 11-A-708

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 1.39 lb/hr

Authority for Requirement: DNR Construction Permit 11-A-708

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 3.77 lb/hr

Authority for Requirement: DNR Construction Permit 11-A-708

Operational Limits & Requirements

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

Operating Limits

- A. This engine is limited to burning diesel fuel oil only.
- B. This engine is limited to operating a maximum of 100 hours in any rolling 12-month period.
- C. This engine is limited to operating for emergency situations and required testing and maintenance. In accordance with §60.4211(e), the engine is limited to operating a maximum of 100 hours per year for maintenance checks and readiness testing. This engine is not allowed to operate as a peak shaving unit.
- D. In accordance with §60.4207(b), the diesel fuel oil burned in this engine shall meet the following specifications from 40 CFR §80.510(b) for non-road diesel fuel:
 - D1. a maximum sulfur content of 15 ppm (0.0015%) by weight; and
 - D2. a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume.
- E. In accordance with §60.4209(a), the engine shall be equipped with a non-resettable hour meter.
- F. In accordance with §60.4211(a), this engine shall be operated and maintained in accordance with the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the manufacturer. The owner or operator may only change engine settings that are permitted by the manufacturer.

Reporting and Recordkeeping

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

- A. The owner or operator shall maintain the following monthly records:
 - A1. the total number of hours that the engine operated;
 - A2. the number of hours that the engine operated for maintenance checks and readiness testing; and
 - A3. the rolling 12-month total amount of the number of hours that the engine operated.
- B. The owner or operator shall maintain an annual record of the number of hours that the engine operated for maintenance checks and readiness testing.
- C. The owner or operator of the engine shall comply with the requirements of condition D listed above in the Operating Limit section by one of the following methods:
 - C1. have the fuel supplier certify that the fuel delivered meets the definition of non-road diesel fuel as defined in 40 CFR §80.510(b);
 - C2. obtain a fuel analysis from the supplier showing the sulfur content and cetane index or aromatic content of the fuel delivered; or
 - C3. perform an analysis of the fuel to determine the sulfur content and cetane index or aromatic content of the fuel received.

Authority for Requirement: DNR Construction Permit 11-A-708

NSPS and NESHAP Applicability

This emission point is subject to New Source Performance Standard (NSPS) for Stationary Compression Ignition Internal Combustion Engines [40 CFR Part 60 Subpart IIII].

Authority for Requirement: 40 CFR Part 60 Subpart IIII

This emission point is subject to National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NES) [40 CFR Part 63 Subpart ZZZZ].

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 8.5

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 2,900

Exhaust Temperature (°F): 918

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 11-A-708

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV16

Associated Equipment

Associated Emission Unit ID Numbers: EU-42
Emissions Control Equipment ID Number: CE-C14
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-42
Emission Unit Description: Lime Silo
Raw Material/Fuel: Lime
Rated Capacity: 28 ton capacity

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 11-A-709
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): 0.77 lb/hr

Authority for Requirement: DNR Construction Permit 11-A-709

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.77 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 11-A-709
567 IAC 23.3(2) "a"

Operational Limits & Requirements

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

Operating Limits

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

Reporting and Recordkeeping

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

- A. The owner or operator shall keep a log of all inspection and maintenance activities that are undertaken on the control equipment associated with this emission point. This log

shall include, but not necessarily be limited to:

- A1.Date and time the activity took place;
- A2.Description of any issues identified during an inspection or addressed by maintenance activities;
- A3.Identification of staff members participating.

Authority for Requirement: DNR Construction Permit 11-A-709

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 32

Exhaust Flow Rate (scfm): 900

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Obstructed

Authority for Requirement: DNR Construction Permit 11-A-709

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-SV18

Associated Equipment

Associated Emission Unit ID Numbers: EU-34
Emissions Control Equipment ID Number: CE-C13
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-34
Emission Unit Description: DDGS Cooler By-pass
Raw Material/Fuel: DDGS
Rated Capacity: 23 ton/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 11-A-710-S1
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 (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 11-A-710-S1
567 IAC 23.3(2) "a"

Operational Limits & Requirements

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

Operating Limits

- A. Emissions shall only be vented through this emission point when the regenerative thermal oxidizer associated with the DDGS dryer unexpectedly is off line.
- B. Emissions from this unit shall be vented through the DDGS cooler baghouse at all times the cooler is operating.
- C. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.

Reporting and Recordkeeping

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

- A. The owner or operator shall maintain a log of the operation of this emission point. This log shall include, but not necessarily limited to:
 - A1. The date and time by-pass operation of the by-pass began;
 - A2. The duration of the by-pass operation;
 - A3. Description of the reason for by-passing.
- B. The owner or operator shall keep a log of all inspection and maintenance activities that are undertaken on the control equipment associated with this emission point. This log shall include, but not necessarily be limited to:
 - B1. Date and time the activity took place;
 - B2. Description of any issues identified during an inspection or addressed by maintenance activities;
 - B3. Identification of staff members participating.

Authority for Requirement: DNR Construction Permit 11-A-710-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 31

Stack Opening, (inches, dia.): 36

Exhaust Flow Rate (scfm): 12,400

Exhaust Temperature (°F): 100

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 11-A-710-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-FS02

Associated Equipment

Associated Emission Unit ID Numbers: EU-FS02
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-FS02
Emission Unit Description: Cooling Tower
Raw Material/Fuel: Cooling Water
Rated Capacity: 51,120 gal/min

Applicable Requirements

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

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

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 14.01 ton/yr
Authority for Requirement: DNR Construction Permit 06-A-472

Pollutant: Particulate Matter (PM)
Emission Limit(s): 14.01 ton/yr
Authority for Requirement: DNR Construction Permit 06-A-472

Operational Limits & Requirements

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

Operating Limits

- A. The Total Dissolved Solids (TDS) level shall not exceed 2,500 mg/l for any single sampling event.
- B. The owner or operator shall test TDS on a monthly basis.

Reporting and Recordkeeping

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

- A. The owner or operator shall keep records of the results of the monthly TDS testing available.

Authority for Requirement: DNR Construction Permit 06-A-472

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-FS05

Associated Equipment

Associated Emission Unit ID Numbers: EU-FS05
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-FS05
Emission Unit Description: VOC Emissions from Equipment Leaks
Raw Material/Fuel: VOC Fugitive
Rated Capacity: NA

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: DNR Construction Permit 06-A-473-S1
567 IAC 23.3(2) "d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-473-S1
567 IAC 23.3(2) "a"

⁽¹⁾This is the calculated maximum LDAR controlled VOC emissions, as calculated by EPA-453/R-95-017, and based on revised count of components in project 12-198, plus 10% as requested.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 10.09 ton/yr

Authority for Requirement: DNR Construction Permit 06-A-473-S1

Pollutant: Single

Emission Limit(s): 9.4 ton/yr ⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-473-S1

Pollutant: Total s

Emission Limit(s): 24.4 ton/yr ⁽³⁾

Authority for Requirement: DNR Construction Permit 06-A-473-S1

^{(2), (3)}Plant-wide limits.

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall follow the applicable requirements of Subpart VV, 40 CFR §60.480 through 40 CFR §60.489

Reporting and Recordkeeping

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

- A. The owner or operator shall keep records as required in 40 CFR §60.486 and reports as required in 40 CFR §60.487.

Authority for Requirement: DNR Construction Permit 06-A-473-S1

NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart VV – Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry

Authority for Requirement: DNR Construction Permit 06-A-473-S1

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-FS06

Associated Equipment

Associated Emission Unit ID Numbers: EU-FS06
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-FS06
Emission Unit Description: Truck Traffic
Raw Material/Fuel: Fugitive Dust
Rated Capacity: 42,163 VMT/yr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): No Visible Emissions ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-474-S1
567 IAC 23.3(2) "c" (1)

⁽¹⁾Limit applies at the property line.

Pollutant: Particulate Matter (PM)

Emission Limit(s): 40 ton/yr

Authority for Requirement: DNR Construction Permit 06-A-474-S1

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall keep records of the number of trucks that arrive on a monthly basis.
- B. The owner or operator shall test a representative road for silt content once per month, prior to any road cleaning that may be done. After 12 tests, the company may request that the DNR review the results and determine if there is still a need for continued testing.
- C. All plant roads shall be paved.

Reporting and Recordkeeping

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

- A. The owner or operator shall calculate and record the monthly fugitive dust emissions according to the following formula, which uses the equations from AP-42 Section 13.2.2, the PM empirical constants, and assumes a mean vehicle weight of 29 tons and an

average of 1.02 miles per truck delivery or loadout.

$$E = 0.00051 \times V \times (2.4645 \times (\frac{sL}{2})^{0.65} - 0.00047)$$

Where E = tons PM/month

V = number of trucks that month

sL = surface silt loading in g/m2 from that month's test results

- B. The owner or operator shall update monthly the twelve month rolling total PM emissions by adding up the calculated monthly emissions for the previous twelve months, and immediately notify the DNR if the twelve month rolling total exceeds 24.0 tons.

Authority for Requirement: Iowa DNR Construction 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-TK001 and EP-TK002

Associated Equipment

Associated Emission Unit ID Numbers: see the table below
Emissions Control Equipment ID Number: CE-TK001; CE-TK002
Emissions Control Equipment Description: Internal Floating Roof
Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-TK001	EU-TK001	200 Proof Ethanol Storage Tank	200 Proof Ethanol	184,962 gallons
EP-TK002	EU-TK002	200 Proof Ethanol Storage Tank	200 Proof Ethanol	184,962 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: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.20 ton/yr

Authority for Requirement: DNR Construction Permit 06-A-475-S1; 06-A-476-S1

Pollutant: Single

Emission Limit(s): 9.4 ton/yr ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-475-S1; 06-A-476-S1

Pollutant: Total s

Emission Limit(s): 24.4 ton/yr ⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-475-S1; 06-A-476-S1

^{(1), (2)} Plant-wide limits.

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR §60.112b(a)(1) and inspect as required in 40 CFR §60.113b(a).
- B. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR §60.480 through 40 CFR §60.489.
- C. These tanks shall be used to store only 200 proof ethanol.
- D. Plantwide denatured ethanol production shall be limited to a maximum of 63 million gallons per twelve month rolling period.

Reporting and Recordkeeping

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

- A. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of the source.
- B. The owner or operator shall follow the applicable recordkeeping and reporting standards of Subpart Kb, 40 CFR §60.115b through §60.116b.
- C. The owner or operator shall keep records as required in 40 CFR §60.486, and reports as required in 40 CFR §60.487.
- D. The owner or operator shall keep records of the amount of denatured ethanol produced, and update the twelve month rolling total on a monthly basis.

Authority for Requirement: DNR Construction Permit 06-A-475-S1; 06-A-476-S1

NSPS and NESHAP Applicability

These tanks are subject to the following NSPS subparts:

Subpart A – General Provisions

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

Subpart VV – Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry

Authority for Requirement: DNR Construction Permit 06-A-475-S1; 06-A-476-S1

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-TK003

Associated Equipment

Associated Emission Unit ID Numbers: EU-TK003
Emissions Control Equipment ID Number: CE-TK003
Emissions Control Equipment Description: Internal Floating Roof
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-TK003
Emission Unit Description: Denaturant Storage Tank
Raw Material/Fuel: Denaturant
Rated Capacity: 63,415 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: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.72 ton/yr
Authority for Requirement: DNR Construction Permit 06-A-477-S1

Pollutant: Single
Emission Limit(s): 9.4 ton/yr ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-477-S1

Pollutant: Total s
Emission Limit(s): 24.4 ton/yr ⁽²⁾
Authority for Requirement: DNR Construction Permit 06-A-477-S1

^{(1), (2)} Plant-wide limits.

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR §60.112b(a)(1) and inspect as required in 40 CFR §60.113b(a).
- B. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR §60.480 through 40 CFR §60.489.
- C. This tank shall be used to store only denaturant.
- D. Plantwide denatured ethanol production shall be limited to a maximum of 63 million gallons per twelve month rolling period.

Reporting and Recordkeeping

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

- A. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of the source.
- B. The owner or operator shall follow the applicable recordkeeping and reporting standards of Subpart Kb, 40 CFR §60.115b through §60.116b.
- C. The owner or operator shall keep records as required in 40 CFR §60.486, and reports as required in 40 CFR §60.487.
- D. The owner or operator shall keep records of the amount of denatured ethanol produced, and update the twelve month rolling total on a monthly basis.

Authority for Requirement: DNR Construction Permit 06-A-477-S1

NSPS and NESHAP Applicability

This tank is subject to the following NSPS subparts:

Subpart A – General Provisions

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

Subpart VV – Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry

Authority for Requirement: DNR Construction Permit 06-A-477-S1

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-TK004; EP-TK005

Associated Equipment

Associated Emission Unit ID Numbers: EU-TK004; EU-TK005
Emissions Control Equipment ID Number: CE-TK004; CE-TK005
Emissions Control Equipment Description: Internal Floating Roof
Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-TK004	EU-TK004	Denatured Ethanol Storage Tank	Denatured Ethanol	619,217 gallons
EP-TK005	EU-TK005	Denatured Ethanol Storage Tank	Denatured Ethanol	619,217 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: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.17 ton/yr

Authority for Requirement: DNR Construction Permit 06-A-478-S1; 06-A-479-S1

Pollutant: Single

Emission Limit(s): 9.4 ton/yr ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-478-S1; 06-A-479-S1

Pollutant: Total s

Emission Limit(s): 24.4 ton/yr ⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-478-S1; 06-A-479-S1

^{(1), (2)} Plant-wide limits.

Operational Limits & Requirements

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

Operating Limits

- A. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR §60.112b(a)(1) and inspect as required in 40 CFR §60.113b(a).
- B. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR §60.480 through 40 CFR §60.489.
- C. This tank shall be used to store only denatured ethanol.
- D. Plantwide denatured ethanol production shall be limited to a maximum of 63 million gallons per twelve month rolling period.

Reporting and Recordkeeping

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

- A. The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of the source.
- B. The owner or operator shall follow the applicable recordkeeping and reporting standards of Subpart Kb, 40 CFR §60.115b through §60.116b.
- C. The owner or operator shall keep records as required in 40 CFR §60.486, and reports as required in 40 CFR §60.487.
- D. The owner or operator shall keep records of the amount of denatured ethanol produced, and update the twelve month rolling total on a monthly basis.

Authority for Requirement: DNR Construction Permit 06-A-478-S1; 06-A-479-S1

NSPS and NESHAP Applicability

These tanks are subject to the following NSPS subparts:

Subpart A – General Provisions

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

Subpart VV – Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry

Authority for Requirement: DNR Construction Permit 06-A-478-S1; 06-A-479-S1

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

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 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *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 present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS 66219. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

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

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

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

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

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

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

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

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
 - a. The date, place and time of sampling or measurements
 - b. The date the analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses; and
 - f. The operating conditions as existing at the time of sampling or measurement.

- g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
- 2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
- 3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
 - a. Comply with all terms and conditions of this permit specific to each alternative scenario.
 - b. Maintain a log at the permitted facility of the scenario under which it is operating.
 - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

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

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

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

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

2. Excess Emissions Reporting

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

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

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

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

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

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

G15. Permit Deviation Reporting Requirements

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

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

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

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
 - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
 - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
 - d. The changes are not subject to any requirement under Title IV of the Act.
 - e. The changes comply with all applicable requirements.
 - f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), 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 is required to do any of the following:
 - i. Correct typographical errors
 - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
 - iii. Require more frequent monitoring or reporting by the permittee; or
 - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
- b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
- c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Permit Modification.

- a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:
 - i. Do not violate any applicable requirements
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;
 - v. Are not modifications under any provision of Title I of the Act; and
 - vi. Are not required to be processed as significant modification.
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
 - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
 - ii. The permittee's suggested draft permit
 - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and
 - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
- c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee

must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

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

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

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

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
 - b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
 - c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
 - d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

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

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

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

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

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

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

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

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

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

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

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

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

G25. Permit Shield

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

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

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

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

3. A permit shield shall not alter or affect the following:
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
 - d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. 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
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 242-6001

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

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

G31. Prevention of Air Pollution Emergency Episodes

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

567 IAC 26.1(1)

G32. Contacts List

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

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

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 242-5100

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 5

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

Polk County Public Works Dept.

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

Field Office 4

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

Field Office 6

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

Linn County Public Health Dept.

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

V. Appendices

- A. 40 CFR Part 60 Subpart A – General Provisions
<http://www.tceq.state.tx.us/permitting/air/rules/federal/60/a/ahp.html>
- B. 40 CFR Part 60 Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
<http://www.epa.gov/ttn/atw/combust/boiler/cfrdb02.pdf>
- C. 40 CFR Part 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction or Modification Commenced After July 23, 1984
<http://www.tceq.state.tx.us/permitting/air/rules/federal/60/kb/kbhp.html>
- D. 40 CFR Part 60 Subpart VV –Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
<http://www.tceq.state.tx.us/permitting/air/rules/federal/60/vv/vvhp.html>
- E. 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
<http://www.epa.gov/ttn/atw/nsps/cinsps/fr11jy06.pdf>
- F. 40 CFR Part 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE NESHAP)
<http://www.epa.gov/ttn/atw/rice/fr09mr11.pdf>